day following the billing date. Receipt of a fee by the Authority, the General Counsel, the Panel, or the IG, whether processed or not, will stay the accrual of interest.

(g) Advance payments. The Authority, the General Counsel, the Panel, or the IG will not require a requester to make an advance payment, i.e., payment before work is commenced or continued on a request, unless:

(1) The Authority, the General Counsel, the Panel, or the IG estimates or determines that allowable charges that a requester may be required to pay are likely to exceed $250. In those circumstances, the Authority, the General Counsel, the Panel, or the IG will notify the requester of the likely cost and obtain satisfactory assurance of full payment, where the requester has a history of prompt payment of FOIA fees, or require an advance payment of an amount up to the full estimated charges in the case of requesters with no history of payment.

(2) A requester has previously failed to pay a fee charged in a timely fashion (i.e., within 30 days of the date of the billing), in which case the Authority, the General Counsel, the Panel, or the IG requires the requester to pay the full amount owed plus any applicable interest, as provided in this section, or demonstrate that the requester has, in fact, paid the fee, and to make an advance payment of the full amount of the estimated fee before the agency begins to process a new request or a pending request from that requester. When the Authority, the General Counsel, the Panel, or the IG has a reasonable basis to believe that a requester has misrepresented his or her identity in order to avoid paying outstanding fees, it may require that the requester provide proof of identity. When the Authority, the General Counsel, the Panel, or the IG acts under paragraph (g)(1) or (2) of this section, the administrative time limits prescribed in subsection (a)(6) of the FOIA (i.e., 20 working days from receipt of initial requests and 20 working days from receipt of appeals from initial denial, plus permissible extension of these time limits) will begin only after the Authority, the General Counsel, the Panel, or the IG has received fee payments described in this section. If the requester does not pay the advance payment within 30 calendar days after the date of the fee determination, the request will be closed.

(h) When a person other than a party to a proceeding before the FLRA makes a request for a copy of a transcript or recording of the proceeding, the Authority, the General Counsel, the Panel, or the IG, as appropriate, will handle the request under this part.

(j) The fee schedule of this section does not apply to fees charged under any statute that specifically requires the Authority, the General Counsel, the Panel, or the IG to set and collect fees for particular types of records. In instances in which records responsive to a request are subject to a statutorily based fee-schedule program, the Authority, the General Counsel, the Panel, or the IG will inform the requester of the contact information for that program.

§2411.14 Record retention and preservation.

The Authority, the General Counsel, the Panel, and the IG shall preserve all correspondence pertaining to the requests that it receives under this part, as well as copies of all requested records, until such time as disposition or destruction is authorized by title 44 of the United States Code or the National Archives and Records Administration’s General Records Schedule 14. Records will not be disposed of while they are the subject of a pending request, appeal, or lawsuit under the FOIA.

§2411.15 Annual report.

Each year, on or around February 1, as requested by the Department of Justice’s Office of Information Policy, the Chief FOIA Officer of the FLRA shall submit a report of the activities of the Authority, the General Counsel, the Panel, and the IG with regard to public information requests during the preceding fiscal year to the Attorney General of the United States and the Director of the OGIS. The report shall include those matters required by 5 U.S.C. 552(e), and it shall be made available electronically. The Chief FOIA Officer of the FLRA shall make each such report available for public inspection in an electronic format. In addition, the Chief FOIA Officer of the FLRA shall make the raw statistical data used in each report available in a timely manner for public inspection in an electronic format, which shall be available—

(a) Without charge, license, or registration requirement;

(b) In an aggregated, searchable format; and

(c) In a format that may be downloaded in bulk.

Dated: December 20, 2016.
Carol Waller Pope,
Chairman.
[FR Doc. 2016–31121 Filed 1–9–17; 8:45 am]
A link to the docket Web page can be found at http://www.regulations.gov/ #docketDetailId=EEERE-2016-BT-STD-0003. This Web page will contain a link to the docket for this rule on the www.regulations.gov site. The www.regulations.gov Web page will contain simple instructions on how to access all documents, including public comments, in the docket.

For further information on how to review the docket, contact Mr. Nicolas Baker at (202) 586–8215 or by email: nicolas.baker@ee.doe.gov.

**FOR FURTHER INFORMATION CONTACT:**


For information on the availability of this standard at DOE, contact Mr. Cyrus Nasseri at (202) 586–9138, or email Cyrus.nasseri@ee.doe.gov.

This standard is discussed in greater detail in section VI.N of this document.

**Table of Contents**

I. Executive Summary of the Final Rule
II. Introduction
III. Synopsis of the Final Rule
   A. Updated Definition of New Federal Building
   B. Adding Explicit Mention of Mechanical Ventilation Requirements in the 2015 IECC
   C. Expanding the List of Energy End-Uses that must be included in the 30 Percent Savings Calculation
   D. Other Energy Efficiency Requirements
   E. Synopsis of Changes to the IECC

Between the 2009 and 2015 Versions

IV. Compliance Date
V. Reference Resources
   A. Resources for Low-Rise Residential Buildings.
   B. Regulatory Analysis
      A. Review Under Executive Order 12866, “Regulatory Planning and Review”
      B. Administrative Procedure Act
      C. Review Under the Regulatory Flexibility Act
      D. Review Under the Paperwork Reduction Act of 1995
      E. Review Under the National Environmental Policy Act of 1969
      F. Review Under Executive Order 13132, “Federalism”
      G. Review Under Executive Order 12988, “Civil Justice Reform”
      H. Review Under the Unfunded Mandates Reform Act of 1995
      I. Review Under the Treasury and General Government Appropriations Act of 1999
      J. Review Under Executive Order 12630, “Governmental Actions and Interference With Constitutionally Protected Property Rights”
      L. Review Under Executive Order 13211, “Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use”
      M. Review Under Section 32 of the Federal Energy Administration Act of 1974
      N. Description of Materials Incorporated by Reference
     VII. Congressional Notification
     VIII. Approval of the Office of the Secretary

I. Executive Summary of the Final Rule

Section 305 of the Energy Conservation and Production Act (ECPA), as amended, requires DOE to determine whether the energy efficiency standards for new Federal buildings should be updated to reflect revisions to the IECC based on the cost-effectiveness of the revisions. (42 U.S.C. 6834(a)(3)(B)) Accordingly, DOE conducted a cost-effectiveness analysis that found the 2015 IECC to be cost-effective. DOE’s assumptions and methodology for the cost-effectiveness of this rule are based on DOE’s cost-effectiveness analysis of 2015 IECC, as well as DOE’s Environmental Assessment (EA) for this rulemaking. Therefore, in this final rule, DOE updates the energy efficiency standards for new Federal buildings to the 2015 IECC for buildings for which design for construction began on or after one year after the rule is published in the Federal Register. (42 U.S.C. 6834(a)(3)(A))

Federal buildings are defined as follows: “any building to be constructed by, or for the use of, any Federal agency. Such term shall include buildings built for the purpose of being leased by a Federal agency, and privatized military housing.” (42 U.S.C. 6832(6)). This term does not include renovations or modifications to existing buildings.

II. Introduction

ECPA, as amended, requires DOE to establish building energy efficiency standards for all new Federal buildings. (42 U.S.C. 6834(a)(1)) The standards established under section 305(a)(1) of ECPA must contain energy efficiency measures that are technologically feasible, economically justified, and meet the energy efficiency levels in the applicable voluntary consensus energy codes specified in section 305. (42 U.S.C. 6834(a)(1)–(3))

Under section 305 of ECPA, the referenced voluntary consensus code for low-rise residential buildings is the International Code Council (ICC) International Energy Conservation Code (IECC). (42 U.S.C. 6834(a)(2)(A)). DOE codified this referenced code as the baseline Federal building standard in its existing energy efficiency standards found in 10 CFR part 435. Also pursuant to section 305 of ECPA, DOE must establish, by rule, revised Federal building energy efficiency performance standards for new Federal buildings that require such buildings to be designed to achieve energy consumption levels that are at least 30 percent below the levels established in the referenced code (baseline Federal building standard), if life-cycle cost-effective. (42 U.S.C. 6834(a)(3)(A)(i)(I))

Under section 305 of ECPA, not later than one year after the date of approval of each subsequent revision of the ASHRAE Standard or the IECC, DOE must determine whether to amend the baseline Federal building standards based on the cost-effectiveness of the revised voluntary standard. (42 U.S.C. 6834(a)(3)(B)) It is this requirement that this rulemaking addresses. ICC has updated the IECC from the version currently referenced in DOE’s regulations at 10 CFR part 435. In this rule, DOE revises the latest baseline Federal building standard for 10 CFR part 435 from the 2009 IECC to the 2015 IECC. DOE notes that although ICC published an update to the IECC in 2012, this rule updates 10 CFR part 435 to the 2015 IECC, directly, without requiring agencies to comply with the 2012 IECC. DOE notes however that because development of the IECC is incremental from version to version, the 2015 IECC does include all content in
the 2012 IECC that was not specifically removed or modified during the development of the 2015 IECC. DOE evaluated the 2012 IECC as well and found it to be technologically feasible and economically justified. Section 306(a) of ECPA provides that each Federal agency and the Architect of the Capitol must adopt procedures to ensure that new Federal buildings will meet or exceed the Federal building energy efficiency standards established under section 305. (42 U.S.C. 6835(a)) ECPA Section 306(b) bars the head of a Federal agency from expending Federal funds for the construction of a new Federal building unless the building meets or exceeds the applicable baseline Federal building energy standards established under section 305. (42 U.S.C. 6835(b)) Specifically, all new Federal buildings must be designed to meet or exceed the applicable baseline Federal building energy standards. A new building is a building as defined in the Energy Conservation Standards and Polices Act (ECPA) of 2007 for Federal buildings” as “New Federal building means a building or a complete replacement of an existing Federal building energy standards for new Federal buildings should be updated to reflect the 2015 revisions to the IECC based on the cost-effectiveness of the revisions. DOE reviewed the IECC for DOE’s state building codes program and determined that the 2015 version of the IECC would achieve greater energy efficiency than the prior version (the 2012 version). (See 80 FR 33250 (June 11, 2015)) DOE also reviewed the 2012 version of the IECC and determined that the 2012 version would achieve greater energy efficiency than the prior version (the 2009 version currently referenced in 10 CFR part 435). (See 77 FR 29322 (May 17, 2012)) Both these determinations were subject to notice and comment. See 79 FR 57915 (September 26, 2014) and 76 FR 42688 (July 19, 2011) respectively for the 2015 IECC and 2012 preliminary determinations. DOE found that the 2015 version of the IECC would save 0.87% more source energy than the 2012 version of the IECC, and that the 2012 version of the IECC would save 24% more source energy than the 2009 version of the IECC.

In DOE’s determination for the state building codes program, and again in this rule, DOE states that the cost-effectiveness of revisions to the voluntary codes is considered through DOE’s statutorily directed involvement in the codes process. See 80 FR 33250. Section 307 of ECPA requires DOE to participate in the ICC code development process and to assist in determining the cost-effectiveness of the voluntary standards. (42 U.S.C. 6836) DOE is required to periodically review the economic basis of the voluntary building energy codes and participate in the industry process for review and modification, including seeking adoption of all technologically feasible and economically justified energy efficiency measures. (42 U.S.C. 6836(b)) In addition to DOE’s consideration of the cost-effectiveness of the 2015 IECC through its participation in the codes development process, DOE conducted an independent analysis of the cost-effectiveness of the 2015 IECC compared to the 2012 IECC and 2009 IECC. The results of the analysis are discussed in section A. Review Under Executive Order 12866, “Regulatory Planning and Review”. DOE’s assumptions and methodology for the cost-effectiveness of this rule are based on DOE’s cost-effectiveness analysis of the 2015 IECC, as well as DOE’s Environmental Assessment (EA) for this rulemaking.

In this rule, DOE updates the energy efficiency standards applicable to new Federal buildings based on the determinations made by DOE as to the energy efficiency improvements of the 2015 IECC and 2012 IECC, as compared to the predecessor version (the 2009 IECC), and based on the considerations of cost-effectiveness incorporated into the codes processes, DOE’s involvement in those processes, and DOE’s own cost-effectiveness analysis. This final rule amends 10 CFR part 435 to update the referenced baseline Federal energy efficiency performance standards. This final rule does not make any changes to the overall requirement that agencies must design buildings to meet the baseline standard and, if life-cycle cost-effective, achieve savings of at least 30% below the baseline standard. The statutory requirement to achieve savings of at least 30% below the levels established for the 2012 and 2015 IECC updates, applies to Federal agencies in the determinations they make for individual buildings, but not to DOE’s overall determination for the purpose of this rule.

Three changes made to 10 CFR part 435 in this rule warrant further discussion. These changes are: (1) Updated the definition of “Federal buildings” to meet the requirements of 42 U.S.C. 6832(6); (2) explicit reference to the new mechanical ventilation requirements found in the 2015 IECC to § 435.4; and (3) expanded list of energy end-uses that must be considered in the 30 percent savings calculation. Each of these changes is discussed in this preamble. DOE is also providing a synopsis of the major changes made to


3 42 U.S.C. 6832 defines “Federal buildings” as any building to be constructed by, or for the use of, any Federal agency. Such term shall include buildings built for the purpose of being leased by a Federal agency, and privatized military housing. DOE’s codifications of this definition in 10 CFR 435 and 10 CFR 433 include a second sentence defining “new Federal buildings” generally in the definition of “new Federal buildings” as “New Federal building means any building to be constructed by, or for the use of, any Federal agency which is not legally subject to State or local building codes or similar requirements. A new building is a building constructed on a site that previously did not have a building or a complete replacement of an existing building from the foundation up.”


8 Updating State Residential Building Energy Efficiency Codes, 77 FR 20322 (May 17, 2012)
the IECC between the 2009 IECC and the 2015 IECC to provide more detail regarding what the change in baseline standard means.

A. Updated Definition of New Federal Building

The definition of “New Federal building” in 10 CFR part 435 has not previously been updated to match what is found in 42 U.S.C. 6832(6). The Energy Independence and Security Act of 2007 (EISA 2007) updated the definition of “Federal building” to include privatized military family housing and leased buildings. This rule makes that update by revising the definition of “New Federal building” to mean “any new building (including a complete replacement of an existing building from the foundation up) to be constructed by, or for the use of, any federal agency.10 Such term shall include buildings built for the purpose of being leased by a federal agency, and privatized military housing.” DOE believes that the main impact of this definition change for this rule will be that privatized military housing will now be required to follow the requirements of 10 CFR part 435 for energy efficiency instead of using prevailing energy efficiency standards. For example, privatized military family housing constructed in the state of Georgia must meet the requirements of 10 CFR part 435, which may or may not be the same as the Georgia energy code. This change is made solely to bring 10 CFR part 435 into agreement with 42 U.S.C. 6832(6).

B. Adding Explicit Mention of Mechanical Ventilation Requirements in the 2015 IECC

The 2015 IECC includes explicit mechanical ventilation requirements for new homes. Previous editions of the IECC (prior to the 2012 IECC, but including the 2009 IECC) referred to in 10 CFR part 435 did not explicitly require mechanical ventilation. DOE believes that ensuring adequate ventilation is critical to ensuring good indoor air quality and has therefore explicitly added a mention of this requirement in 10 CFR part 435. DOE believes the main impact of this change will be to require agencies to use the newest residential ventilation standards. The 2015 IECC explicitly mentions the 2015 International Mechanical Code (IMC)11 and the 2015 International Residential Code (IRC)12 as optional sources of ventilation requirements. The 2015 IECC also allows “other approved means” of mechanical ventilation. Specifically, Section R403.5 of the 2015 IECC requires that “the building shall be provided with ventilation that meets the requirements of the International Residential Code or International Mechanical Code, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating”. Section R403.5.1 of the 2015 IECC also requires that “Mechanical ventilation system fans shall meet the requirements of Table R403.5.1.” Table R403.5.1 sets minimum efficacy for range hoods, in-line fans, and bathroom and utility room fans. DOE’s 2012 IECC determination (previously footnoted) states that the 2009 IECC does not require any mechanical ventilation. Section R403.5 of the 2012 IECC refers to the 2012 International Residential Code and International Mechanical Code which, in tandem with the 2012 IECC, require that a mechanical ventilation system meet these requirements or other approved means of ventilation in new homes.

DOE believes that the primary technical authority on residential ventilation is the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Standard 62.2 committee. Their latest standard—ASHRAE Standard 62.2–2013,13 is the source of many of the requirements in the 2015 IMC and 2015 IRC and could therefore be used as an “other approved means” by agencies. If agencies wish to use their own mechanical ventilation standards, they may choose to request an interpretation from the ASHRAE Standard 62.2 committee as to whether or not the agency’s own standard is an acceptable substitute. Agencies may submit a request for interpretation to the committee using the procedures outlined at https://www.ashrae.org/standards-research-technology/standards-forms-procedures/how-to-request-an-interpretation. Neither the 2015 IMC, nor 2015 IRC, nor ASHRAE Standard 62.2–2013 are incorporated by reference in this rule as they are options that an agency may choose to use.

C. Expanding the List of Energy End-Uses That Must Be Included in the 30 Percent Savings Calculation

Under the current 10 CFR 435.4, Federal agencies that are designing new Federal buildings that are low-rise or mid-rise residential buildings must only consider space heating, space cooling and domestic water heating when making the 30% savings calculation required in 10 CFR part 435 because the 2004 IECC and 2009 IECC only included those requirements. In addition to those three elements, the 2015 IECC includes explicit mechanical ventilation requirements that, the energy used for mechanical ventilation should be included in the 30 percent savings calculation required in 10 CFR part 435 as well. Also, both the 2015 IECC and the 2009 IECC (the current baseline standard for 10 CFR part 435) contain requirements for both lighting and, therefore, lighting should be included in the 30 percent savings calculation as well. DOE believes that the impact of this change on agencies should be minimal as ventilation and lighting end-uses should be part of the output of any residential whole building simulation tool that an agency might be using for its calculations. This rule also updates the methodology used in the 30 Percent Savings Calculation by directing agencies to use the Simulated Performance Alternative in the 2015 IECC as opposed to the Simulated Performance Alternative in the 2009 IECC. Updates to the Simulation Performance Alternative in the 2015 IECC from the Simulated Performance Alternative in the 2009 IECC include three clarifications to the documentation, calculation procedure, and calculation software tools sections that point out that all subsections in these sections must be addressed, as well as a number of editorial changes to call out specific sections in the 2015 IECC. There were also a few more technical changes to the Simulated Performance Alternative, including a change to the calculation method for the internal shade fraction, a change to the treatment of air exchange rates, a change to the default heating system assumption in cases where electric heating without a heat pump is used, and a change in how thermal distribution system efficiency is treated. There are also new requirements for compliance documentation associated with the Simulated Performance Alternative in the 2015 IECC. These
requirements, while part of the 2015 IECC, do not apply to Federal buildings as they are associated with applications for building permits and certificates of occupancy required from local code officials.

D. Other Energy Efficiency Requirements

DOE also notes that there are a number of statutory provisions, regulations, Executive Orders, and memoranda of understanding that govern energy consumption in new Federal buildings. These include, but are not limited to, the Executive Order 13693 (80 FR 15871 (March 25, 2015)); sections 323, 431, 433, 434, and 523 of the Energy Independence and Security Act of 2007 (EISA 2007); section 109 of the Energy Policy Act of 2005 (Pub. L. 109–58); and 10 CFR parts 433 and 435. This rule supports and does not supplant these other applicable requirements and goals for new Federal buildings. For example, by designing buildings to meet the 2015 IECC baseline, Federal agencies also help achieve the energy intensity reductions mandated under section 431 of EISA 2007.

Of particular significance is the Administration’s Climate Action Plan, (CAP), issued June 2013, in which the President affirmed that the Federal government must position itself as a leader in clean energy and energy efficiency, and pledged that Federal agencies must surpass previous greenhouse gas reduction achievements, through a combination of consuming 20 percent of Federal electricity from renewable sources by 2020, and by pursuing greater energy efficiency in Federal buildings.14 Additionally, the President directed that efficiency undertakings in the government’s enduring stratagem in the government’s enduring achievement of the greenhouse gas reduction goals set out in the CAP.

E. Synopsis of Changes to the IECC Between the 2009 and 2015 IECC

The IECC is updated every three years by the International Code Council (ICC). Between the 2009 IECC and the 2015 IECC, the ICC also issued the 2012 IECC. DOE, as part of its determination process, evaluates each new version of the IECC for low-rise residential buildings. The following summaries are taken directly from DOE’s determinations and supporting analyses for the 2012 IECC15 and 2015 IECC.16

2012 IECC Changes

In creating the 2012 IECC, ICC processed 27 sets of approved code change proposals. Overall, DOE found that the majority of changes in the 2012 IECC appear to be positive (i.e., have a positive impact on energy savings) within the context of the determination analysis. Of the 27 sets of changes:
- 14 were considered beneficial;
- 9 were considered neutral;
- 2 were considered detrimental; and
- 2 were considered to have an unquantifiable impact.

In the 2012 IECC, DOE noted the following 14 sets of improvements:
1. Increases in prescriptive insulation levels of walls, roofs and floors,
2. Decrease (improvement) in U-factor allowances for fenestration,
3. Decrease (improvement) in allowable Solar Heat Gain Coefficient (SHGC) for fenestration in warm climates,
4. Infiltration control: Mandated whole house pressure test with strict allowances for air leakage rates,
5. Wall insulation when structural sheathing is used,
6. Ventilation fan efficiency,
7. Lighting—Increased fraction of lamps required to be high-efficacy,
8. Air distribution systems—leakage control requirements,
9. Hot water pipe insulation and length requirements,
10. Skylight definition change,
11. Penalizing electric resistance heating in the performance compliance path,
12. Fireplace air leakage control,
13. Insulating covers for in-ground spas, and

DOE also noted the following two changes that decrease the efficiency of the 2012 IECC:
1. Steel-framed wall insulation, and
2. Air barrier location.

DOE also noted another two changes the effect of which was unclear:
1. Fenestration SHGC requirement in climate zone 4, and
2. Interior shading assumptions in the performance compliance path.

DOE also noted nine additional changes that had no apparent impact on the energy performance of the 2012 IECC:
1. Clarification of the scope of the residential building section of the IECC,
2. Definition of a whole house ventilation system,
3. A requirement for the results of the air leakage test to be put on the certificate,
4. Inclusion of Visual Transmittance (VT) in the code,
5. Clarification of recessed lighting leakage rates,
6. Introduction of ASHRAE Test Procedure 193 for HVAC equipment leakage test rates,
7. Introduction of a new test standard for home ventilation systems,
8. Clarification for the requirement for thermal distribution system design in the Simulated Performance Alternative, and
9. Moving of a requirement for sizing of equipment from an IRC reference into the IECC.

All of these changes are discussed in more detail in DOE’s 2012 Determination.

2015 IECC Changes

In creating the 2015 IECC, ICC processed 76 approved code change proposals. Overall, DOE found that the vast majority of changes in the 2015 IECC appear to be neutral (i.e., have no direct impact on energy savings) within the context of the determination analysis. DOE also found that beneficial changes (i.e., increased energy savings) outweigh any changes with a detrimental effect on energy efficiency in residential buildings. Of the 76 total changes:
- 6 were considered beneficial;
- 62 were considered neutral;
- 5 were considered negligible;
- 2 were considered detrimental; and
- 1 was considered to have an unquantifiable impact.

The 6 changes considered beneficial are:

Increases insulation requirements for return ducts in attics from R-6 to R-8. Adds requirements for demand-activated control on hot water circulation systems and heat trace systems. Makes IECC, IRC, and IPC consistent and clarifies requirements for these systems. Deletes requirement for domestic hot water (DHW) pipe insulation to kitchen and the generic requirement on long/large-diameter pipes. However, adds DHW pipe insulation for ¾-inch pipes. Adds demand control requirements for recirculating systems that use a cold water supply pipe to return water to the tank. Revises language requiring the code to apply to historic buildings if no "compromise to the historic nature and function of the building" occurs. Adds requirement for outdoor setback control for hot water boilers that controls the boiler water temperature based on the outdoor temperature.

<table>
<thead>
<tr>
<th>Nature of change</th>
<th>Reason for evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increases insulation requirements for return ducts in attics from R-6 to R-8.</td>
<td>Modestly reduces conduction losses from return ducts in attics.</td>
</tr>
<tr>
<td>Adds requirements for demand-activated control on hot water circulation systems</td>
<td>Demand activated control reduces the runtime of circulation pumps.</td>
</tr>
<tr>
<td>and heat trace systems. Makes IECC, IRC, and IPC consistent and clarifies</td>
<td></td>
</tr>
<tr>
<td>requirements for these systems. Deletes requirement for domestic hot water</td>
<td></td>
</tr>
<tr>
<td>(DHW) pipe insulation to kitchen and the generic requirement on long/large-</td>
<td></td>
</tr>
<tr>
<td>diameter pipes. However, adds DHW pipe insulation for ¾-inch pipes. Adds</td>
<td></td>
</tr>
<tr>
<td>demand control requirements for recirculating systems that use a cold water</td>
<td></td>
</tr>
<tr>
<td>supply pipe to return water to the tank. Revises language requiring the code to</td>
<td></td>
</tr>
<tr>
<td>apply to historic buildings if no &quot;compromise to the historic nature and</td>
<td></td>
</tr>
<tr>
<td>function of the building&quot; occurs. Adds requirement for outdoor setback control</td>
<td></td>
</tr>
<tr>
<td>for hot water boilers that controls the boiler water temperature based on the</td>
<td></td>
</tr>
<tr>
<td>outdoor temperature.</td>
<td></td>
</tr>
</tbody>
</table>

The two changes were considered detrimental were:

<table>
<thead>
<tr>
<th>Nature of change</th>
<th>Reason for evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slightly increases sunroom U-factor</td>
<td>Applies to only climate zones 2 and 3: impacts only thermally isolated sunrooms.</td>
</tr>
<tr>
<td>Defines a new “Tropical” climate zone and adds an optional compliance path for</td>
<td>Exception to code requirements applicable to a small number of homes in tropical</td>
</tr>
<tr>
<td>semi-conditioned residential buildings with a list of pre-defined criteria to be</td>
<td>areas.</td>
</tr>
<tr>
<td>deemed as code compliant in this climate zone.</td>
<td></td>
</tr>
</tbody>
</table>

The remaining 68 changes were primarily editorial in nature. These changes are discussed in more detail in Table III.1 in DOE’s 2015 IECC Determination.

### IV. Compliance Date

This final rule applies to new Federal low-rise residential buildings for which design for construction begins on or after one year from the publication date of this rulemaking in the Federal Register. (42 U.S.C. 6834(a)(1)) Such buildings must be designed to exceed the energy efficiency level of the appropriate updated voluntary standard by 30 percent if life-cycle cost-effective. However, at a minimum, such buildings must achieve the energy efficiency equal to that of the appropriate updated voluntary standard. One year lead time before the design for construction begins is consistent with DOE’s previous updates to the energy efficiency baselines and the original statutory mandate for Federal building standards. One year lead time before design for construction begins helps minimize compliance costs to agencies, which may have planned buildings in various stages of design, and allows for design changes to more fully consider life-cycle cost-effective measures (as opposed to having to revise designs in development, which may make incorporation of energy efficiency measure more difficult or expensive).

### V. Reference Resources

The Department originally prepared this list of resources to help Federal agencies achieve building energy efficiency levels of at least 30 percent below the 2009 IECC. The Department has reviewed these resources and believes that they continue to be useful for helping agencies maximize their energy efficiency levels. The Department has updated this resource list as appropriate. These resources come in many forms and in a variety of media. Resources are provided for all buildings, and also specifically for low-rise residential buildings.

#### A. Resources for Low-Rise Residential Buildings


http://energy.gov/eere/femp/energy-and-water-efficient-products

Federal agencies are required to specify Federal Energy Management Program (FEMP) designated or ENERGY STAR equipment, including building mechanical and lighting equipment and builder-supplied appliances, for purchase and installation in all new construction. 42 U.S.C. 8259(b)

Although this rule does not specifically address the use of this equipment, ENERGY STAR and FEMP-Designated products are generally more energy efficient than the corresponding requirements of the 2015 IECC, and may be used to achieve part of the savings required of Federal building designs. Therefore, DOE lists this Web site as a potential resource.


Price Indices and Discount Factors for Life-Cycle Cost Analysis”.

3. ENERGY STAR Buildings—U.S. Environmental Protection Agency and U.S. Department of Energy
(http://www.energystar.gov/homes)

ENERGY STAR is a government-backed program helping businesses and individuals protect the environment through superior energy efficiency. The EPA program requirements for ENERGY STAR-labeled homes, effective as of the date of this rule, provide a useful guide for meeting the Federal energy efficiency standard for low-rise residential buildings.

4. Passive House Institute US
http://www.phius.org/home-page

This Web site provides information on designing and building very low energy homes.

http://energy.gov/energysaver/energy-efficient-home-design

This Web site provides information on energy efficient home design strategies, and technologies to support energy efficiency in residences.


This standard provides requirements for building high-efficiency and green homes and multi-family buildings.

7. LEED for Homes—US Green Building Council
http://www.usgbc.org/articles/getting-know-leed-homes-design-and-construction

This certification system provides requirements for building high-efficiency and green homes and multi-family buildings.

8. Green Globes—The Green Building Initiative
http://www.thegbi.org/

This certification provides requirements for building high-efficiency and green multi-family buildings.

9. 2015 IECC—ICC

The baseline energy efficiency standard for low-rise residential buildings is the 2015 IECC.

10. Whole Building Design Guide—National Institute of Building Sciences
http://www.wbdc.org/

A portal providing one-stop access to up-to-date information on a wide range of building-related guidance, criteria and technology from a “whole buildings” perspective.

VI. Regulatory Analysis
A. Review Under Executive Order 12866, “Regulatory Planning and Review”

This final rule is a “significant regulatory action” under Executive Order 12866, “Regulatory Planning and Review.” 58 FR 51735 (October 4, 1993). Accordingly, this action was subject to review by the Office of Information and Regulatory Affairs in the Office of Management and Budget (OMB). OMB has completed its review. As discussed previously in this rule, DOE is required to determine, based on the cost-effectiveness, whether the standards for Federal buildings should be updated to reflect an amendment to the IECC standard. As stated in this preamble, DOE complied with the statutory language by analyzing the cost-effectiveness of the 2015 IECC, and through DOE’s involvement in the ICC code development process, including consideration of the cost-effectiveness of the 2015 IECC.

DOE has also reviewed this regulation pursuant to Executive Order 13563, issued on January 18, 2011. 76 FR 3281 (January 21, 2011). E.O. 13563 is supplemental to and explicitly reaffirms the principles, structures, and definitions governing regulatory review established in Executive Order 12866. Review under Executive Order 12866 requires an analysis of the economic effect of the rule. For this purpose, DOE estimated incremental first cost (in this case, the difference between the cost of a building designed to meet the 2015 IECC and a building designed to meet the 2009 IECC) for the Federal low-rise residential buildings sector, as well as life-cycle cost net savings. DOE determined that the total incremental first cost estimate is an increase of $4.1 million per year, with an average first cost increase of $2,051 per household. DOE estimated $14.8 million in annual life-cycle cost (LCC) net savings for the entire Federal low-rise residential buildings sector with an average life-cycle cost net savings of $7,421 per household.

DOE’s assumptions and methodology for the cost-effectiveness of this rule are based on DOE’s cost-effectiveness analysis of the 2015 IECC, as well as DOE’s Environmental Assessment (EA) for this rulemaking. The EA identified a rate of new Federal residential construction of 4,936 homes per year. As described in the EA, this estimate is derived from consideration of data from a number of sources. DOE’s cost-effectiveness analysis of the 2015 IECC provides tables for the first cost increase, the energy savings, and the life cycle costs associated with the 2015 IECC versus the 2012 IECC and 2009 IECC by climate zone. DOE’s cost-effectiveness report does not provide national average values, but does provide sufficient weighting data so that these national averages can be calculated. The weighting data provided in the cost-effectiveness report is used to generate the rows labeled “National Average” in Tables 1, 2, and 3 in this preamble.

Table 1 lists the increased first costs associated with the 2015 IECC for a standard 2,400 ft² prototypical home and a standard 1,200 ft² prototypical apartment/condo building. DOE believes that the majority of Federal low-rise residential construction will be single family homes built by the Department of Defense (or their


privatization contractors), but there is a possibility that some Federal low-rise multi-family buildings could be built,\textsuperscript{19} so the results of DOE's first cost analysis are shown in full. The 2015 IECC does increase the first cost of construction of new homes and apartments/condos compared to the 2009 IECC in all climate zones in the United States.

### Table 1—Total Incremental First Cost for 2015 IECC Compared to the 2009 IECC

<table>
<thead>
<tr>
<th>Climate zone</th>
<th>2,400 ft(^2) house</th>
<th>1,200 ft(^2) apartment/condo (^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Slab-on-grade</td>
<td>Unheated basement, or crawlspace</td>
</tr>
<tr>
<td>1</td>
<td>$1,585</td>
<td>$1,553</td>
</tr>
<tr>
<td>1-tropical(^b)</td>
<td>$1,152</td>
<td>$1,152</td>
</tr>
<tr>
<td>2</td>
<td>$1,920</td>
<td>$1,888</td>
</tr>
<tr>
<td>3</td>
<td>$2,495</td>
<td>$2,463</td>
</tr>
<tr>
<td>4</td>
<td>$2,005</td>
<td>$1,973</td>
</tr>
<tr>
<td>5</td>
<td>$1,493</td>
<td>$1,461</td>
</tr>
<tr>
<td>6</td>
<td>$2,718</td>
<td>$2,686</td>
</tr>
<tr>
<td>7</td>
<td>$2,718</td>
<td>$2,686</td>
</tr>
<tr>
<td>8</td>
<td>$2,718</td>
<td>$2,686</td>
</tr>
<tr>
<td>National Average</td>
<td>$2,060</td>
<td>$2,028</td>
</tr>
<tr>
<td>Foundation Weight(^c)</td>
<td>$0.479</td>
<td>$0.379</td>
</tr>
</tbody>
</table>

\(^a\)For multifamily homes with an oil-fired boiler, an additional incremental cost of $30.55 for the outdoor air temperature reset applies to all climate zones.  
\(^b\)This cost applies to 35% of all new single-family homes in the tropical climate zone. The tropical climate zone accounts for around 50% of all new single-family construction starts in climate zone 1.  
\(^c\)Foundation weights from Table 1.3 of the 2015 IECC Cost-Effectiveness Report.

The first cost data shown in Table 1 can be further aggregated by foundation type using the foundation type weightings found in the 2015 IECC Cost-Effectiveness report (and also shown in Table 1 in the row labeled “Foundation Weights”). The results of that weighting indicate that the typical first cost of a home would be $2,051 and that of an apartment/condo would be $1,027. These first cost increases should be compared to the estimated first cost of new Federal low-rise residential construction, but that information is not typically publicly available. Instead, DOE has chosen to compare these costs to typical costs in the private sector.

The National Association of Realtors (NAR) in a press release dated September 21, 2015 stated that the median U.S. single family home price was $230,200 in August 2015.\textsuperscript{20} The $2,051 cost increase represents approximately 0.9% of the average cost of a new home. As previously stated, DOE does not believe that a large fraction of Federal low-rise construction falls under this rule, but for comparison, the same NAR press release lists the price for condominiums at $217,400. The $1,027 cost increase for condominiums represents a 0.5% increase. Any increase in first cost would be accompanied by a reduction in energy costs and an increase in life cycle cost savings.

The estimated energy cost savings associated with the 2015 IECC is shown in Table 2. This table is based on a combination of single-family homes and apartments/condos as described in DOE's cost-effectiveness report. While the weighting of homes and apartments/condos may not be identical in the private and Federal sectors, the trends are similar for both single-family homes and apartments/condos. The 2015 IECC saves a considerable amount of energy costs over the 2009 IECC in all climate zones in the United States.

### Table 2—Average Annual Energy Cost Savings for the 2015 IECC Compared to the 2009 IECC—Continued

<table>
<thead>
<tr>
<th>Climate zone</th>
<th>Average annual energy cost savings ($/residence-yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Average</td>
<td>315</td>
</tr>
</tbody>
</table>

The life-cycle cost impact of the 2015 IECC is shown in Table 3. Again, these values represent the combination of single-family homes and apartments/condos, but the trends are clear. The 2015 IECC has large life cycle cost savings in all climate zones in the U.S.

### Table 3—Total Life Cycle Cost Savings for the 2015 IECC Compared to the 2009 IECC

<table>
<thead>
<tr>
<th>Climate zone</th>
<th>Total life cycle cost savings ($/residence-yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+$4,418</td>
</tr>
<tr>
<td>2</td>
<td>+$5,725</td>
</tr>
<tr>
<td>3</td>
<td>+$6,569</td>
</tr>
<tr>
<td>4</td>
<td>+$8,088</td>
</tr>
<tr>
<td>5</td>
<td>+$7,697</td>
</tr>
<tr>
<td>6</td>
<td>+$11,231</td>
</tr>
<tr>
<td>7</td>
<td>+$17,525</td>
</tr>
<tr>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

\textsuperscript{19} DOE's main source of Federal construction information, the Federal Real Property Profile, does list Family Housing and Barracks/Apartments as separate categories but does not differentiate Barracks/Apartments on the basis of number of stories. DOE assumes the all Family Housing would fall under this rule, while Barracks/Apartments are regulated under the Federal building energy efficiency standards for commercial and high-rise multi-family buildings. While Barracks may be envisioned long low buildings containing rows of cott, this vision is driven primarily by old-style barracks from the past. DOD's new training barracks tend to combine sleeping accommodations, class rooms, and physical training facilities and are therefore designed by DOD using the Federal commercial and high-rise multi-family requirements.

The Regulatory Flexibility Act (5 U.S.C. 601 et seq.) requires the preparation of an initial regulatory flexibility analysis for any rule that by law must be proposed for public comment, unless the agency certifies that the rule, if promulgated, will not have a significant economic impact on a substantial number of small entities. As required by Executive Order 13272, Proper Consideration of Small Entities in Agency Rulemaking, 67 FR 53461 (August 16, 2002), DOE published procedures and policies on February 19, 2003, to ensure that the potential impacts of its rules on small entities are properly considered during the rulemaking process, 68 FR 7990. The Department has made its procedures and policies available on the Office of General Counsel’s Web site: http://energy.gov/sc/office-general-counsel.

DOE has determined that a notice of proposed rulemaking is not required by 5 U.S.C. 553 or any other law for issuance of this rule. As such, the analytical requirements of the Regulatory Flexibility Act do not apply.

D. Review Under the Paperwork Reduction Act of 1995

This rulemaking will impose no new information record keeping requirements. Accordingly, Office of Management and Budget (OMB) clearance is not required under the Paperwork Reduction Act. (44 U.S.C. 3501 et seq).

E. Review Under the National Environmental Policy Act of 1969


The EA addresses the possible incremental environmental effects attributable to the application of the final rule. The only anticipated impact would be a decrease in outdoor air pollutants resulting from decreased fossil fuel burning for use in Federal buildings. Therefore, DOE has issued a Finding of No Significant Impact (FONSI), pursuant to NEPA, the regulations of the Council on Environmental Quality (40 CFR parts 1500–1508), and DOE’s regulations for compliance with NEPA (10 CFR part 1021).

To identify the potential environmental impacts that may result from implementing the final rule on new Federal low-rise residential buildings, DOE compared the requirements of the final rule updating energy efficiency performance standard for Federal new low-rise residential buildings to 2015 IECC with the “no-action alternative” of using the current Federal standards (the 2009 IECC). This comparison is identical to that undertaken by DOE in its determinations of energy savings of those standards and codes.

Accordingly, DOE concludes in the EA that new Federal buildings designed and constructed to the 2015 IECC will use less energy than new Federal buildings designed and constructed to the 2009 IECC because the 2015 IECC is more efficient than 2009 IECC. This decrease in energy usage translates to reduced emissions of carbon dioxide (CO2), nitrogen oxides (NOx), and mercury (Hg) over the thirty-year period examined in the EA. Cumulative emission reductions for 30 years of construction (2018 through 2047) and 30 years of energy reduction for each building built during that period can be estimated at up to 4,114,800 metric tons of CO2, up to 3,147 metric tons of NOx, and up to 0.0338 metric tons of Hg. DOE conducted a separate calculation to determine emissions reductions relative to the targets identified in the CAP. This calculation showed that the cumulative reduction in CO2 emissions through 2030 amounts to 690,220 metric tons of CO2.22

21 The EA may be found in the docket for this rulemaking and at https://energy.gov/sites/prod/files/2016/12/f34/EA-2020-FEA-2016.pdf.

22 See discussion of CAP calculations in footnote 12 on page 23 of the EA for this rule. The EA may be found in the docket for this rulemaking and at https://energy.gov/sites/prod/files/2016/12/f34/EA-2020-FEA-2016.pdf.
F. Review Under Executive Order 13132, “Federalism”

Executive Order 13132, “Federalism,” 64 FR 43255 (August 4, 1999), imposes certain requirements on agencies formulating and implementing policies or regulations that preempt State law or that have federalism implications. The Executive Order requires agencies to examine the constitutional and statutory authority supporting any action that would limit the policymaking discretion of the States and to carefully assess the necessity for such actions. The Executive Order also requires agencies to have an accountable process to ensure meaningful and timely input by State and local officials in the development of regulatory policies that have federalism implications. On March 14, 2000, DOE published a statement of policy describing the intergovernmental consultation process it will follow in the development of such regulations, 65 FR 13735. DOE examined this rule and determined that it does not preempt State law and does 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. No further action is required by Executive Order 13132.

G. Review Under Executive Order 12988, “Civil Justice Reform”

With respect to the review of existing regulations and the promulgation of new regulations, section 3(a) of Executive Order 12988, “Civil Justice Reform,” 61 FR 4729 (February 7, 1996), imposes on Federal agencies the general duty to adhere to the following requirements: (1) Eliminate drafting errors and ambiguity; (2) write regulations to minimize litigation; and (3) provide a clear legal standard for affected conduct, rather than a general standard and promote simplification and burden reduction. Section 3(b) of Executive Order 12988 specifically requires that Executive agencies make every reasonable effort to ensure that the regulation: (1) Clearly specifies the preemptive effect, if any; (2) clearly specifies any effect on existing Federal law or regulation; (3) provides a clear legal standard for affected conduct, while promoting simplification and burden reduction; (4) specifies the retroactive effect, if any; (5) adequately defines key terms; and (6) addresses other important issues affecting clarity and general draftsmanship under any guidelines issued by the Attorney General. Section 3(c) of Executive Order 12988 requires Executive agencies to review regulations in light of applicable standards in section 3(a) and section 3(b) to determine whether they are met or it is unreasonable to meet one or more of them. DOE has completed the required review and determined that, to the extent permitted by law, this rule meets the relevant standards of Executive Order 12988.

H. Review Under the Unfunded Mandates Reform Act of 1995

Title II of the Unfunded Mandates Reform Act of 1995 (UMRA) (Pub. L. 104–4) requires each Federal agency to assess the effects of Federal regulatory actions on State, local, and tribal governments and the private sector. For a proposed regulatory action likely to result in a rule that may cause the expenditure by State, local, and tribal governments, in the aggregate, or by the private sector of $100 million or more in any one year (adjusted annually for inflation), section 202 of UMRA requires a Federal agency to publish a written statement that estimates the resulting costs, benefits, and other effects on the national economy. (2 U.S.C. 1532(a) and (b)) The UMRA also requires a Federal agency to develop an effective process to permit timely input by elected officers of State, local, and tribal governments on a proposed “significant intergovernmental mandate” and requires an agency plan for giving notice and opportunity for timely input to potentially affected small governments before establishing any requirements that might significantly or uniquely affect small governments. On March 18, 1997, DOE published a statement of policy on its process for intergovernmental consultation under UMRA (62 FR 12820) (also available at http://energy.gov/gc/office-general-counsel). This final rule contains neither an intergovernmental mandate nor a mandate that may result in the expenditure of $100 million or more in any year by State, local, and tribal governments, in the aggregate, or by the private sector, so these requirements under the Unfunded Mandates Reform Act do not apply.

I. Review Under the Treasury and General Government Appropriations Act of 1999

Section 654 of the Treasury and General Government Appropriations Act of 1999 (Pub. L. 105–277) requires Federal agencies to prepare a Family Policymaking Assessment for any rule that may affect family well-being. This final rule would not have any impact on the autonomy or integrity of the family as an institution. Accordingly, DOE has concluded that it is not necessary to prepare a Family Policymaking Assessment.

J. Review Under Executive Order 12630, “Governmental Actions and Interference With Constitutionally Protected Property Rights”

The Department has determined, under Executive Order 12630, “Governmental Actions and Interference with Constitutionally Protected Property Rights” 53 FR 8859 (March 18, 1988) that this rule would not result in any takings which might require compensation under the Fifth Amendment to the United States Constitution.


Section 515 of the Treasury and General Government Appropriations Act, 2001 (Pub. L. 106–28) provides for agencies to review most disseminations of information to the public under guidelines established by each agency pursuant to general guidelines issued by OMB. OMB’s guidelines were published at 67 FR 4852 (February 22, 2002), and DOE’s guidelines were published at 67 FR 62446 (October 7, 2002). DOE has reviewed this final rule under the OMB and DOE guidelines and has concluded that it is consistent with applicable policies in those guidelines.

L. Review Under Executive Order 13211, “Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use”

Executive Order 13211, “Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use,” 66 FR 28355 (May 22, 2001), requires Federal agencies to prepare and submit to the Office of Information and Regulatory Affairs (OIRA), Office of Management and Budget, a Statement of Energy Effects for any proposed significant energy action. A “significant energy action” is defined as any action by an agency that promulgated or is expected to lead to promulgation of a final rule, and that: (1) Is a significant regulatory action under Executive Order 12866, or any successor order; and (2) is likely to have a significant adverse effect on the supply, distribution, or use of energy, or (3) is designated by the Administrator of OIRA as a significant energy action. For any proposed significant energy action, the agency must give a detailed statement of any adverse effects on the supply, distribution, or use should the proposal be implemented, and of reasonable alternatives to the
action and their expected benefits on energy supply, distribution, and use. DOE’s Energy Information Administration (EIA) estimates that new construction in the residential sector will range from average about 81 million households in the US in 2016, with a growth rate of roughly 0.8% per year which is equivalent to about 648,000 new households per year. This rule is expected to incrementally reduce the energy usage of approximately 4936 homes23 estimate.24 This rule is expected to incrementally reduce the energy usage of approximately 4936 units of Federal low-rise residential construction annually. Thus, the rule represents approximately 0.76% of the expected annual U.S. construction in 2017, and less in every succeeding year. This final rule would not have a significant adverse effect on the supply, distribution, or use of energy and, therefore, is not a significant energy action. Accordingly, DOE has not prepared a Statement of Energy Effects.

M. Review Under Section 32 of the Federal Energy Administration Act of 1974

Under section 301 of the Department of Energy Organization Act (Pub. L. 95–91), DOE must comply with section 32 of the Federal Energy Administration Act of 1974 (Pub. L. 93–275), as amended by the Federal Energy Administration Authorization Act of 1977 (Pub. L. 95–70), (15 U.S.C. 788) Section 32 provides that where a proposed rule authorizes or requires use of commercial standards, the NOPR must inform the public of the use and background of such standards. In addition, section 32(c) requires DOE to consult with the Department of Justice (DOJ) and the Federal Trade Commission (FTC) concerning the impact of the commercial or industry standard on competition.

Although section 32 specifically refers to the proposed rule stage, DOE is meeting these requirements at the final rule stage because there was no proposed rule for this action. This final rule incorporates testing methods contained in the following commercial standard: ICC International Energy Conservation Code (IECC), 2015 Edition (see below). DOE has evaluated these standards and notes that the IECC Standard is developed under ICC’s governmental consensus standard procedures, and is under a three-year maintenance cycle. ICC has established a program for regular publication of errata and

23 See Table A4 of the 2016 Annual Energy Outlook at http://www.eia.gov/forecasts/aeo/.
24 See Environmental Assessment for this rule for origin of the 4936 homes estimate.
August 10, 2012, but before January 10, 2018 to:

(3) All Federal agencies shall design new Federal buildings that are low-rise residential buildings, for which design for construction began on or after January 10, 2018 to:

(i) Meet the IECC 2015, (incorporated by reference, see § 435.3), including the mandatory mechanical ventilation requirements in Section R403.6 of the 2015 IECC; and

(ii) If life-cycle cost-effective, achieve energy consumption levels, calculated consistent with paragraph (b) of this section, that are at least 30 percent below the levels of the IECC Baseline Building 2015.

(b)(1) For new Federal low-rise residential buildings whose design for construction began before January 10, 2018, energy consumption for the purposes of calculating the 30 percent savings shall include space heating, space cooling, and domestic water heating.

(2) For new Federal low-rise residential buildings whose design for construction began on or after before January 10, 2018, energy consumption for the purposes of calculating the 30 percent savings shall include space heating, space cooling, lighting, mechanical ventilation, and domestic water heating.

5. Revise § 435.5 to read as follows:

§ 435.5 Performance level determination.

(a) For new Federal buildings for which design for construction began on or after January 3, 2007, but before August 10, 2012, each Federal agency shall determine energy consumption levels for both the IECC Baseline Building 2004 and proposed building by using the Simulated Performance Alternative found in section R405 of the IECC 2004 (incorporated by reference, see § 435.3).

(b) For new Federal buildings for which design for construction began on or after August 10, 2012, but before January 10, 2018, each Federal agency shall determine energy consumption levels for both the IECC Baseline Building 2009 and proposed building by using the Simulated Performance Alternative found in section R405 of the IECC 2009 (incorporated by reference, see § 435.3).

(c) For new Federal buildings for which design for construction began on or after January 10, 2018 each Federal agency shall determine energy consumption levels for both the IECC Baseline Building 2015 and proposed building by using the Simulated Performance Alternative found in section R405 of the IECC 2015 (incorporated by reference, see § 435.3).

[FR Doc. 2017–00025 Filed 1–9–17; 8:45 am]
BILLING CODE 6450–01–P

DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration

14 CFR Part 71
[Docket No. FAA–2016–8833; Airspace Docket No. 16–ACE–8]

Amendment of Class E Airspace for the Following Iowa Towns: Algona, IA; Ankeny, IA; Atlantic, IA; Belle Plaine, IA; Creston, IA; Estherville, IA; Grinnell, IA; Guthrie Center, IA; and Oelwein, IA

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This action modifies Class E airspace extending upward from 700 feet above the surface to 7000 feet above the surface at Algona Municipal Airport, Algona, IA; Ankeny Regional Airport, Ankeny, IA; Atlantic Municipal Airport, Atlantic, IA; Belle Plaine Municipal Airport, Belle Plaine, IA; Creston Municipal Airport, Creston, IA; Estherville Municipal Airport, Estherville, IA; Grinnell Regional Airport, Grinnell, IA; Guthrie County Regional Airport, Guthrie Center, IA; and Oelwein Municipal Airport, Oelwein, IA.

Amendment of Class E airspace for the following Iowa towns: Algona, IA; Ankeny, IA; Atlantic, IA; Belle Plaine, IA; Creston, IA; Estherville, IA; Grinnell, IA; Guthrie Center, IA; and Oelwein, IA.

DATES: Effective 0901 UTC, April 27, 2017. The Director of the Federal Register approves this incorporation by reference action under Title 1, Code of Federal Regulations, part 51, subject to the annual revision of FAA Order 7400.11 and publication of conforming amendments.

ADDRESSES: FAA Order 7400.11A, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at http://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 7400.11A at NARA, call 202–741–6030, or go to http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

FOR FURTHER INFORMATION CONTACT: Jeffrey Claypool, Federal Aviation Administration, Operations Support Group, Central Service Center, 10101 Hillwood Parkway, Fort Worth, TX 76177; telephone (817) 222–5711.

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 1, 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 amends Class E surface area at Ankeny Regional Airport, Ankeny, IA; and Class E airspace extending upward from 700 feet above the surface at Algona Municipal Airport, Algona, IA; Ankeny Regional Airport, Ankeny, IA; Atlantic Municipal Airport, Atlantic, IA; Belle Plaine Municipal Airport, Belle Plaine, IA; Creston Municipal Airport, Creston, IA; Estherville Municipal Airport, Estherville, IA; Grinnell Regional Airport, Grinnell, IA; Guthrie County Regional Airport, Guthrie Center, IA; and Oelwein Municipal Airport, Oelwein, IA.

History

On September 23, 2016, the FAA published in the Federal Register a notice of proposed rulemaking (NPRM), (81 FR 65583) Docket No. FAA–2016–8833, to amend Class E surface area at