

115TH CONGRESS  
2D SESSION

# H. R. 4

To reauthorize programs of the Federal Aviation Administration, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

APRIL 13, 2018

Mr. SHUSTER (for himself, Mr. DEFazio, Mr. SMITH of Texas, Mr. LOBIONDO, Mr. LARSEN of Washington, Mr. BARLETTA, Ms. TITUS, Mr. GRAVES of Missouri, Ms. NORTON, Mr. HUNTER, Mr. GARAMENDI, Mr. DENHAM, Mr. CAPUANO, Mr. GRAVES of Louisiana, and Mrs. NAPOLITANO) introduced the following bill; which was referred to the Committee on Transportation and Infrastructure, and in addition to the Committees on Financial Services, Ways and Means, Science, Space, and Technology, and Natural Resources, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## A BILL

To reauthorize programs of the Federal Aviation Administration, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*  
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

4 (a) SHORT TITLE.—This Act may be cited as the  
5 “FAA Reauthorization Act of 2018”.

1 (b) TABLE OF CONTENTS.—The table of contents for  
 2 this Act is as follows:

- Sec. 1. Short title; table of contents.  
 Sec. 2. Effective date.

TITLE I—AUTHORIZATIONS

Subtitle A—Funding of FAA Programs

- Sec. 101. Airport planning and development and noise compatibility planning  
 and programs.  
 Sec. 102. Facilities and equipment.  
 Sec. 103. FAA operations.  
 Sec. 104. Adjustment to AIP program funding.  
 Sec. 105. Funding for aviation programs.

Subtitle B—Passenger Facility Charges

- Sec. 111. Passenger facility charge modernization.  
 Sec. 112. Pilot program for passenger facility charge authorizations.

Subtitle C—Airport Improvement Program Modifications

- Sec. 121. Clarification of airport obligation to provide FAA airport space.  
 Sec. 122. Mothers' rooms at airports.  
 Sec. 123. Extension of competitive access reports.  
 Sec. 124. Grant assurances.  
 Sec. 125. Government share of project costs.  
 Sec. 126. Updated veterans' preference.  
 Sec. 127. Special rule.  
 Sec. 128. Marshall Islands, Micronesia, and Palau.  
 Sec. 129. Nondiscrimination.  
 Sec. 130. State block grant program expansion.  
 Sec. 131. Midway Island Airport.  
 Sec. 132. Property conveyance releases.  
 Sec. 133. Minority and disadvantaged business participation.  
 Sec. 134. Contract tower program.  
 Sec. 135. Airport access roads in remote locations.  
 Sec. 136. Buy America requirements.

Subtitle D—Airport Noise and Environmental Streamlining

- Sec. 151. Recycling plans for airports.  
 Sec. 152. Pilot program sunset.  
 Sec. 153. Extension of grant authority for compatible land use planning and  
 projects by State and local governments.  
 Sec. 154. Updating airport noise exposure maps.  
 Sec. 155. Stage 3 aircraft study.  
 Sec. 156. Addressing community noise concerns.  
 Sec. 157. Study on potential health impacts of overflight noise.  
 Sec. 158. Environmental mitigation pilot program.  
 Sec. 159. Aircraft noise exposure.  
 Sec. 160. Community involvement in FAA NextGen projects located in  
 metroplexes.  
 Sec. 161. Critical habitat on or near airport property.

Sec. 162. Clarification of reimbursable allowed costs of FAA memoranda of agreement.

## TITLE II—FAA SAFETY CERTIFICATION REFORM

### Subtitle A—General Provisions

Sec. 201. Definitions.  
 Sec. 202. Safety Oversight and Certification Advisory Committee.

### Subtitle B—Aircraft Certification Reform

Sec. 211. Aircraft certification performance objectives and metrics.  
 Sec. 212. Organization designation authorizations.  
 Sec. 213. ODA review.  
 Sec. 214. Type certification resolution process.  
 Sec. 215. Review of certification process for small general aviation airplanes.

### Subtitle C—Flight Standards Reform

Sec. 231. Flight standards performance objectives and metrics.  
 Sec. 232. FAA task force on flight standards reform.  
 Sec. 233. Centralized safety guidance database.  
 Sec. 234. Regulatory Consistency Communications Board.

### Subtitle D—Safety Workforce

Sec. 241. Safety workforce training strategy.  
 Sec. 242. Workforce review.

### Subtitle E—International Aviation

Sec. 251. Promotion of United States aerospace standards, products, and services abroad.  
 Sec. 252. Bilateral exchanges of safety oversight responsibilities.  
 Sec. 253. FAA leadership abroad.  
 Sec. 254. Registration, certification, and related fees.

## TITLE III—SAFETY

### Subtitle A—General Provisions

Sec. 301. FAA technical training.  
 Sec. 302. Safety critical staffing.  
 Sec. 303. International efforts regarding tracking of civil aircraft.  
 Sec. 304. Aircraft data access and retrieval systems.  
 Sec. 305. Advanced cockpit displays.  
 Sec. 306. Marking of towers.  
 Sec. 307. Cabin evacuation.  
 Sec. 308. ODA staffing and oversight.  
 Sec. 309. Funding for additional safety needs.  
 Sec. 310. Funding for additional FAA licensing needs.  
 Sec. 311. Emergency medical equipment on passenger aircraft.  
 Sec. 312. HIMS program.  
 Sec. 313. Acceptance of voluntarily provided safety information.  
 Sec. 314. Flight attendant duty period limitations and rest requirements.  
 Sec. 315. Secondary cockpit barriers.  
 Sec. 316. Aviation maintenance industry technical workforce.

- Sec. 317. Critical airfield markings.
- Sec. 318. Regulatory Reform.

#### Subtitle B—Unmanned Aircraft Systems

- Sec. 331. Definitions.
- Sec. 332. Codification of existing law; additional provisions.
- Sec. 333. Unmanned aircraft test ranges.
- Sec. 334. Sense of Congress regarding unmanned aircraft safety.
- Sec. 335. UAS privacy review.
- Sec. 336. Public UAS operations by Tribal governments.
- Sec. 337. Evaluation of aircraft registration for small unmanned aircraft.
- Sec. 338. Study on roles of governments relating to low-altitude operation of small unmanned aircraft.
- Sec. 339. Study on financing of unmanned aircraft services.
- Sec. 340. Update of FAA comprehensive plan.
- Sec. 341. Cooperation related to certain counter-UAS technology.

### TITLE IV—AIR SERVICE IMPROVEMENTS

#### Subtitle A—Airline Customer Service Improvements

- Sec. 401. Reliable air service in American Samoa.
- Sec. 402. Cell phone voice communication ban.
- Sec. 403. Advisory committee for aviation consumer protection.
- Sec. 404. Improved notification of insecticide use.
- Sec. 405. Advertisements and disclosure of fees for passenger air transportation.
- Sec. 406. Involuntarily bumping passengers after aircraft boarded.
- Sec. 407. Availability of consumer rights information.
- Sec. 408. Consumer complaints hotline.
- Sec. 409. Widespread disruptions.
- Sec. 410. Involuntarily denied boarding compensation.
- Sec. 411. Consumer information on actual flight times.
- Sec. 412. Advisory committee for transparency in air ambulance industry.
- Sec. 413. Air ambulance complaints.
- Sec. 414. Passenger rights.

#### Subtitle B—Aviation Consumers With Disabilities

- Sec. 441. Select subcommittee.
- Sec. 442. Aviation consumers with disabilities study.
- Sec. 443. Feasibility study on in-cabin wheelchair restraint systems.
- Sec. 444. Access advisory committee recommendations.

#### Subtitle C—Small Community Air Service

- Sec. 451. Essential air service authorization.
- Sec. 452. Extension of final order establishing mileage adjustment eligibility.
- Sec. 453. Study on essential air service reform.
- Sec. 454. Small community air service.
- Sec. 455. Air transportation to noneligible places.

### TITLE V—MISCELLANEOUS

- Sec. 501. Review of FAA strategic cybersecurity plan.
- Sec. 502. Consolidation and realignment of FAA services and facilities.
- Sec. 503. FAA review and reform.

- Sec. 504. Aviation fuel.
- Sec. 505. Right to privacy when using air traffic control system.
- Sec. 506. Air shows.
- Sec. 507. Part 91 review, reform, and streamlining.
- Sec. 508. Aircraft registration.
- Sec. 509. Air transportation of lithium cells and batteries.
- Sec. 510. Remote tower pilot program for rural and small communities.
- Sec. 511. Ensuring FAA readiness to provide seamless oceanic operations.
- Sec. 512. Sense of Congress regarding women in aviation.
- Sec. 513. Obstruction evaluation aeronautical studies.
- Sec. 514. Aircraft leasing.
- Sec. 515. Report on obsolete test equipment.
- Sec. 516. Pilots sharing flight expenses with passengers.
- Sec. 517. Aviation rulemaking committee for part 135 pilot rest and duty rules.
- Sec. 518. Metropolitan Washington Airports Authority.
- Sec. 519. Terminal Aerodrome Forecast.
- Sec. 520. Federal Aviation Administration employees stationed on Guam.
- Sec. 521. Technical corrections.
- Sec. 522. Application of veterans' preference to Federal Aviation Administration personnel management system.
- Sec. 523. Public aircraft eligible for logging flight times.
- Sec. 524. Federal Aviation Administration workforce review.
- Sec. 525. State taxation.
- Sec. 526. Aviation and aerospace workforce of the future.
- Sec. 527. Future aviation and aerospace workforce study.
- Sec. 528. FAA leadership on civil supersonic aircraft.
- Sec. 529. Oklahoma registry office.
- Sec. 530. Foreign air transportation under United States-European Union Air Transport Agreement.
- Sec. 531. Training on human trafficking for certain staff.
- Sec. 532. Part 107 implementation improvements.
- Sec. 533. Part 107 transparency and technology improvements.
- Sec. 534. Prohibitions against smoking on passenger flights.
- Sec. 535. Consumer protection requirements relating to large ticket agents.
- Sec. 536. FAA data transparency.
- Sec. 537. Agency procurement reporting requirements.
- Sec. 538. Zero-emission vehicles and technology.
- Sec. 539. Employee Assault Prevention and Response Plans.
- Sec. 540. Study on training of customer-facing air carrier employees.
- Sec. 541. Minimum dimensions for passenger seats.
- Sec. 542. Study of ground transportation options.

#### TITLE VI—DISASTER RECOVERY REFORM ACT

- Sec. 601. Applicability.
- Sec. 602. State defined.
- Sec. 603. Wildfire prevention.
- Sec. 604. Additional activities.
- Sec. 605. Eligibility for code implementation and enforcement.
- Sec. 606. Program improvements.
- Sec. 607. Prioritization of facilities.
- Sec. 608. Guidance on evacuation routes.
- Sec. 609. Duplication of benefits.
- Sec. 610. State administration of assistance for direct temporary housing and permanent housing construction.

- Sec. 611. Assistance to individuals and households.
- Sec. 612. Multifamily lease and repair assistance.
- Sec. 613. Private nonprofit facility.
- Sec. 614. Management costs.
- Sec. 615. Flexibility.
- Sec. 616. Additional disaster assistance.
- Sec. 617. National veterinary emergency teams.
- Sec. 618. Dispute resolution pilot program.
- Sec. 619. Unified Federal environmental and historic preservation review.
- Sec. 620. Closeout incentives.
- Sec. 621. Performance of services.
- Sec. 622. Study to streamline and consolidate information collection.
- Sec. 623. Agency accountability.
- Sec. 624. Audit of contracts.
- Sec. 625. Inspector general audit of FEMA contracts for tarps and plastic sheeting.
- Sec. 626. Relief organizations.
- Sec. 627. Guidance on inundated and submerged roads.
- Sec. 628. Authorities.
- Sec. 629. Recoupment of certain assistance prohibited.
- Sec. 630. Statute of limitations.
- Sec. 631. Technical assistance and recommendations.
- Sec. 632. Guidance on hazard mitigation assistance.
- Sec. 633. Local impact.
- Sec. 634. Additional hazard mitigation activities.
- Sec. 635. National public infrastructure predisaster hazard mitigation.
- Sec. 636. Additional mitigation activities.

## TITLE VII—FLIGHT R&D ACT

### Subtitle A—General Provisions

- Sec. 701. Short title.
- Sec. 702. Definitions.
- Sec. 703. Authorization of appropriations.

### Subtitle B—FAA Research and Development Organization

- Sec. 711. Associate Administrator for Research and Development.
- Sec. 712. Research advisory committee.

### Subtitle C—Unmanned Aircraft Systems

- Sec. 721. Unmanned aircraft systems research and development roadmap.
- Sec. 722. Probabilistic metrics for exemptions.
- Sec. 723. Probabilistic assessment of risks.
- Sec. 724. Unmanned aerial vehicle-manned aircraft collision research.
- Sec. 725. Special rule for research and development.
- Sec. 726. Beyond line-of-sight research and development.

### Subtitle D—Cybersecurity

- Sec. 731. Cyber Testbed.
- Sec. 732. Cabin communications, entertainment, and information technology systems cybersecurity vulnerabilities.
- Sec. 733. Cybersecurity threat modeling.

- Sec. 734. National Institute of Standards and Technology cybersecurity standards.
- Sec. 735. Cybersecurity research coordination.
- Sec. 736. Cybersecurity research and development program.

Subtitle E—FAA Research and Development Activities

- Sec. 741. Research plan for the certification of new technologies into the national airspace system.
- Sec. 742. Aviation fuel research, development, and usage.
- Sec. 743. Air traffic surveillance over oceans and other remote locations.
- Sec. 744. Single-piloted commercial cargo aircraft.
- Sec. 745. Electromagnetic spectrum research and development.

TITLE VIII—AVIATION REVENUE PROVISIONS

- Sec. 801. Expenditure authority from Airport and Airway Trust Fund.
- Sec. 802. Extension of taxes funding Airport and Airway Trust Fund.

1 **SEC. 2. EFFECTIVE DATE.**

2       Except as otherwise expressly provided, this Act and  
3 the amendments made by this Act shall take effect on the  
4 date of enactment of this Act.

5       **TITLE I—AUTHORIZATIONS**  
6       **Subtitle A—Funding of FAA**  
7       **Programs**

8 **SEC. 101. AIRPORT PLANNING AND DEVELOPMENT AND**  
9       **NOISE COMPATIBILITY PLANNING AND PRO-**  
10       **GRAMS.**

11       (a) AUTHORIZATION.—Section 48103(a) of title 49,  
12 United States Code, is amended by striking “section  
13 47504(c)” and all that follows through the period at the  
14 end and inserting the following: “section 47504(c)—

15               “(1) \$3,350,000,000 for fiscal year 2018;

16               “(2) \$3,350,000,000 for fiscal year 2019;

17               “(3) \$3,350,000,000 for fiscal year 2020;

1           “(4) \$3,350,000,000 for fiscal year 2021;  
2           “(5) \$3,350,000,000 for fiscal year 2022; and  
3           “(6) \$3,350,000,000 for fiscal year 2023.”.

4           (b) OBLIGATION AUTHORITY.—Section 47104(c) of  
5 title 49, United States Code, is amended in the matter  
6 preceding paragraph (1) by striking “2018,” and inserting  
7 “2023,”.

8 **SEC. 102. FACILITIES AND EQUIPMENT.**

9           (a) AUTHORIZATION OF APPROPRIATIONS FROM AIR-  
10 PORT AND AIRWAY TRUST FUND.—Section 48101(a) of  
11 title 49, United States Code, is amended by striking para-  
12 graphs (1) through (5) and inserting the following:

13           “(1) \$2,920,000,000 for fiscal year 2018.  
14           “(2) \$2,984,000,000 for fiscal year 2019.  
15           “(3) \$3,049,000,000 for fiscal year 2020.  
16           “(4) \$3,118,000,000 for fiscal year 2021.  
17           “(5) \$3,190,000,000 for fiscal year 2022.  
18           “(6) \$3,263,000,000 for fiscal year 2023.”.

19           (b) SET ASIDES.—Section 48101(d) of title 49,  
20 United States Code, is amended by inserting “, carried  
21 out using amounts appropriated under subsection (a),”  
22 after “air traffic control modernization project”.



1 **SEC. 103. FAA OPERATIONS.**

2 (a) IN GENERAL.—Section 106(k)(1) of title 49,  
3 United States Code, is amended by striking subpara-  
4 graphs (A) through (F) and inserting the following:

5 “(A) \$10,231,000,000 for fiscal year 2018;

6 “(B) \$10,434,000,000 for fiscal year 2019;

7 “(C) \$10,639,000,000 for fiscal year 2020;

8 “(D) \$10,861,000,000 for fiscal year  
9 2021;

10 “(E) \$11,095,000,000 for fiscal year 2022;

11 and

12 “(F) \$11,329,000,000 for fiscal year  
13 2023.”.

14 (b) AUTHORITY TO TRANSFER FUNDS.—Section  
15 106(k)(3) of title 49, United States Code, is amended by  
16 striking “fiscal years 2012 through 2018,” and inserting  
17 “fiscal years 2018 through 2023,”.

18 **SEC. 104. ADJUSTMENT TO AIP PROGRAM FUNDING.**

19 Section 48112 of title 49, United States Code, and  
20 the item relating to such section in the analysis for chap-  
21 ter 481 of such title, are repealed.

22 **SEC. 105. FUNDING FOR AVIATION PROGRAMS.**

23 Section 48114(a)(1)(A)(ii) of title 49, United States  
24 Code, is amended by striking “in fiscal year 2014 and  
25 each fiscal year thereafter” and inserting “in fiscal years  
26 2014 through 2018”.

1           **Subtitle B—Passenger Facility**  
2                                   **Charges**

3   **SEC. 111. PASSENGER FACILITY CHARGE MODERNIZATION.**

4           Section 40117(b) of title 49, United States Code, is  
5 amended—

6                   (1) in paragraph (1) by striking “or \$3” and  
7           inserting “\$3, \$4, or \$4.50”;

8                   (2) by repealing paragraph (4);

9                   (3) in paragraph (6)—

10                           (A) by striking “specified in paragraphs  
11           (1) and (4)” and inserting “specified in para-  
12           graph (1)”; and

13                           (B) by striking “imposed under paragraph  
14           (1) or (4)” and inserting “imposed under para-  
15           graph (1)”; and

16                   (4) in paragraph (7)(A)—

17                           (A) by striking “specified in paragraphs  
18           (1), (4), and (6)” and inserting “specified in  
19           paragraphs (1) and (6)”; and

20                           (B) by striking “imposed under paragraph  
21           (1) or (4)” and inserting “imposed under para-  
22           graph (1)”.

1 **SEC. 112. PILOT PROGRAM FOR PASSENGER FACILITY**  
2 **CHARGE AUTHORIZATIONS.**

3 Section 40117(l) of title 49, United States Code, is  
4 amended—

5 (1) in the subsection heading by striking “AT  
6 NONHUB AIRPORTS”; and

7 (2) in paragraph (1) by striking “nonhub”.

8 **Subtitle C—Airport Improvement**  
9 **Program Modifications**

10 **SEC. 121. CLARIFICATION OF AIRPORT OBLIGATION TO**  
11 **PROVIDE FAA AIRPORT SPACE.**

12 Section 44502 of title 49, United States Code, is  
13 amended by adding at the end the following:

14 “(f) AIRPORT SPACE.—

15 “(1) IN GENERAL.—Except as provided in para-  
16 graph (2), the Administrator of the Federal Aviation  
17 Administration may not require an airport owner,  
18 operator, or sponsor (as defined in section 47102) to  
19 provide building construction, maintenance, utilities,  
20 administrative support, or space on airport property  
21 to the Federal Aviation Administration without ade-  
22 quate compensation.

23 “(2) EXCEPTIONS.—Paragraph (1) does not  
24 apply in any case in which an airport owner, oper-  
25 ator, or sponsor—

1           “(A) provides land or buildings without  
2           compensation to the Federal Aviation Adminis-  
3           tration for facilities used to carry out activities  
4           related to air traffic control or navigation pur-  
5           suant to a grant assurance; or

6           “(B) provides goods or services to the Fed-  
7           eral Aviation Administration without compensa-  
8           tion or at below-market rates pursuant to a ne-  
9           gotiated agreement between the owner, oper-  
10          ator, or sponsor and the Administrator.”.

11 **SEC. 122. MOTHERS’ ROOMS AT AIRPORTS.**

12          (a) LACTATION AREA DEFINED.—Section 47102 of  
13 title 49, United States Code, is amended by adding at the  
14 end the following:

15           “(29) ‘lactation area’ means a room or other lo-  
16          cation in a commercial service airport that—

17           “(A) provides a location for members of  
18          the public to express breast milk that is shield-  
19          ed from view and free from intrusion from the  
20          public;

21           “(B) has a door that can be locked;

22           “(C) includes a place to sit, a table or  
23          other flat surface, and an electrical outlet;

1           “(D) is readily accessible to and usable by  
2 individuals with disabilities, including individ-  
3 uals who use wheelchairs; and

4           “(E) is not located in a restroom.”.

5           (b) PROJECT GRANT WRITTEN ASSURANCES FOR  
6 LARGE AND MEDIUM HUB AIRPORTS.—

7           (1) IN GENERAL.—Section 47107(a) of title 49,  
8 United States Code, is amended—

9           (A) in paragraph (20) by striking “and” at  
10 the end;

11           (B) in paragraph (21) by striking the pe-  
12 riod at the end and inserting “; and”; and

13           (C) by adding at the end the following:

14           “(22) with respect to a medium or large hub  
15 airport, the airport owner or operator will maintain  
16 a lactation area in each passenger terminal building  
17 of the airport in the sterile area (as defined in sec-  
18 tion 1540.5 of title 49, Code of Federal Regulations)  
19 of the building.”.

20           (2) APPLICABILITY.—

21           (A) IN GENERAL.—The amendment made  
22 by paragraph (1) shall apply to a project grant  
23 application submitted for a fiscal year begin-  
24 ning on or after the date that is 2 years after  
25 the date of enactment of this Act.

1           (B) SPECIAL RULE.—The requirement in  
2           the amendment made by paragraph (1) that a  
3           lactation area be located in the sterile area of  
4           a passenger terminal building shall not apply  
5           with respect to a project grant application for  
6           a period of time, determined by the Secretary  
7           of Transportation, if the Secretary determines  
8           that construction or maintenance activities  
9           make it impracticable or unsafe for the lacta-  
10          tion area to be located in the sterile area of the  
11          building.

12          (c) TERMINAL DEVELOPMENT COSTS.—Section  
13          47119(a) of title 49, United States Code, is amended by  
14          adding at the end the following:

15                 “(3) LACTATION AREAS.—In addition to the  
16          projects described in paragraph (1), the Secretary  
17          may approve a project for terminal development for  
18          the construction or installation of a lactation area at  
19          a commercial service airport.”.

20          (d) PRE-EXISTING FACILITIES.—On application by  
21          an airport sponsor, the Secretary may determine that a  
22          lactation area in existence on the date of enactment of  
23          this Act complies with the requirement of section  
24          47107(a)(22) of title 49, United States Code, as added  
25          by this section, notwithstanding the absence of one of the

1 facilities or characteristics referred to in the definition of  
2 the term “lactation area” in section 47102 of such title,  
3 as added by this section.

4 **SEC. 123. EXTENSION OF COMPETITIVE ACCESS REPORTS.**

5 Section 47107(r)(3) of title 49, United States Code,  
6 is amended by striking “2018” and inserting “2023”.

7 **SEC. 124. GRANT ASSURANCES.**

8 (a) **CONSTRUCTION OF RECREATIONAL AIRCRAFT.—**

9 Section 47107 of title 49, United States Code, is amended  
10 by adding at the end the following:

11 “(u) **CONSTRUCTION OF RECREATIONAL AIR-**  
12 **CRAFT.—**

13 “(1) **IN GENERAL.—**The construction of a cov-  
14 ered aircraft shall be treated as an aeronautical ac-  
15 tivity for purposes of—

16 “(A) determining an airport’s compliance  
17 with a grant assurance made under this section  
18 or any other provision of law; and

19 “(B) the receipt of Federal financial assist-  
20 ance for airport development.

21 “(2) **COVERED AIRCRAFT DEFINED.—**In this  
22 subsection, the term ‘covered aircraft’ means an air-  
23 craft—

24 “(A) used or intended to be used exclu-  
25 sively for recreational purposes; and

1           “(B) constructed or under construction by  
2           a private individual at a general aviation air-  
3           port.”.

4           (b) COMMUNITY USE OF AIRPORT LAND.—Section  
5 47107 of title 49, United States Code, as amended by this  
6 section, is further amended by adding at the end the fol-  
7 lowing:

8           “(v) COMMUNITY USE OF AIRPORT LAND.—

9           “(1) IN GENERAL.—Notwithstanding subsection  
10 (a)(13), and subject to paragraph (2), the sponsor  
11 of a public-use airport shall not be considered to be  
12 in violation of this subtitle, or to be found in viola-  
13 tion of a grant assurance made under this section,  
14 or under any other provision of law, as a condition  
15 for the receipt of Federal financial assistance for  
16 airport development, solely because the sponsor has  
17 entered into an agreement, including a revised  
18 agreement, with a local government providing for the  
19 use of airport property for an interim compatible  
20 recreational purpose at below fair market value.

21           “(2) RESTRICTIONS.—This subsection shall  
22 apply only—

23           “(A) to an agreement regarding airport  
24 property that was initially entered into before  
25 the publication of the Federal Aviation Admin-



1            istration’s Policy and Procedures Concerning  
2            the Use of Airport Revenue, dated February  
3            16, 1999;

4                  “(B) if the agreement between the sponsor  
5            and the local government is subordinate to any  
6            existing or future agreements between the spon-  
7            sor and the Secretary, including agreements re-  
8            lated to a grant assurance under this section;

9                  “(C) to airport property that was acquired  
10           under a Federal airport development grant pro-  
11           gram;

12                 “(D) if the airport sponsor has provided a  
13           written statement to the Administrator that the  
14           property made available for a recreational pur-  
15           pose will not be needed for any aeronautical  
16           purpose during the next 10 years;

17                 “(E) if the agreement includes a term of  
18           not more than 2 years to prepare the airport  
19           property for the interim compatible recreational  
20           purpose and not more than 10 years of use for  
21           that purpose;

22                 “(F) if the recreational purpose will not  
23           impact the aeronautical use of the airport;

24                 “(G) if the airport sponsor provides a cer-  
25           tification that the sponsor is not responsible for

1 preparation, start-up, operations, maintenance,  
2 or any other costs associated with the rec-  
3 reational purpose; and

4 “(H) if the recreational purpose is con-  
5 sistent with Federal land use compatibility cri-  
6 teria under section 47502.

7 “(3) STATUTORY CONSTRUCTION.—Nothing in  
8 this subsection may be construed as permitting a di-  
9 version of airport revenue for the capital or oper-  
10 ating costs associated with the community use of  
11 airport land.”.

12 **SEC. 125. GOVERNMENT SHARE OF PROJECT COSTS.**

13 Section 47109(a) of title 49, United States Code, is  
14 amended—

15 (1) in paragraph (1) by striking “primary air-  
16 port having at least .25 percent of the total number  
17 of passenger boardings each year at all commercial  
18 service airports;” and inserting “medium or large  
19 hub airport;”; and

20 (2) by striking paragraph (5) and inserting the  
21 following:

22 “(5) 95 percent for a project that—

23 “(A) the Administrator determines is a  
24 successive phase of a multi-phase construction

1 project for which the sponsor received a grant  
2 in fiscal year 2011; and

3 “(B) for which the United States Govern-  
4 ment’s share of allowable project costs could  
5 otherwise be 90 percent under paragraph (2) or  
6 (3).”.

7 **SEC. 126. UPDATED VETERANS’ PREFERENCE.**

8 Section 47112(c)(1)(C) of title 49, United States  
9 Code, is amended—

10 (1) by striking “or Operation New Dawn for  
11 more” and inserting “Operation New Dawn, Oper-  
12 ation Inherent Resolve, Operation Freedom’s Sen-  
13 tinel, or any successor contingency operation to such  
14 operations for more”; and

15 (2) by striking “or Operation New Dawn  
16 (whichever is later)” and inserting “Operation New  
17 Dawn, Operation Inherent Resolve, Operation Free-  
18 dom’s Sentinel, or any successor contingency oper-  
19 ation to such operations (whichever is later)”.

20 **SEC. 127. SPECIAL RULE.**

21 Section 47114(d)(3) of title 49, United States Code,  
22 is amended by adding at the end the following:

23 “(C) During fiscal years 2018 through  
24 2020—

1           “(i) an airport that accrued appor-  
2           tionment funds under subparagraph (A) in  
3           fiscal year 2013 that is listed as having an  
4           unclassified status under the most recent  
5           national plan of integrated airport systems  
6           shall continue to accrue apportionment  
7           funds under subparagraph (A) at the same  
8           amount the airport accrued apportionment  
9           funds in fiscal year 2013, subject to the  
10          conditions of this paragraph;

11          “(ii) notwithstanding the period of  
12          availability as described in section  
13          47117(b), an amount apportioned to an  
14          airport under clause (i) shall be available  
15          to the airport only during the fiscal year in  
16          which the amount is apportioned; and

17          “(iii) notwithstanding the waiver per-  
18          mitted under section 47117(c)(2), an air-  
19          port receiving apportionment funds under  
20          clause (i) may not waive its claim to any  
21          part of the apportioned funds in order to  
22          make the funds available for a grant for  
23          another public-use airport.

24          “(D) An airport that re-establishes its  
25          classified status shall be eligible to accrue ap-

1           portionment funds pursuant to subparagraph  
2           (A) so long as such airport retains its classified  
3           status.”.

4 **SEC. 128. MARSHALL ISLANDS, MICRONESIA, AND PALAU.**

5           Section 47115 of title 49, United States Code, is  
6 amended—

7           (1) by striking subsection (i);

8           (2) by redesignating subsection (j) as sub-  
9           section (i); and

10           (3) in subsection (i) (as so redesignated) by  
11           striking “fiscal years 2012 through 2018” and in-  
12           serting “fiscal years 2018 through 2023”.

13 **SEC. 129. NONDISCRIMINATION.**

14           Section 47123 of title 49, United States Code, is  
15 amended—

16           (1) by striking “The Secretary of Transpor-  
17           tation” and inserting the following:

18           “(a) IN GENERAL.—The Secretary of Transpor-  
19           tation”; and

20           (2) by adding at the end the following:

21           “(b) INDIAN EMPLOYMENT.—

22           “(1) TRIBAL SPONSOR PREFERENCE.—Con-  
23           sistent with section 703(i) of the Civil Rights Act of  
24           1964 (42 U.S.C. 2000e–2(i)), nothing in this section  
25           shall preclude the preferential employment of Indi-

1       ans living on or near a reservation on a project or  
2       contract at—

3               “(A) an airport sponsored by an Indian  
4       tribal government; or

5               “(B) an airport located on an Indian res-  
6       ervation.

7               “(2) STATE PREFERENCE.—A State may imple-  
8       ment a preference for employment of Indians on a  
9       project carried out under this subchapter near an  
10      Indian reservation.

11              “(3) IMPLEMENTATION.—The Secretary shall  
12      cooperate with Indian tribal governments and the  
13      States to implement this subsection.

14              “(4) INDIAN TRIBAL GOVERNMENT DEFINED.—  
15      In this section, the term ‘Indian tribal government’  
16      has the same meaning given that term in section  
17      102 of the Robert T. Stafford Disaster Relief and  
18      Emergency Assistance Act (42 U.S.C. 5122).”.

19   **SEC. 130. STATE BLOCK GRANT PROGRAM EXPANSION.**

20       Section 47128(a) of title 49, United States Code, is  
21      amended by striking “not more than 9 qualified States  
22      for fiscal years 2000 and 2001 and 10 qualified States  
23      for each fiscal year thereafter” and inserting “not more  
24      than 20 qualified States for each fiscal year”.

1 **SEC. 131. MIDWAY ISLAND AIRPORT.**

2 Section 186(d) of the Vision 100—Century of Avia-  
3 tion Reauthorization Act (117 Stat. 2518) is amended in  
4 the first sentence by striking “fiscal years 2012 through  
5 2018” and inserting “fiscal years 2018 through 2023”.

6 **SEC. 132. PROPERTY CONVEYANCE RELEASES.**

7 Section 817(a) of the FAA Modernization and Re-  
8 form Act of 2012 (49 U.S.C. 47125 note) is amended—

9 (1) by striking “or section 23” and inserting “,  
10 section 23”; and

11 (2) by inserting “, or section 47125 of title 49,  
12 United States Code” before the period at the end.

13 **SEC. 133. MINORITY AND DISADVANTAGED BUSINESS PAR-**  
14 **TICIPATION.**

15 Congress finds the following:

16 (1) While significant progress has occurred due  
17 to the establishment of the airport disadvantaged  
18 business enterprise program (49 U.S.C. 47107(e)  
19 and 47113), discrimination and related barriers con-  
20 tinue to pose significant obstacles for minority- and  
21 women-owned businesses seeking to do business in  
22 airport-related markets across the Nation. These  
23 continuing barriers merit the continuation of the air-  
24 port disadvantaged business enterprise program.

25 (2) Congress has received and reviewed testi-  
26 mony and documentation of race and gender dis-

1       crimination from numerous sources, including con-  
2       gressional hearings and roundtables, scientific re-  
3       ports, reports issued by public and private agencies,  
4       news stories, reports of discrimination by organiza-  
5       tions and individuals, and discrimination lawsuits.  
6       This testimony and documentation shows that race-  
7       and gender-neutral efforts alone are insufficient to  
8       address the problem.

9               (3) This testimony and documentation dem-  
10       onstrates that discrimination across the Nation  
11       poses a barrier to full and fair participation in air-  
12       port-related businesses of women business owners  
13       and minority business owners in the racial groups  
14       detailed in parts 23 and 26 of title 49, Code of Fed-  
15       eral Regulations, and has impacted firm develop-  
16       ment and many aspects of airport-related business  
17       in the public and private markets.

18              (4) This testimony and documentation provides  
19       a strong basis that there is a compelling need for the  
20       continuation of the airport disadvantaged business  
21       enterprise program and the airport concessions dis-  
22       advantaged business enterprise program to address  
23       race and gender discrimination in airport-related  
24       business.



1 **SEC. 134. CONTRACT TOWER PROGRAM.**

2 (a) AIR TRAFFIC CONTROL CONTRACT PROGRAM.—

3 (1) SPECIAL RULE.—Section 47124(b)(1)(B) of  
4 title 49, United States Code, is amended by striking  
5 “exceeds the benefit for a period of 18 months after  
6 such determination is made” and inserting the fol-  
7 lowing: “exceeds the benefit—

8 “(i) for the 1-year period after such  
9 determination is made; or

10 “(ii) if an appeal of such determina-  
11 tion is requested, for the 1-year period de-  
12 scribed in subsection (d)(4)(D)”.

13 (2) FUNDING OF COST-SHARE PROGRAM.—Sec-  
14 tion 47124(b)(3)(E) of title 49, United States Code,  
15 is amended to read as follows:

16 “(E) FUNDING.—Amounts appropriated pursu-  
17 ant to section 106(k)(1) may be used to carry out  
18 this paragraph.”.

19 (3) CONSTRUCTION OF AIR TRAFFIC CONTROL  
20 TOWERS.—

21 (A) GRANTS.—Section 47124(b)(4)(A) of  
22 title 49, United States Code, is amended in  
23 each of clauses (i)(III) and (ii)(III) by inserting  
24 “, including remote air traffic control tower  
25 equipment certified by the Federal Aviation Ad-  
26 ministration” after “1996”.

1 (B) ELIGIBILITY.—Section  
2 47124(b)(4)(B)(i)(I) of title 49, United States  
3 Code, is amended by striking “pilot”.

4 (C) LIMITATION ON FEDERAL SHARE.—  
5 Section 47124(b)(4) of title 49, United States  
6 Code, is amended by striking subparagraph (C).

7 (4) BENEFIT-TO-COST CALCULATION FOR PRO-  
8 GRAM APPLICANTS.—Section 47124(b)(3) of title 49,  
9 United States Code, is amended by adding at the  
10 end the following:

11 “(G) BENEFIT-TO-COST CALCULATION.—Not  
12 later than 90 days after receiving an application to  
13 the Contract Tower Program, the Secretary shall  
14 calculate a benefit-to-cost ratio (as described in sub-  
15 section (d)) for the applicable air traffic control  
16 tower for purposes of selecting towers for participa-  
17 tion in the Contract Tower Program.”.

18 (b) CRITERIA TO EVALUATE PARTICIPANTS.—Sec-  
19 tion 47124 of title 49, United States Code, is amended  
20 by adding at the end the following:

21 “(d) CRITERIA TO EVALUATE PARTICIPANTS.—

22 “(1) TIMING OF EVALUATIONS.—

23 “(A) TOWERS PARTICIPATING IN COST-  
24 SHARE PROGRAM.—In the case of an air traffic  
25 control tower that is operated under the pro-

1           gram established under subsection (b)(3), the  
2           Secretary shall annually calculate a benefit-to-  
3           cost ratio with respect to the tower.

4           “(B) TOWERS PARTICIPATING IN CON-  
5           TRACT TOWER PROGRAM.—In the case of an air  
6           traffic control tower that is operated under the  
7           program established under subsection (a) and  
8           continued under subsection (b)(1), the Sec-  
9           retary shall not calculate a benefit-to-cost ratio  
10          after the date of enactment of this subsection  
11          with respect to the tower unless the Secretary  
12          determines that the annual aircraft traffic at  
13          the airport where the tower is located has de-  
14          creased—

15                 “(i) by more than 25 percent from the  
16                 previous year; or

17                 “(ii) by more than 55 percent cumula-  
18                 tively in the preceding 3-year period.

19          “(2) COSTS TO BE CONSIDERED.—In estab-  
20          lishing a benefit-to-cost ratio under this section with  
21          respect to an air traffic control tower, the Secretary  
22          shall consider only the following costs:

23                 “(A) The Federal Aviation Administra-  
24                 tion’s actual cost of wages and benefits of per-  
25                 sonnel working at the tower.

1           “(B) The Federal Aviation Administra-  
2           tion’s actual telecommunications costs directly  
3           associated with the tower.

4           “(C) The Federal Aviation Administra-  
5           tion’s costs of purchasing and installing any air  
6           traffic control equipment that would not have  
7           been purchased or installed except as a result of  
8           the operation of the tower.

9           “(D) The Federal Aviation Administra-  
10          tion’s actual travel costs associated with main-  
11          taining air traffic control equipment that is  
12          owned by the Administration and would not be  
13          maintained except as a result of the operation  
14          of the tower.

15          “(E) Other actual costs of the Federal  
16          Aviation Administration directly associated with  
17          the tower that would not be incurred except as  
18          a result of the operation of the tower (excluding  
19          costs for non-contract tower related personnel  
20          and equipment, even if the personnel or equip-  
21          ment are located in the contract tower build-  
22          ing).

23          “(3) OTHER CRITERIA TO BE CONSIDERED.—In  
24          establishing a benefit-to-cost ratio under this section  
25          with respect to an air traffic control tower, the Sec-

1       retary shall add a 10 percentage point margin of  
2       error to the benefit-to-cost ratio determination to ac-  
3       knowledge and account for the direct and indirect  
4       economic and other benefits that are not included in  
5       the criteria the Secretary used in calculating that  
6       ratio.

7               “(4) REVIEW OF COST-BENEFIT DETERMINA-  
8       TIONS.—In issuing a benefit-to-cost ratio determina-  
9       tion under this section with respect to an air traffic  
10      control tower located at an airport, the Secretary  
11      shall implement the following procedures:

12              “(A) The Secretary shall provide the air-  
13      port (or the State or local government having  
14      jurisdiction over the airport) at least 90 days  
15      following the date of receipt of the determina-  
16      tion to submit to the Secretary a request for an  
17      appeal of the determination, together with up-  
18      dated or additional data in support of the ap-  
19      peal.

20              “(B) Upon receipt of a request for an ap-  
21      peal submitted pursuant to subparagraph (A),  
22      the Secretary shall—

23              “(i) transmit to the Administrator of  
24      the Federal Aviation Administration any

1 updated or additional data submitted in  
2 support of the appeal; and

3 “(ii) provide the Administrator not  
4 more than 90 days to review the data and  
5 provide a response to the Secretary based  
6 on the review.

7 “(C) After receiving a response from the  
8 Administrator pursuant to subparagraph (B),  
9 the Secretary shall—

10 “(i) provide the airport, State, or local  
11 government that requested the appeal at  
12 least 30 days to review the response; and

13 “(ii) withhold from taking further ac-  
14 tion in connection with the appeal during  
15 that 30-day period.

16 “(D) If, after completion of the appeal pro-  
17 cedures with respect to the determination, the  
18 Secretary requires the tower to transition into  
19 the program established under subsection  
20 (b)(3), the Secretary shall not require a cost-  
21 share payment from the airport, State, or local  
22 government for 1 year following the last day of  
23 the 30-day period described in subparagraph  
24 (C).”.

1 **SEC. 135. AIRPORT ACCESS ROADS IN REMOTE LOCATIONS.**

2 Notwithstanding section 47102 of title 49, United  
3 States Code, for fiscal years 2018 through 2021, the defi-  
4 nition of the term “terminal development” under that sec-  
5 tion includes the development of an airport access road  
6 that—

7 (1) is located in a noncontiguous State;

8 (2) is not more than 3 miles in length;

9 (3) connects to the nearest public roadways of  
10 not more than the 2 closest census designated  
11 places; and

12 (4) is constructed for the purpose of connecting  
13 the census designated places with a planned or  
14 newly constructed airport.

15 **SEC. 136. BUY AMERICA REQUIREMENTS.**

16 (a) NOTICE OF WAIVERS.—If the Secretary of Trans-  
17 portation determines that it is necessary to waive the ap-  
18 plication of section 50101(a) of title 49, United States  
19 Code, based on a finding under section 50101(b) of that  
20 title, the Secretary, at least 10 days before the date on  
21 which the waiver takes effect, shall—

22 (1) make publicly available, in an easily identifi-  
23 able location on the website of the Department of  
24 Transportation, a detailed written justification of  
25 the waiver determination; and

1           (2) provide an informal public notice and com-  
2           ment opportunity on the waiver determination.

3           (b) ANNUAL REPORT.—For each fiscal year, the Sec-  
4           retary shall submit to the Committee on Transportation  
5           and Infrastructure of the House of Representatives and  
6           the Committee on Commerce, Science, and Transportation  
7           of the Senate a report on waivers issued under section  
8           50101 of title 49, United States Code, during the fiscal  
9           year.

## 10           **Subtitle D—Airport Noise and** 11           **Environmental Streamlining**

### 12           **SEC. 151. RECYCLING PLANS FOR AIRPORTS.**

13           Section 47106(a)(6) of title 49, United States Code,  
14           is amended by inserting “that includes the project” before  
15           “, the master plan”.

### 16           **SEC. 152. PILOT PROGRAM SUNSET.**

17           (a) IN GENERAL.—Section 47140 of title 49, United  
18           States Code, is repealed.

19           (b) CONFORMING AMENDMENT.—Section 47140a of  
20           title 49, United States Code, is redesignated as section  
21           47140.

22           (c) CLERICAL AMENDMENTS.—The analysis for  
23           chapter 471 of title 49, United States Code, is amended—

24                   (1) by striking the items relating to sections  
25                   47140 and 47140a; and



1           (2) by inserting after the item relating to sec-  
2           tion 47139 the following:

“47140. Increasing the energy efficiency of airport power sources.”.

3 **SEC. 153. EXTENSION OF GRANT AUTHORITY FOR COMPAT-**  
4 **IBLE LAND USE PLANNING AND PROJECTS**  
5 **BY STATE AND LOCAL GOVERNMENTS.**

6           Section 47141(f) of title 49, United States Code, is  
7 amended by striking “2018” and inserting “2023”.

8 **SEC. 154. UPDATING AIRPORT NOISE EXPOSURE MAPS.**

9           Section 47503(b) of title 49, United States Code, is  
10 amended to read as follows:

11           “(b) REVISED MAPS.—

12           “(1) IN GENERAL.—An airport operator that  
13 submitted a noise exposure map under subsection  
14 (a) shall submit a revised map to the Secretary if,  
15 in an area surrounding an airport, a change in the  
16 operation of the airport would establish a substantial  
17 new noncompatible use, or would significantly reduce  
18 noise over existing noncompatible uses, that is not  
19 reflected in either the existing conditions map or  
20 forecast map currently on file with the Federal Avia-  
21 tion Administration.

22           “(2) TIMING.—A submission under paragraph  
23 (1) shall be required only if the relevant change in  
24 the operation of the airport occurs during—

1           “(A) the forecast period of the applicable  
2           noise exposure map submitted by an airport op-  
3           erator under subsection (a); or

4           “(B) the implementation period of the air-  
5           port operator’s noise compatibility program.”.

6 **SEC. 155. STAGE 3 AIRCRAFT STUDY.**

7           (a) **STUDY.**—Not later than 180 days after the date  
8 of enactment of this Act, the Comptroller General of the  
9 United States shall initiate a review of the potential bene-  
10 fits, costs, and other impacts that would result from a  
11 phaseout of covered stage 3 aircraft.

12           (b) **CONTENTS.**—The review shall include—

13               (1) a determination of the number, types, fre-  
14               quency of operations, and owners and operators of  
15               covered stage 3 aircraft;

16               (2) an analysis of the potential benefits, costs,  
17               and other impacts to air carriers, general aviation  
18               operators, airports, communities surrounding air-  
19               ports, and the general public associated with phasing  
20               out or reducing the operations of covered stage 3  
21               aircraft, assuming such a phaseout or reduction is  
22               put into effect over a reasonable period of time;

23               (3) a determination of lessons learned from the  
24               phaseout of stage 2 aircraft that might be applicable  
25               to a phaseout or reduction in the operations of cov-

1       ered stage 3 aircraft, including comparisons between  
2       the benefits, costs, and other impacts associated  
3       with the phaseout of stage 2 aircraft and the poten-  
4       tial benefits, costs, and other impacts determined  
5       under paragraph (2);

6               (4) a determination of the costs and logistical  
7       challenges associated with recertifying stage 3 air-  
8       craft capable of meeting stage 4 noise levels; and

9               (5) a determination of stakeholder views on the  
10      feasibility and desirability of phasing out covered  
11      stage 3 aircraft, including the views of—

12                   (A) air carriers;

13                   (B) airports;

14                   (C) communities surrounding airports;

15                   (D) aircraft and avionics manufacturers;

16                   (E) operators of covered stage 3 aircraft  
17      other than air carriers; and

18                   (F) such other stakeholders and aviation  
19      experts as the Comptroller General considers  
20      appropriate.

21      (c) REPORT.—Not later than 18 months after the  
22      date of enactment of this Act, the Comptroller General  
23      shall submit to the Committee on Transportation and In-  
24      frastructure of the House of Representatives and the Com-

1 mittee on Commerce, Science, and Transportation of the  
2 Senate a report on the results of the review.

3 (d) COVERED STAGE 3 AIRCRAFT DEFINED.—In this  
4 section, the term “covered stage 3 aircraft” means a civil  
5 subsonic jet aircraft that is not capable of meeting the  
6 stage 4 noise levels in part 36 of title 14, Code of Federal  
7 Regulations.

8 **SEC. 156. ADDRESSING COMMUNITY NOISE CONCERNS.**

9 When proposing a new area navigation departure pro-  
10 cedure, or amending an existing procedure that would di-  
11 rect aircraft between the surface and 6,000 feet above  
12 ground level over noise sensitive areas, the Administrator  
13 of the Federal Aviation Administration shall consider the  
14 feasibility of dispersal headings or other lateral track vari-  
15 ations to address community noise concerns, if—

16 (1) the affected airport operator, in consulta-  
17 tion with the affected community, submits a request  
18 to the Administrator for such a consideration;

19 (2) the airport operator’s request would not, in  
20 the judgment of the Administrator, conflict with the  
21 safe and efficient operation of the national airspace  
22 system; and

23 (3) the effect of a modified departure procedure  
24 would not significantly increase noise over noise sen-  
25 sitive areas, as determined by the Administrator.

1 **SEC. 157. STUDY ON POTENTIAL HEALTH IMPACTS OF**  
2 **OVERFLIGHT NOISE.**

3 (a) IN GENERAL.—Not later than 180 days after the  
4 date of enactment of this Act, the Administrator of the  
5 Federal Aviation Administration shall enter into an agree-  
6 ment with an eligible institution of higher education to  
7 conduct a study on the health impacts of noise from air-  
8 craft flights on residents exposed to a range of noise levels  
9 from such flights.

10 (b) SCOPE OF STUDY.—The study shall—

11 (1) include an examination of the incremental  
12 health impacts attributable to noise exposure that  
13 result from aircraft flights, including sleep disturb-  
14 ance and elevated blood pressure;

15 (2) be focused on residents in the metropolitan  
16 area of—

17 (A) Boston;

18 (B) Chicago;

19 (C) the District of Columbia;

20 (D) New York;

21 (E) the Northern California Metroplex;

22 (F) Phoenix;

23 (G) the Southern California Metroplex; or

24 (H) such other area as may be identified  
25 by the Administrator;

1           (3) consider, in particular, the incremental  
2 health impacts on residents living partly or wholly  
3 underneath flight paths most frequently used by air-  
4 craft flying at an altitude lower than 10,000 feet, in-  
5 cluding during takeoff or landing; and

6           (4) include an assessment of the relationship  
7 between a perceived increase in aircraft noise, in-  
8 cluding as a result of a change in flight paths that  
9 increases the visibility of aircraft from a certain lo-  
10 cation, and an actual increase in aircraft noise, par-  
11 ticularly in areas with high or variable levels of non-  
12 aircraft-related ambient noise.

13       (c) ELIGIBILITY.—An institution of higher education  
14 is eligible to conduct the study if the institution—

15           (1) has—

16               (A) a school of public health that has par-  
17 ticipated in the Center of Excellence for Air-  
18 craft Noise and Aviation Emissions Mitigation  
19 of the Federal Aviation Administration; or

20               (B) a center for environmental health that  
21 receives funding from the National Institute of  
22 Environmental Health Sciences;

23           (2) is located in one of the areas identified in  
24 subsection (b);

1           (3) applies to the Administrator in a timely  
2 fashion;

3           (4) demonstrates to the satisfaction of the Ad-  
4 ministrator that the institution is qualified to con-  
5 duct the study;

6           (5) agrees to submit to the Administrator, not  
7 later than 3 years after entering into an agreement  
8 under subsection (a), the results of the study, in-  
9 cluding any source materials used; and

10          (6) meets such other requirements as the Ad-  
11 ministrator determines necessary.

12          (d) REPORT.—Not later than 90 days after the Ad-  
13 ministrator receives the results of the study, the Adminis-  
14 trator shall submit to the Committee on Transportation  
15 and Infrastructure of the House of Representatives and  
16 the Committee on Commerce, Science, and Transportation  
17 of the Senate a report containing the results.

18 **SEC. 158. ENVIRONMENTAL MITIGATION PILOT PROGRAM.**

19          (a) IN GENERAL.—The Secretary of Transportation  
20 shall carry out a pilot program involving not more than  
21 6 projects at public-use airports in accordance with this  
22 section.

23          (b) GRANTS.—In carrying out the program, the Sec-  
24 retary may make grants to sponsors of public-use airports

1 from funds apportioned under section 47117(e)(1)(A) of  
2 title 49, United States Code.

3 (c) USE OF FUNDS.—Amounts from a grant received  
4 by the sponsor of a public-use airport under the program  
5 shall be used for environmental mitigation projects that  
6 will measurably reduce or mitigate aviation impacts on  
7 noise, air quality, or water quality at the airport or within  
8 5 miles of the airport.

9 (d) ELIGIBILITY.—Notwithstanding any other provi-  
10 sion of chapter 471 of title 49, United States Code, an  
11 environmental mitigation project approved under this sec-  
12 tion shall be treated as eligible for assistance under that  
13 chapter.

14 (e) SELECTION CRITERIA.—In selecting from among  
15 applicants for participation in the program, the Secretary  
16 may give priority consideration to projects that—

17 (1) will achieve the greatest reductions in air-  
18 craft noise, airport emissions, or airport water qual-  
19 ity impacts either on an absolute basis or on a per  
20 dollar of funds expended basis; and

21 (2) will be implemented by an eligible consor-  
22 tium.

23 (f) FEDERAL SHARE.—The Federal share of the cost  
24 of a project carried out under the program shall be 50  
25 percent.



1 (g) MAXIMUM AMOUNT.—Not more than \$2,500,000  
2 may be made available by the Secretary in grants under  
3 the program for any single project.

4 (h) IDENTIFYING BEST PRACTICES.—The Secretary  
5 may establish and publish information identifying best  
6 practices for reducing or mitigating aviation impacts on  
7 noise, air quality, and water quality at airports or in the  
8 vicinity of airports based on the projects carried out under  
9 the program.

10 (i) SUNSET.—The program shall terminate 5 years  
11 after the Secretary makes the first grant under the pro-  
12 gram.

13 (j) DEFINITIONS.—In this section, the following defi-  
14 nitions apply:

15 (1) ELIGIBLE CONSORTIUM.—The term “eligi-  
16 ble consortium” means a consortium that is com-  
17 prised of 2 or more of the following entities:

18 (A) Businesses incorporated in the United  
19 States.

20 (B) Public or private educational or re-  
21 search organizations located in the United  
22 States.

23 (C) Entities of State or local governments  
24 in the United States.

25 (D) Federal laboratories.

1           (2) ENVIRONMENTAL MITIGATION PROJECT.—

2           The term “environmental mitigation project” means  
3           a project that—

4                   (A) introduces new environmental mitiga-  
5                   tion techniques or technologies that have been  
6                   proven in laboratory demonstrations;

7                   (B) proposes methods for efficient adapta-  
8                   tion or integration of new concepts into airport  
9                   operations; and

10                   (C) will demonstrate whether new tech-  
11                   niques or technologies for environmental mitiga-  
12                   tion are—

13                           (i) practical to implement at or near  
14                           multiple public-use airports; and

15                           (ii) capable of reducing noise, airport  
16                           emissions, or water quality impacts in  
17                           measurably significant amounts.

18 **SEC. 159. AIRCRAFT NOISE EXPOSURE.**

19           (a) REVIEW.—The Administrator of the Federal  
20           Aviation Administration shall conduct a review of the rela-  
21           tionship between aircraft noise exposure and its effects on  
22           communities around airports.

23           (b) REPORT.—

24                   (1) IN GENERAL.—Not later than 2 years after  
25           the date of enactment of this Act, the Administrator

1 shall submit to Congress a report containing the re-  
2 sults of the review.

3 (2) PRELIMINARY RECOMMENDATIONS.—The  
4 report shall contain such preliminary recommenda-  
5 tions as the Administrator determines appropriate  
6 for revising the land use compatibility guidelines in  
7 part 150 of title 14, Code of Federal Regulations,  
8 based on the results of the review and in coordina-  
9 tion with other agencies.

10 **SEC. 160. COMMUNITY INVOLVEMENT IN FAA NEXTGEN**  
11 **PROJECTS LOCATED IN METROPLEXES.**

12 (a) COMMUNITY INVOLVEMENT POLICY.—Not later  
13 than 180 days after the date of enactment of this Act,  
14 the Administrator of the Federal Aviation Administration  
15 shall complete a review of the Federal Aviation Adminis-  
16 tration’s community involvement practices for Next Gen-  
17 eration Air Transportation System (NextGen) projects lo-  
18 cated in metroplexes identified by the Administration. The  
19 review shall include, at a minimum, a determination of  
20 how and when to engage airports and communities in per-  
21 formance-based navigation proposals.

22 (b) REPORT.—Not later than 60 days after comple-  
23 tion of the review, the Administrator shall submit to the  
24 Committee on Transportation and Infrastructure of the  
25 House of Representatives and the Committee on Com-

1 merce, Science, and Transportation of the Senate a report  
2 on—

3 (1) how the Administration will improve com-  
4 munity involvement practices for NextGen projects  
5 located in metroplexes;

6 (2) how and when the Administration will en-  
7 gage airports and communities in performance-based  
8 navigation proposals; and

9 (3) lessons learned from NextGen projects and  
10 pilot programs and how those lessons learned are  
11 being integrated into community involvement prac-  
12 tices for future NextGen projects located in  
13 metroplexes.

14 **SEC. 161. CRITICAL HABITAT ON OR NEAR AIRPORT PROP-**  
15 **ERTY.**

16 (a) **FEDERAL AGENCY REQUIREMENTS.**—The Sec-  
17 retary of Transportation, to the maximum extent prac-  
18 ticable, shall work with the heads of appropriate Federal  
19 agencies to ensure that designations of critical habitat, as  
20 that term is defined in section 3 of the Endangered Spe-  
21 cies Act of 1973 (16 U.S.C. 1532), on or near airport  
22 property do not—

23 (1) result in conflicting statutory, regulatory, or  
24 Federal grant assurance requirements for airports or  
25 aircraft operators;

1 (2) interfere with the safe operation of aircraft;

2 or

3 (3) occur on airport-owned lands that have be-  
4 come attractive habitat for a threatened or endan-  
5 gered species because such lands—

6 (A) have been prepared for future develop-  
7 ment;

8 (B) have been designated as noise buffer  
9 land; or

10 (C) are held by the airport to prevent en-  
11 croachment of uses that are incompatible with  
12 airport operations.

13 (b) STATE REQUIREMENTS.—In a State where a  
14 State agency is authorized to designate land on or near  
15 airport property for the conservation of a threatened or  
16 endangered species in the State, the Secretary, to the  
17 maximum extent practicable, shall work with the State in  
18 the same manner as the Secretary works with the heads  
19 of Federal agencies under subsection (a).

20 **SEC. 162. CLARIFICATION OF REIMBURSABLE ALLOWED**  
21 **COSTS OF FAA MEMORANDA OF AGREEMENT.**

22 Section 47504(c)(2) of title 49, United States Code,  
23 is amended—

24 (1) in subparagraph (D) by striking “and” at  
25 the end;

1           (2) in subparagraph (E) by striking the period  
2           at the end and inserting “; and”; and

3           (3) by adding at the end the following:

4           “(F) to an airport operator of a congested air-  
5           port (as defined in section 47175) and a unit of  
6           local government referred to in paragraph (1)(B) to  
7           carry out a project to mitigate noise, if the project—

8                   “(i) consists of—

9                           “(I) replacement windows, doors, and  
10                           the installation of through-the-wall air-con-  
11                           ditioning units; or

12                           “(II) a contribution of the equivalent  
13                           costs to be used for reconstruction, if re-  
14                           construction is the preferred local solution;

15                   “(ii) is located at a school near the airport;

16           and

17                   “(iii) is included in a memorandum of  
18                   agreement entered into before September 30,  
19                   2002, even if the airport has not met the re-  
20                   quirements of part 150 of title 14, Code of Fed-  
21                   eral Regulations, and only if the financial limi-  
22                   tations of the memorandum are applied.”.

1                   **TITLE II—FAA SAFETY**  
2                   **CERTIFICATION REFORM**  
3                   **Subtitle A—General Provisions**

4 **SEC. 201. DEFINITIONS.**

5           In this title, the following definitions apply:

6                   (1) **FAA.**—The term “FAA” means the Fed-  
7                   eral Aviation Administration.

8                   (2) **SAFETY OVERSIGHT AND CERTIFICATION**  
9                   **ADVISORY COMMITTEE.**—The term “Safety Over-  
10                   sight and Certification Advisory Committee” means  
11                   the Safety Oversight and Certification Advisory  
12                   Committee established under section 202.

13                   (3) **SYSTEMS SAFETY APPROACH.**—The term  
14                   “systems safety approach” means the application of  
15                   specialized technical and managerial skills to the  
16                   systematic, forward-looking identification and con-  
17                   trol of hazards throughout the lifecycle of a project,  
18                   program, or activity.

19 **SEC. 202. SAFETY OVERSIGHT AND CERTIFICATION ADVI-**  
20                   **SORY COMMITTEE.**

21           (a) **IN GENERAL.**—Not later than 60 days after the  
22           date of enactment of this Act, the Secretary of Transpor-  
23           tation shall establish a Safety Oversight and Certification  
24           Advisory Committee (in this section referred to as the  
25           “Advisory Committee”).

1           (b) DUTIES.—The Advisory Committee shall provide  
2 advice to the Secretary on policy-level issues facing the  
3 aviation community that are related to FAA certification  
4 and safety oversight programs and activities, including, at  
5 a minimum, the following:

6           (1) Aircraft and flight standards certification  
7 processes, including efforts to streamline those pro-  
8 cesses.

9           (2) Implementation and oversight of safety  
10 management systems.

11           (3) Risk-based oversight efforts.

12           (4) Utilization of delegation and designation au-  
13 thorities.

14           (5) Regulatory interpretation standardization  
15 efforts.

16           (6) Training programs.

17           (7) Expediting the rulemaking process and giv-  
18 ing priority to rules related to safety.

19           (c) FUNCTIONS.—The Advisory Committee shall  
20 carry out the following functions (as the functions relate  
21 to FAA certification and safety oversight programs and  
22 activities):

23           (1) Foster industry collaboration in an open  
24 and transparent manner.

25           (2) Consult with, and ensure participation by—



1 (A) the private sector, including represent-  
2 atives of—

3 (i) general aviation;

4 (ii) commercial aviation;

5 (iii) aviation labor;

6 (iv) aviation maintenance;

7 (v) aviation, aerospace, and avionics  
8 manufacturing;

9 (vi) unmanned aircraft systems opera-  
10 tors and manufacturers; and

11 (vii) the commercial space transpor-  
12 tation industry;

13 (B) members of the public; and

14 (C) other interested parties.

15 (3) Establish consensus national goals, strategic  
16 objectives, and priorities for the most efficient,  
17 streamlined, and cost-effective certification and over-  
18 sight processes in order to maintain the safety of the  
19 aviation system and, at the same time, allow the  
20 FAA to meet future needs and ensure that aviation  
21 stakeholders remain competitive in the global mar-  
22 ketplace.

23 (4) Provide policy guidance for the FAA's cer-  
24 tification and safety oversight efforts.

1           (5) Provide ongoing policy reviews of the FAA’s  
2 certification and safety oversight efforts.

3           (6) Make appropriate legislative, regulatory,  
4 and guidance recommendations for the air transpor-  
5 tation system and the aviation safety regulatory en-  
6 vironment.

7           (7) Establish performance objectives for the  
8 FAA and industry.

9           (8) Establish performance metrics and goals for  
10 the FAA and the regulated aviation industry to be  
11 tracked and reviewed as streamlining and certifi-  
12 cation reform and regulation standardization efforts  
13 progress.

14           (9) Provide a venue for tracking progress to-  
15 ward national goals and sustaining joint commit-  
16 ments.

17           (10) Develop recruiting, hiring, training, and  
18 continuing education objectives for FAA aviation  
19 safety engineers and aviation safety inspectors.

20           (11) Provide advice and recommendations to  
21 the FAA on how to prioritize safety rulemaking  
22 projects.

23           (12) Improve the development of FAA regula-  
24 tions by providing information, advice, and rec-  
25 ommendations related to aviation issues.

1           (13) Facilitate the validation of United States  
2 products abroad.

3 (d) MEMBERSHIP.—

4           (1) IN GENERAL.—The Advisory Committee  
5 shall be composed of the following members:

6           (A) The Administrator of the FAA (or the  
7 Administrator’s designee).

8           (B) Individuals appointed by the Secretary  
9 to represent the following interests:

10           (i) Aircraft and engine manufacturers.

11           (ii) Avionics and equipment manufac-  
12 turers.

13           (iii) Labor organizations, including  
14 collective bargaining representatives of  
15 FAA aviation safety inspectors and avia-  
16 tion safety engineers.

17           (iv) General aviation operators.

18           (v) Air carriers.

19           (vi) Business aviation operators.

20           (vii) Unmanned aircraft systems man-  
21 ufacturers and operators.

22           (viii) Aviation safety management ex-  
23 pertise.

24           (ix) Aviation maintenance.

25           (2) NONVOTING MEMBERS.—

1           (A) IN GENERAL.—In addition to the  
2 members appointed under paragraph (1), the  
3 Advisory Committee shall be composed of non-  
4 voting members appointed by the Secretary  
5 from among individuals representing FAA safe-  
6 ty oversight program offices.

7           (B) DUTIES.—The nonvoting members  
8 shall—

9                   (i) take part in deliberations of the  
10 Advisory Committee; and

11                   (ii) provide input with respect to any  
12 final reports or recommendations of the  
13 Advisory Committee.

14           (C) LIMITATION.—The nonvoting members  
15 may not represent any stakeholder interest  
16 other than FAA safety oversight program of-  
17 fices.

18           (3) TERMS.—Each member and nonvoting  
19 member of the Advisory Committee appointed by the  
20 Secretary shall be appointed for a term of 2 years.

21           (4) COMMITTEE CHARACTERISTICS.—The Advi-  
22 sory Committee shall have the following characteris-  
23 tics:

1           (A) An executive-level membership, with  
2 members who can represent and enter into com-  
3 mitments for their organizations.

4           (B) The ability to obtain necessary infor-  
5 mation from experts in the aviation and aero-  
6 space communities.

7           (C) A membership size that enables the  
8 Committee to have substantive discussions and  
9 reach consensus on issues in a timely manner.

10           (D) Appropriate expertise, including exper-  
11 tise in certification and risk-based safety  
12 oversight processes, operations, policy, tech-  
13 nology, labor relations, training, and finance.

14           (5) LIMITATION ON STATUTORY CONSTRUC-  
15 TION.—Public Law 104–65 (2 U.S.C. 1601 et seq.)  
16 may not be construed to prohibit or otherwise limit  
17 the appointment of any individual as a member of  
18 the Advisory Committee.

19           (e) CHAIRPERSON.—

20           (1) IN GENERAL.—The Chairperson of the Ad-  
21 visory Committee shall be appointed by the Sec-  
22 retary from among those members of the Advisory  
23 Committee that are executive-level members of the  
24 aviation industry.

1           (2) TERM.—Each member appointed under  
2 paragraph (1) shall serve a term of 1 year as Chair-  
3 person.

4 (f) MEETINGS.—

5           (1) FREQUENCY.—The Advisory Committee  
6 shall meet at least twice each year at the call of the  
7 Chairperson.

8           (2) PUBLIC ATTENDANCE.—The meetings of  
9 the Advisory Committee shall be open to the public.

10 (g) SPECIAL COMMITTEES.—

11           (1) ESTABLISHMENT.—The Advisory Com-  
12 mittee may establish special committees composed of  
13 private sector representatives, members of the pub-  
14 lic, labor representatives, and other interested par-  
15 ties in complying with consultation and participation  
16 requirements under this section.

17           (2) RULEMAKING ADVICE.—A special com-  
18 mittee established by the Advisory Committee may—

19                   (A) provide rulemaking advice and rec-  
20 ommendations to the Administrator with re-  
21 spect to aviation-related issues;

22                   (B) afford the FAA additional opportuni-  
23 ties to obtain firsthand information and insight  
24 from those parties that are most affected by ex-  
25 isting and proposed regulations; and

1 (C) expedite the development, revision, or  
2 elimination of rules without circumventing pub-  
3 lic rulemaking processes and procedures.

4 (3) APPLICABLE LAW.—Public Law 92–463  
5 shall not apply to a special committee established by  
6 the Advisory Committee.

7 (h) SUNSET.—The Advisory Committee shall termi-  
8 nate on the last day of the 6-year period beginning on  
9 the date of the initial appointment of the members of the  
10 Advisory Committee.

11 (i) TERMINATION OF AIR TRAFFIC PROCEDURES AD-  
12 VISORY COMMITTEE.—The Air Traffic Procedures Advi-  
13 sory Committee established by the FAA shall terminate  
14 on the date of the initial appointment of the members of  
15 the Advisory Committee.

## 16 **Subtitle B—Aircraft Certification** 17 **Reform**

### 18 **SEC. 211. AIRCRAFT CERTIFICATION PERFORMANCE OB-** 19 **JECTIVES AND METRICS.**

20 (a) IN GENERAL.—Not later than 120 days after the  
21 date on which the Safety Oversight and Certification Advi-  
22 sory Committee is established under section 202, the Ad-  
23 ministrator of the FAA shall establish performance objec-  
24 tives and apply and track metrics for the FAA and the

1 aviation industry relating to aircraft certification in ac-  
2 cordance with this section.

3 (b) COLLABORATION.—The Administrator shall carry  
4 out this section in collaboration with the Safety Oversight  
5 and Certification Advisory Committee.

6 (c) PERFORMANCE OBJECTIVES.—In carrying out  
7 subsection (a), the Administrator shall establish perform-  
8 ance objectives for the FAA and the aviation industry to  
9 ensure that, with respect to aircraft certification, progress  
10 is made toward, at a minimum—

11 (1) eliminating certification delays and improv-  
12 ing cycle times;

13 (2) increasing accountability for both FAA and  
14 industry entities;

15 (3) achieving full utilization of FAA delegation  
16 and designation authorities;

17 (4) fully implementing risk management prin-  
18 ciples and a systems safety approach;

19 (5) reducing duplication of effort;

20 (6) increasing transparency;

21 (7) establishing and providing training, includ-  
22 ing recurrent training, in auditing and a systems  
23 safety approach to certification oversight;



1           (8) improving the process for approving or ac-  
2           cepting certification actions between the FAA and  
3           bilateral partners;

4           (9) maintaining and improving safety;

5           (10) streamlining the hiring process for—

6                 (A) qualified systems safety engineers to  
7                 support FAA efforts to implement a systems  
8                 safety approach; and

9                 (B) qualified systems engineers to guide  
10                the engineering of complex systems within the  
11                FAA; and

12           (11) maintaining the leadership of the United  
13           States in international aviation and aerospace.

14           (d) PERFORMANCE METRICS.—In carrying out sub-  
15           section (a), the Administrator shall apply and track per-  
16           formance metrics for the FAA and the regulated aviation  
17           industry established by the Safety Oversight and Certifi-  
18           cation Advisory Committee.

19           (e) DATA GENERATION.—

20                 (1) BASELINES.—Not later than 1 year after  
21                 the date on which the Safety Oversight and Certifi-  
22                 cation Advisory Committee establishes initial per-  
23                 formance metrics for the FAA and the regulated  
24                 aviation industry under section 202, the Adminis-  
25                 trator shall generate initial data with respect to each

1 of the metrics applied and tracked under this sec-  
2 tion.

3 (2) MEASURING PROGRESS TOWARD GOALS.—

4 The Administrator shall use the metrics applied and  
5 tracked under this section to generate data on an  
6 ongoing basis and to measure progress toward the  
7 achievement of national goals established by the  
8 Safety Oversight and Certification Advisory Com-  
9 mittee.

10 (f) PUBLICATION.—The Administrator shall make  
11 data generated using the metrics applied and tracked  
12 under this section available to the public in a searchable,  
13 sortable, and downloadable format through the internet  
14 website of the FAA and other appropriate methods and  
15 shall ensure that the data is made available in a manner  
16 that—

17 (1) does not provide identifying information re-  
18 garding an individual or entity; and

19 (2) protects proprietary information.

20 **SEC. 212. ORGANIZATION DESIGNATION AUTHORIZATIONS.**

21 (a) IN GENERAL.—Chapter 447 of title 49, United  
22 States Code, is amended by adding at the end the fol-  
23 lowing:

24 **“§ 44736. Organization designation authorizations**

25 **“(a) DELEGATIONS OF FUNCTIONS.—**

1           “(1) IN GENERAL.—Except as provided in para-  
2 graph (3), when overseeing an ODA holder, the Ad-  
3 ministrator of the FAA shall—

4           “(A) require, based on an application sub-  
5 mitted by the ODA holder and approved by the  
6 Administrator (or the Administrator’s des-  
7 ignee), a procedures manual that addresses all  
8 procedures and limitations regarding the func-  
9 tions to be performed by the ODA holder;

10           “(B) delegate fully to the ODA holder each  
11 of the functions to be performed as specified in  
12 the procedures manual, unless the Adminis-  
13 trator determines, after the date of the delega-  
14 tion and as a result of an inspection or other  
15 investigation, that the public interest and safety  
16 of air commerce requires a limitation with re-  
17 spect to 1 or more of the functions; and

18           “(C) conduct regular oversight activities by  
19 inspecting the ODA holder’s delegated functions  
20 and taking action based on validated inspection  
21 findings.

22           “(2) DUTIES OF ODA HOLDERS.—An ODA  
23 holder shall—

1           “(A) perform each function delegated to  
2           the ODA holder in accordance with the ap-  
3           proved procedures manual for the delegation;

4           “(B) make the procedures manual avail-  
5           able to each member of the appropriate ODA  
6           unit; and

7           “(C) cooperate fully with oversight activi-  
8           ties conducted by the Administrator in connec-  
9           tion with the delegation.

10          “(3) EXISTING ODA HOLDERS.—With regard to  
11          an ODA holder operating under a procedures man-  
12          ual approved by the Administrator before the date of  
13          enactment of this section, the Administrator shall—

14               “(A) at the request of the ODA holder and  
15               in an expeditious manner, approve revisions to  
16               the ODA holder’s procedures manual;

17               “(B) delegate fully to the ODA holder each  
18               of the functions to be performed as specified in  
19               the procedures manual, unless the Adminis-  
20               trator determines, after the date of the delega-  
21               tion and as a result of an inspection or other  
22               investigation, that the public interest and safety  
23               of air commerce requires a limitation with re-  
24               spect to one or more of the functions; and

1           “(C) conduct regular oversight activities by  
2           inspecting the ODA holder delegated functions  
3           and taking action based on validated inspection  
4           findings.

5           “(b) ODA OFFICE.—

6           “(1) ESTABLISHMENT.—Not later than 90 days  
7           after the date of enactment of this section, the Ad-  
8           ministrators of the FAA shall identify, within the  
9           FAA Office of Aviation Safety, a centralized policy  
10          office to be known as the Organization Designation  
11          Authorization Office or the ODA Office.

12          “(2) PURPOSE.—The purpose of the ODA Of-  
13          fice shall be to oversee and ensure the consistency of  
14          the FAA’s audit functions under the ODA program  
15          across the FAA.

16          “(3) FUNCTIONS.—The ODA Office shall—

17                  “(A) improve performance and ensure full  
18                  utilization of the authorities delegated under  
19                  the ODA program;

20                  “(B) create a more consistent approach to  
21                  audit priorities, procedures, and training under  
22                  the ODA program;

23                  “(C) review, in a timely fashion, a random  
24                  sample of limitations on delegated authorities

1 under the ODA program to determine if the  
2 limitations are appropriate;

3 “(D) ensure national consistency in the in-  
4 terpretation and application of the requirements  
5 of the ODA program, including any limitations,  
6 and in the performance of the ODA program;  
7 and

8 “(E) at the request of an ODA holder, re-  
9 view and approve new limitations to ODA func-  
10 tions.

11 “(c) DEFINITIONS.—In this section, the following  
12 definitions apply:

13 “(1) FAA.—The term ‘FAA’ means the Fed-  
14 eral Aviation Administration.

15 “(2) ODA HOLDER.—The term ‘ODA holder’  
16 means an entity authorized to perform functions  
17 pursuant to a delegation made by the Administrator  
18 of the FAA under section 44702(d).

19 “(3) ODA UNIT.—The term “ODA unit”  
20 means a group of 2 or more individuals who per-  
21 form, under the supervision of an ODA holder, au-  
22 thorized functions under an ODA.

23 “(4) ORGANIZATION.—The term “organization”  
24 means a firm, partnership, corporation, company,

1 association, joint-stock association, or governmental  
2 entity.

3 “(5) ORGANIZATION DESIGNATION AUTHORIZA-  
4 TION; ODA.—The term ‘Organization Designation  
5 Authorization’ or ‘ODA’ means an authorization by  
6 the FAA under section 44702(d) for an organization  
7 comprised of 1 or more ODA units to perform ap-  
8 proved functions on behalf of the FAA.”.

9 (b) CLERICAL AMENDMENT.—The analysis for chap-  
10 ter 447 of title 49, United States Code, is amended by  
11 adding at the end the following:

“44736. Organization designation authorizations.”.

12 **SEC. 213. ODA REVIEW.**

13 (a) ESTABLISHMENT OF EXPERT REVIEW PANEL.—

14 (1) EXPERT PANEL.—Not later than 60 days  
15 after the date of enactment of this Act, the Adminis-  
16 trator of the FAA shall convene a multidisciplinary  
17 expert review panel (in this section referred to as the  
18 “Panel”).

19 (2) COMPOSITION OF PANEL.—

20 (A) APPOINTMENT OF MEMBERS.—The  
21 Panel shall be composed of not more than 20  
22 members appointed by the Administrator.

23 (B) QUALIFICATIONS.—The members ap-  
24 pointed to the Panel shall—

1 (i) each have a minimum of 5 years of  
2 experience in processes and procedures  
3 under the ODA program; and

4 (ii) represent, at a minimum, ODA  
5 holders, aviation manufacturers, safety ex-  
6 perts, and FAA labor organizations, in-  
7 cluding labor representatives of FAA avia-  
8 tion safety inspectors and aviation safety  
9 engineers.

10 (b) SURVEY.—The Panel shall conduct a survey of  
11 ODA holders and ODA program applicants to document  
12 and assess FAA certification and oversight activities, in-  
13 cluding use of the ODA program and the timeliness and  
14 efficiency of the certification process.

15 (c) ASSESSMENT AND RECOMMENDATIONS.—The  
16 Panel shall assess and make recommendations con-  
17 cerning—

18 (1) the FAA's processes and procedures under  
19 the ODA program and whether the processes and  
20 procedures function as intended;

21 (2) the best practices of and lessons learned by  
22 ODA holders and individuals who provide oversight  
23 of ODA holders;

24 (3) performance incentive policies related to the  
25 ODA program for FAA personnel;



1           (4) training activities related to the ODA pro-  
2           gram for FAA personnel and ODA holders;

3           (5) the impact, if any, that oversight of the  
4           ODA program has on FAA resources and the FAA's  
5           ability to process applications for certifications out-  
6           side of the ODA program; and

7           (6) the results of the survey conducted under  
8           subsection (b).

9           (d) REPORT.—Not later than 180 days after the date  
10          the Panel is convened under subsection (a), the Panel shall  
11          submit to the Administrator, the Safety Oversight and  
12          Certification Advisory Committee, the Committee on  
13          Transportation and Infrastructure of the House of Rep-  
14          resentatives, and the Committee on Commerce, Science,  
15          and Transportation of the Senate a report on the findings  
16          and recommendations of the Panel.

17          (e) DEFINITIONS.—The definitions contained in sec-  
18          tion 44736 of title 49, United States Code, as added by  
19          this Act, apply to this section.

20          (f) APPLICABLE LAW.—Public Law 92–463 shall not  
21          apply to the Panel.

22          (g) SUNSET.—The Panel shall terminate on the date  
23          of submission of the report under subsection (d), or on  
24          the date that is 1 year after the Panel is convened under  
25          subsection (a), whichever occurs first.

1 **SEC. 214. TYPE CERTIFICATION RESOLUTION PROCESS.**

2 (a) IN GENERAL.—Section 44704(a) of title 49,  
3 United States Code, is amended by adding at the end the  
4 following:

5 “(6) TYPE CERTIFICATION RESOLUTION PROC-  
6 ESS.—

7 “(A) IN GENERAL.—Not later than 15  
8 months after the date of enactment of this  
9 paragraph, the Administrator shall establish an  
10 effective, timely, and milestone-based issue reso-  
11 lution process for type certification activities  
12 under this subsection.

13 “(B) PROCESS REQUIREMENTS.—The res-  
14 olution process shall provide for—

15 “(i) resolution of technical issues at  
16 pre-established stages of the certification  
17 process, as agreed to by the Administrator  
18 and the type certificate applicant;

19 “(ii) automatic elevation to appro-  
20 priate management personnel of the Fed-  
21 eral Aviation Administration and the type  
22 certificate applicant of any major certifi-  
23 cation process milestone that is not com-  
24 pleted or resolved within a specific period  
25 of time agreed to by the Administrator and  
26 the type certificate applicant; and



1 ards for Normal, Utility, Acrobatic, and Commuter Cat-  
2 egory Airplanes” (81 Fed. Reg. 96572).

3 (b) CONSIDERATIONS.—In carrying out the review,  
4 the Inspector General shall assess—

5 (1) how the rule puts into practice the Adminis-  
6 tration’s efforts to implement performance and risk-  
7 based safety standards;

8 (2) whether the Administration’s implementa-  
9 tion of the rule has improved safety and reduced the  
10 regulatory cost burden for the Administration and  
11 the aviation industry; and

12 (3) if there are lessons learned from, and best  
13 practices developed as a result of, the rule that could  
14 be applied to airworthiness standards for other cat-  
15 egories of aircraft.

16 (c) REPORT.—Not later than 180 days after the date  
17 of initiation of the review, the Inspector General shall sub-  
18 mit to the Committee on Transportation and Infrastruc-  
19 ture of the House of Representatives and the Committee  
20 on Commerce, Science, and Transportation of the Senate  
21 a report on the results of the review, including findings  
22 and recommendations.

## 1           **Subtitle C—Flight Standards** 2                           **Reform**

### 3   **SEC. 231. FLIGHT STANDARDS PERFORMANCE OBJECTIVES** 4                           **AND METRICS.**

5           (a) **IN GENERAL.**—Not later than 120 days after the  
6 date on which the Safety Oversight and Certification Advi-  
7 sory Committee is established under section 202, the Ad-  
8 ministrator of the FAA shall establish performance objec-  
9 tives and apply and track metrics for the FAA and the  
10 aviation industry relating to flight standards activities in  
11 accordance with this section.

12          (b) **COLLABORATION.**—The Administrator shall carry  
13 out this section in collaboration with the Safety Oversight  
14 and Certification Advisory Committee.

15          (c) **PERFORMANCE OBJECTIVES.**—In carrying out  
16 subsection (a), the Administrator shall establish perform-  
17 ance objectives for the FAA and the aviation industry to  
18 ensure that, with respect to flight standards activities,  
19 progress is made toward, at a minimum—

20               (1) eliminating delays with respect to such ac-  
21 tivities;

22               (2) increasing accountability for both FAA and  
23 industry entities;

24               (3) achieving full utilization of FAA delegation  
25 and designation authorities;

1           (4) fully implementing risk management prin-  
2           ciples and a systems safety approach;

3           (5) reducing duplication of effort;

4           (6) eliminating inconsistent regulatory interpre-  
5           tations and inconsistent enforcement activities;

6           (7) improving and providing greater opportuni-  
7           ties for training, including recurrent training, in au-  
8           diting and a systems safety approach to oversight;

9           (8) developing and allowing utilization of a sin-  
10          gle master source for guidance;

11          (9) providing and utilizing a streamlined appeal  
12          process for the resolution of regulatory interpreta-  
13          tion questions;

14          (10) maintaining and improving safety; and

15          (11) increasing transparency.

16          (d) METRICS.—In carrying out subsection (a), the  
17          Administrator shall apply and track performance metrics  
18          for the FAA and the regulated aviation industry estab-  
19          lished by the Safety Oversight and Certification Advisory  
20          Committee.

21          (e) DATA GENERATION.—

22                (1) BASELINES.—Not later than 1 year after  
23                the date on which the Safety Oversight and Certifi-  
24                cation Advisory Committee establishes initial per-  
25                formance metrics for the FAA and the regulated

1 aviation industry under section 202, the Adminis-  
2 trator shall generate initial data with respect to each  
3 of the metrics applied and tracked under this sec-  
4 tion.

5 (2) MEASURING PROGRESS TOWARD GOALS.—  
6 The Administrator shall use the metrics applied and  
7 tracked under this section to generate data on an  
8 ongoing basis and to measure progress toward the  
9 achievement of national goals established by the  
10 Safety Oversight and Certification Advisory Com-  
11 mittee.

12 (f) PUBLICATION.—The Administrator shall make  
13 data generated using the metrics applied and tracked  
14 under this section available to the public in a searchable,  
15 sortable, and downloadable format through the internet  
16 website of the FAA and other appropriate methods and  
17 shall ensure that the data is made available in a manner  
18 that—

19 (1) does not provide identifying information re-  
20 garding an individual or entity; and

21 (2) protects proprietary information.

22 **SEC. 232. FAA TASK FORCE ON FLIGHT STANDARDS RE-**  
23 **FORM.**

24 (a) ESTABLISHMENT.—Not later than 90 days after  
25 the date of enactment of this Act, the Administrator of

1 the FAA shall establish the FAA Task Force on Flight  
2 Standards Reform (in this section referred to as the “Task  
3 Force”).

4 (b) MEMBERSHIP.—

5 (1) APPOINTMENT.—The membership of the  
6 Task Force shall be appointed by the Administrator.

7 (2) NUMBER.—The Task Force shall be com-  
8 posed of not more than 20 members.

9 (3) REPRESENTATION REQUIREMENTS.—The  
10 membership of the Task Force shall include rep-  
11 resentatives, with knowledge of flight standards reg-  
12 ulatory processes and requirements, of—

13 (A) air carriers;

14 (B) general aviation;

15 (C) business aviation;

16 (D) repair stations;

17 (E) unmanned aircraft systems operators;

18 (F) flight schools;

19 (G) labor unions, including those rep-  
20 resenting FAA aviation safety inspectors; and

21 (H) aviation safety experts.

22 (c) DUTIES.—The duties of the Task Force shall in-  
23 clude, at a minimum, identifying best practices and pro-  
24 viding recommendations, for current and anticipated  
25 budgetary environments, with respect to—



1           (1) simplifying and streamlining flight stand-  
2           ards regulatory processes;

3           (2) reorganizing Flight Standards Services to  
4           establish an entity organized by function rather than  
5           geographic region, if appropriate;

6           (3) FAA aviation safety inspector training op-  
7           portunities;

8           (4) FAA aviation safety inspector standards  
9           and performance; and

10          (5) achieving, across the FAA, consistent—

11                   (A) regulatory interpretations; and

12                   (B) application of oversight activities.

13          (d) REPORT.—Not later than 1 year after the date  
14 of enactment of this Act, the Task Force shall submit to  
15 the Committee on Transportation and Infrastructure of  
16 the House of Representatives and the Committee on Com-  
17 merce, Science, and Transportation of the Senate a report  
18 detailing—

19           (1) the best practices identified and rec-  
20           ommendations provided by the Task Force under  
21           subsection (c); and

22           (2) any recommendations of the Task Force for  
23           additional regulatory action or cost-effective legisla-  
24           tive action.

1 (e) APPLICABLE LAW.—Public Law 92–463 shall not  
2 apply to the Task Force.

3 (f) TERMINATION.—The Task Force shall terminate  
4 on the earlier of—

5 (1) the date on which the Task Force submits  
6 the report required under subsection (d); or

7 (2) the date that is 18 months after the date  
8 on which the Task Force is established under sub-  
9 section (a).

10 **SEC. 233. CENTRALIZED SAFETY GUIDANCE DATABASE.**

11 (a) ESTABLISHMENT.—Not later than 1 year after  
12 the date of enactment of this Act, the Administrator of  
13 the FAA shall establish a centralized safety guidance data-  
14 base that will—

15 (1) encompass all of the regulatory guidance  
16 documents of the FAA Office of Aviation Safety;

17 (2) contain, for each such guidance document,  
18 a link to the Code of Federal Regulations provision  
19 to which the document relates; and

20 (3) be publicly available in a manner that—

21 (A) does not provide identifying informa-  
22 tion regarding an individual or entity; and

23 (B) protects proprietary information.

24 (b) DATA ENTRY TIMING.—

1           (1) EXISTING DOCUMENTS.—Not later than 14  
2           months after the date of enactment of this Act, the  
3           Administrator shall begin entering into the database  
4           established under subsection (a) all of the regulatory  
5           guidance documents of the Office of Aviation Safety  
6           that are in effect and were issued before the date on  
7           which the Administrator begins such entry process.

8           (2) NEW DOCUMENTS AND CHANGES.—On and  
9           after the date on which the Administrator begins the  
10          document entry process under paragraph (1), the  
11          Administrator shall ensure that all new regulatory  
12          guidance documents of the Office of Aviation Safety  
13          and any changes to existing documents are included  
14          in the database established under subsection (a).

15          (c) CONSULTATION REQUIREMENT.—In establishing  
16          the database under subsection (a), the Administrator shall  
17          consult and collaborate with appropriate stakeholders, in-  
18          cluding labor organizations (including those representing  
19          aviation workers and FAA aviation safety inspectors) and  
20          industry stakeholders.

21          (d) REGULATORY GUIDANCE DOCUMENTS DE-  
22          FINED.—In this section, the term “regulatory guidance  
23          documents” means all forms of written information issued  
24          by the FAA that an individual or entity may use to inter-  
25          pret or apply FAA regulations and requirements, includ-

1 ing information an individual or entity may use to deter-  
2 mine acceptable means of compliance with such regula-  
3 tions and requirements.

4 **SEC. 234. REGULATORY CONSISTENCY COMMUNICATIONS**  
5 **BOARD.**

6 (a) **ESTABLISHMENT.**—Not later than 180 days after  
7 the date of enactment of this Act, the Administrator of  
8 the FAA shall establish a Regulatory Consistency Commu-  
9 nications Board (in this section referred to as the  
10 “Board”).

11 (b) **CONSULTATION REQUIREMENT.**—In establishing  
12 the Board, the Administrator shall consult and collaborate  
13 with appropriate stakeholders, including FAA labor orga-  
14 nizations (including labor organizations representing FAA  
15 aviation safety inspectors) and industry stakeholders.

16 (c) **MEMBERSHIP.**—The Board shall be composed of  
17 FAA representatives, appointed by the Administrator,  
18 from—

- 19 (1) the Flight Standards Service;  
20 (2) the Aircraft Certification Service; and  
21 (3) the Office of the Chief Counsel.

22 (d) **FUNCTIONS.**—The Board shall carry out the fol-  
23 lowing functions:

- 24 (1) Establish, at a minimum, processes by  
25 which—

1 (A) FAA personnel and regulated entities  
2 may submit anonymous regulatory interpreta-  
3 tion questions without fear of retaliation; and

4 (B) FAA personnel may submit written  
5 questions, and receive written responses, as to  
6 whether a previous approval or regulatory inter-  
7 pretation issued by FAA personnel in another  
8 office or region is correct or incorrect.

9 (2) Meet on a regular basis to discuss and re-  
10 solve questions submitted pursuant to paragraph (1)  
11 and the appropriate application of regulations and  
12 policy with respect to each question.

13 (3) Provide to an individual or entity that sub-  
14 mitted a question pursuant to paragraph (1) a time-  
15 ly response to the question.

16 (4) Establish a process to make resolutions of  
17 common regulatory interpretation questions publicly  
18 available to FAA personnel and regulated entities  
19 without providing any identifying data of the indi-  
20 viduals or entities that submitted the questions and  
21 in a manner that protects any proprietary informa-  
22 tion.

23 (5) Ensure the incorporation of resolutions of  
24 questions submitted pursuant to paragraph (1) into  
25 regulatory guidance documents.

1 (e) PERFORMANCE METRICS, TIMELINES, AND  
2 GOALS.—Not later than 180 days after the date on which  
3 the Safety Oversight and Certification Advisory Com-  
4 mittee establishes performance metrics for the FAA and  
5 the regulated aviation industry under section 202, the Ad-  
6 ministrator, in collaboration with the Advisory Committee,  
7 shall—

8 (1) establish performance metrics, timelines,  
9 and goals to measure the progress of the Board in  
10 resolving regulatory interpretation questions sub-  
11 mitted pursuant to subsection (d)(1); and

12 (2) implement a process for tracking the  
13 progress of the Board in meeting the metrics,  
14 timelines, and goals established under paragraph  
15 (1).

## 16 **Subtitle D—Safety Workforce**

### 17 **SEC. 241. SAFETY WORKFORCE TRAINING STRATEGY.**

18 (a) SAFETY WORKFORCE TRAINING STRATEGY.—  
19 Not later than 60 days after the date of enactment of this  
20 Act, the Administrator of the FAA shall establish a safety  
21 workforce training strategy that—

22 (1) allows employees participating in organiza-  
23 tion management teams or conducting ODA pro-  
24 gram audits to complete, in a timely fashion, appro-

1 appropriate training, including recurrent training, in au-  
2 diting and a systems safety approach to oversight;

3 (2) seeks knowledge-sharing opportunities be-  
4 tween the FAA and the aviation industry regarding  
5 new equipment and systems, best practices, and  
6 other areas of interest;

7 (3) functions within the current and anticipated  
8 budgetary environments; and

9 (4) includes milestones and metrics for meeting  
10 the requirements of paragraphs (1), (2), and (3).

11 (b) REPORT.—Not later than 270 days after the date  
12 of establishment of the strategy required under subsection  
13 (a), the Administrator shall submit to the Committee on  
14 Transportation and Infrastructure of the House of Rep-  
15 resentatives and the Committee on Commerce, Science,  
16 and Transportation of the Senate a report on the imple-  
17 mentation of the strategy and progress in meeting any  
18 milestones and metrics included in the strategy.

19 (c) DEFINITIONS.—In this section, the following defi-  
20 nitions apply:

21 (1) ODA; ODA HOLDER.—The terms “ODA”  
22 and “ODA holder” have the meanings given those  
23 terms in section 44736 of title 49, United States  
24 Code, as added by this Act.

1           (2) ORGANIZATION MANAGEMENT TEAM.—The  
2           term “organization management team” means a  
3           team consisting of FAA aviation safety engineers,  
4           flight test pilots, and aviation safety inspectors over-  
5           seeing an ODA holder and its certification activity.

6 **SEC. 242. WORKFORCE REVIEW.**

7           (a) WORKFORCE REVIEW.—Not later than 90 days  
8           after the date of enactment of this Act, the Comptroller  
9           General of the United States shall conduct a review to as-  
10          sess the workforce and training needs of the FAA Office  
11          of Aviation Safety in the anticipated budgetary environ-  
12          ment.

13          (b) CONTENTS.—The review required under sub-  
14          section (a) shall include—

15                (1) a review of current aviation safety inspector  
16                and aviation safety engineer hiring, training, and re-  
17                current training requirements;

18                (2) an analysis of the skills and qualifications  
19                required of aviation safety inspectors and aviation  
20                safety engineers for successful performance in the  
21                current and future projected aviation safety regu-  
22                latory environment, including the need for a systems  
23                engineering discipline within the FAA to guide the  
24                engineering of complex systems, with an emphasis  
25                on auditing designated authorities;



1           (3) a review of current performance incentive  
2 policies of the FAA, as applied to the Office of Avia-  
3 tion Safety, including awards for performance;

4           (4) an analysis of ways the FAA can work with  
5 industry and labor, including labor groups rep-  
6 resenting FAA aviation safety inspectors and avia-  
7 tion safety engineers, to establish knowledge-sharing  
8 opportunities between the FAA and the aviation in-  
9 dustry regarding new equipment and systems, best  
10 practices, and other areas of interest; and

11          (5) recommendations on the most effective  
12 qualifications, training programs (including e-learn-  
13 ing training), and performance incentive approaches  
14 to address the needs of the future projected aviation  
15 safety regulatory system in the anticipated budg-  
16 etary environment.

17          (c) REPORT.—Not later than 270 days after the date  
18 of enactment of this Act, the Comptroller General shall  
19 submit to the Committee on Transportation and Infra-  
20 structure of the House of Representatives and the Com-  
21 mittee on Commerce, Science, and Transportation of the  
22 Senate a report on the results of the review required under  
23 subsection (a).

## 1 **Subtitle E—International Aviation**

### 2 **SEC. 251. PROMOTION OF UNITED STATES AEROSPACE** 3 **STANDARDS, PRODUCTS, AND SERVICES** 4 **ABROAD.**

5 Section 40104 of title 49, United States Code, is  
6 amended by adding at the end the following:

7 “(d) PROMOTION OF UNITED STATES AEROSPACE  
8 STANDARDS, PRODUCTS, AND SERVICES ABROAD.—The  
9 Administrator shall take appropriate actions to—

10 “(1) promote United States aerospace safety  
11 standards abroad;

12 “(2) facilitate and vigorously defend approvals  
13 of United States aerospace products and services  
14 abroad;

15 “(3) with respect to bilateral partners, utilize  
16 bilateral safety agreements and other mechanisms to  
17 improve validation of United States type certificated  
18 aeronautical products and appliances and enhance  
19 mutual acceptance in order to eliminate  
20 redundancies and unnecessary costs; and

21 “(4) with respect to foreign safety authorities,  
22 streamline validation and coordination processes.”.

1 **SEC. 252. BILATERAL EXCHANGES OF SAFETY OVERSIGHT**  
2 **RESPONSIBILITIES.**

3 Section 44701(e) of title 49, United States Code, is  
4 amended by adding at the end the following:

5 “(5) FOREIGN AIRWORTHINESS DIRECTIVES.—

6 “(A) ACCEPTANCE.—The Administrator  
7 may accept an airworthiness directive issued by  
8 an aeronautical safety authority of a foreign  
9 country, and leverage that authority’s regu-  
10 latory process, if—

11 “(i) the country is the state of design  
12 for the product that is the subject of the  
13 airworthiness directive;

14 “(ii) the United States has a bilateral  
15 safety agreement relating to aircraft cer-  
16 tification with the country;

17 “(iii) as part of the bilateral safety  
18 agreement with the country, the Adminis-  
19 trator has determined that such aero-  
20 nautical safety authority has a certification  
21 system relating to safety that produces a  
22 level of safety equivalent to the level pro-  
23 duced by the system of the Federal Avia-  
24 tion Administration;

25 “(iv) the aeronautical safety authority  
26 of the country utilizes an open and trans-

1 parent notice and comment process in the  
2 issuance of airworthiness directives; and

3 “(v) the airworthiness directive is nec-  
4 essary to provide for the safe operation of  
5 the aircraft subject to the directive.

6 “(B) ALTERNATIVE APPROVAL PROCESS.—

7 Notwithstanding subparagraph (A), the Admin-  
8 istrator may issue a Federal Aviation Adminis-  
9 tration airworthiness directive instead of accept-  
10 ing an airworthiness directive otherwise eligible  
11 for acceptance under such subparagraph, if the  
12 Administrator determines that such issuance is  
13 necessary for safety or operational reasons due  
14 to the complexity or unique features of the Fed-  
15 eral Aviation Administration airworthiness di-  
16 rective or the United States aviation system.

17 “(C) ALTERNATIVE MEANS OF COMPLI-

18 ANCE.—The Administrator may—

19 “(i) accept an alternative means of  
20 compliance, with respect to an airworthi-  
21 ness directive accepted under subpara-  
22 graph (A), that was approved by the aero-  
23 nautical safety authority of the foreign  
24 country that issued the airworthiness di-  
25 rective; or

1                   “(ii) notwithstanding subparagraph  
2                   (A), and at the request of any person af-  
3                   fected by an airworthiness directive accept-  
4                   ed under such subparagraph, approve an  
5                   alternative means of compliance with re-  
6                   spect to the airworthiness directive.

7                   “(D) LIMITATION.—The Administrator  
8                   may not accept an airworthiness directive  
9                   issued by an aeronautical safety authority of a  
10                  foreign country if the airworthiness directive  
11                  addresses matters other than those involving  
12                  the safe operation of an aircraft.”.

13 **SEC. 253. FAA LEADERSHIP ABROAD.**

14                  (a) IN GENERAL.—To promote United States aero-  
15                  space safety standards, reduce redundant regulatory activ-  
16                  ity, and facilitate acceptance of FAA design and produc-  
17                  tion approvals abroad, the Administrator of the FAA  
18                  shall—

19                         (1) attain greater expertise in issues related to  
20                         dispute resolution, intellectual property, and export  
21                         control laws to better support FAA certification and  
22                         other aerospace regulatory activities abroad;

23                         (2) work with United States companies to more  
24                         accurately track the amount of time it takes foreign  
25                         authorities, including bilateral partners, to validate

1 United States type certificated aeronautical prod-  
2 ucts;

3 (3) provide assistance to United States compa-  
4 nies that have experienced significantly long foreign  
5 validation wait times;

6 (4) work with foreign authorities, including bi-  
7 lateral partners, to collect and analyze data to deter-  
8 mine the timeliness of the acceptance and validation  
9 of FAA design and production approvals by foreign  
10 authorities and the acceptance and validation of for-  
11 eign-certified products by the FAA;

12 (5) establish appropriate benchmarks and  
13 metrics to measure the success of bilateral aviation  
14 safety agreements and to reduce the validation time  
15 for United States type certificated aeronautical  
16 products abroad; and

17 (6) work with foreign authorities, including bi-  
18 lateral partners, to improve the timeliness of the ac-  
19 ceptance and validation of FAA design and produc-  
20 tion approvals by foreign authorities and the accept-  
21 ance and validation of foreign-certified products by  
22 the FAA.

23 (b) REPORT.—Not later than 1 year after the date  
24 of enactment of this Act, the Administrator of the FAA  
25 shall submit to the Committee on Transportation and In-

1 frastructure of the House of Representatives and the Com-  
2 mittee on Commerce, Science, and Transportation of the  
3 Senate a report that—

4           (1) describes the FAA’s strategic plan for inter-  
5           national engagement;

6           (2) describes the structure and responsibilities  
7           of all FAA offices that have international respon-  
8           sibilities, including the Aircraft Certification Office,  
9           and all the activities conducted by those offices re-  
10          lated to certification and production;

11          (3) describes current and forecasted staffing  
12          and travel needs for the FAA’s international engage-  
13          ment activities, including the needs of the Aircraft  
14          Certification Office in the current and forecasted  
15          budgetary environment;

16          (4) provides recommendations, if appropriate,  
17          to improve the existing structure and personnel and  
18          travel policies supporting the FAA’s international  
19          engagement activities, including the activities of the  
20          Aviation Certification Office, to better support the  
21          growth of United States aerospace exports; and

22          (5) identifies cost-effective policy initiatives,  
23          regulatory initiatives, or legislative initiatives needed  
24          to improve and enhance the timely acceptance of  
25          United States aerospace products abroad.

1 (c) INTERNATIONAL TRAVEL.—The Administrator of  
2 the FAA, or the Administrator’s designee, may authorize  
3 international travel for any FAA employee, without the  
4 approval of any other person or entity, if the Adminis-  
5 trator determines that the travel is necessary—

6 (1) to promote United States aerospace safety  
7 standards; or

8 (2) to support expedited acceptance of FAA de-  
9 sign and production approvals.

10 **SEC. 254. REGISTRATION, CERTIFICATION, AND RELATED**  
11 **FEES.**

12 Section 45305 of title 49, United States Code, is  
13 amended—

14 (1) in subsection (a) by striking “Subject to  
15 subsection (b)” and inserting “Subject to subsection  
16 (c)”;

17 (2) by redesignating subsections (b) and (c) as  
18 subsections (c) and (d), respectively; and

19 (3) by inserting after subsection (a) the fol-  
20 lowing:

21 “(b) CERTIFICATION SERVICES.—Subject to sub-  
22 section (c), and notwithstanding section 45301(a), the Ad-  
23 ministrator may establish and collect a fee from a foreign  
24 government or entity for services related to certification,  
25 regardless of where the services are provided, if the fee—



1           “(1) is established and collected in a manner  
2 consistent with aviation safety agreements; and

3           “(2) does not exceed the estimated costs of the  
4 services.”.

## 5           **TITLE III—SAFETY**

### 6           **Subtitle A—General Provisions**

#### 7           **SEC. 301. FAA TECHNICAL TRAINING.**

8           (a) E-LEARNING TRAINING PILOT PROGRAM.—Not  
9 later than 90 days after the date of enactment of this Act,  
10 the Administrator of the Federal Aviation Administration,  
11 in collaboration with the exclusive bargaining representa-  
12 tives of covered FAA personnel, shall establish an e-learn-  
13 ing training pilot program in accordance with the require-  
14 ments of this section.

15           (b) CURRICULUM.—The pilot program shall—

16               (1) include a recurrent training curriculum for  
17 covered FAA personnel to ensure that the personnel  
18 receive instruction on the latest aviation tech-  
19 nologies, processes, and procedures;

20               (2) focus on providing specialized technical  
21 training for covered FAA personnel, as determined  
22 necessary by the Administrator;

23               (3) include training courses on applicable regu-  
24 lations of the Federal Aviation Administration; and

1           (4) consider the efficacy of instructor-led online  
2           training.

3           (c) PILOT PROGRAM TERMINATION.—The pilot pro-  
4           gram shall terminate 1 year after the date of establish-  
5           ment of the pilot program.

6           (d) E-LEARNING TRAINING PROGRAM.—Upon termi-  
7           nation of the pilot program, the Administrator shall estab-  
8           lish an e-learning training program that incorporates les-  
9           sons learned for covered FAA personnel as a result of the  
10          pilot program.

11          (e) DEFINITIONS.—In this section, the following defi-  
12          nitions apply:

13           (1) COVERED FAA PERSONNEL.—The term  
14           “covered FAA personnel” means airway transpor-  
15           tation systems specialists and aviation safety inspec-  
16           tors of the Federal Aviation Administration.

17           (2) E-LEARNING TRAINING.—The term “e-  
18           learning training” means learning utilizing electronic  
19           technologies to access educational curriculum outside  
20           of a traditional classroom.

21 **SEC. 302. SAFETY CRITICAL STAFFING.**

22          (a) UPDATE OF FAA’S SAFETY CRITICAL STAFFING  
23          MODEL.—Not later than 270 days after the date of enact-  
24          ment of this Act, the Administrator of the Federal Avia-  
25          tion Administration shall update the safety critical staff-

1 ing model of the Administration to determine the number  
2 of aviation safety inspectors that will be needed to fulfill  
3 the safety oversight mission of the Administration.

4 (b) AUDIT BY DOT INSPECTOR GENERAL.—

5 (1) IN GENERAL.—Not later than 90 days after  
6 the date on which the Administrator has updated  
7 the safety critical staffing model under subsection  
8 (a), the Inspector General of the Department of  
9 Transportation shall conduct an audit of the staffing  
10 model.

11 (2) CONTENTS.—The audit shall include, at a  
12 minimum—

13 (A) a review of the assumptions and meth-  
14 odologies used in devising and implementing the  
15 staffing model to assess the adequacy of the  
16 staffing model in predicting the number of avia-  
17 tion safety inspectors needed—

18 (i) to properly fulfill the mission of  
19 the Administration; and

20 (ii) to meet the future growth of the  
21 aviation industry; and

22 (B) a determination on whether the staff-  
23 ing model takes into account the Administra-  
24 tion's authority to fully utilize designees.

25 (3) REPORT ON AUDIT.—

1 (A) REPORT TO SECRETARY.—Not later  
2 than 30 days after the date of completion of the  
3 audit, the Inspector General shall submit to the  
4 Secretary a report on the results of the audit.

5 (B) REPORT TO CONGRESS.—Not later  
6 than 60 days after the date of receipt of the re-  
7 port, the Secretary shall submit to the Com-  
8 mittee on Transportation and Infrastructure of  
9 the House of Representatives and the Com-  
10 mittee on Commerce, Science, and Transpor-  
11 tation of the Senate a copy of the report, to-  
12 gether with, if appropriate, a description of any  
13 actions taken or to be taken to address the re-  
14 sults of the audit.

15 **SEC. 303. INTERNATIONAL EFFORTS REGARDING TRACK-**  
16 **ING OF CIVIL AIRCRAFT.**

17 The Administrator of the Federal Aviation Adminis-  
18 tration shall exercise leadership on creating a global ap-  
19 proach to improving aircraft tracking by working with—

20 (1) foreign counterparts of the Administrator in  
21 the International Civil Aviation Organization and its  
22 subsidiary organizations;

23 (2) other international organizations and fora;  
24 and

25 (3) the private sector.

1 **SEC. 304. AIRCRAFT DATA ACCESS AND RETRIEVAL SYS-**  
2 **TEMS.**

3 (a) **ASSESSMENT.**—Not later than 90 days after the  
4 date of enactment of this Act, the Administrator of the  
5 Federal Aviation Administration shall initiate an assess-  
6 ment of aircraft data access and retrieval systems for part  
7 121 air carrier aircraft that are used in extended  
8 overwater operations to—

9 (1) determine if the systems provide improved  
10 access and retrieval of aircraft data and cockpit  
11 voice recordings in the event of an aircraft accident;  
12 and

13 (2) assess the cost effectiveness of each system  
14 assessed.

15 (b) **SYSTEMS TO BE EXAMINED.**—The systems to be  
16 examined under this section shall include, at a minimum—

- 17 (1) automatic deployable flight recorders;  
18 (2) emergency locator transmitters; and  
19 (3) satellite-based solutions.

20 (c) **REPORT.**—Not later than 1 year after the date  
21 of initiation of the assessment, the Administrator shall  
22 submit to the Committee on Transportation and Infra-  
23 structure of the House of Representatives and the Com-  
24 mittee on Commerce, Science, and Transportation of the  
25 Senate a report on the results of the assessment.

1 (d) PART 121 AIR CARRIER DEFINED.—In this sec-  
2 tion, the term “part 121 air carrier” means an air carrier  
3 that holds a certificate issued under part 121 of title 14,  
4 Code of Federal Regulations.

5 **SEC. 305. ADVANCED COCKPIT DISPLAYS.**

6 (a) IN GENERAL.—Not later than 180 days after the  
7 date of enactment of this Act, the Administrator of the  
8 Federal Aviation Administration shall initiate a review of  
9 heads-up display systems, heads-down display systems em-  
10 ploying synthetic vision systems, and enhanced vision sys-  
11 tems (in this section referred to as “HUD systems”,  
12 “SVS”, and “EVS”, respectively).

13 (b) CONTENTS.—The review shall—

14 (1) evaluate the impacts of single- and dual-in-  
15 stalled HUD systems, SVS, and EVS on the safety  
16 and efficiency of aircraft operations within the na-  
17 tional airspace system; and

18 (2) review a sufficient quantity of commercial  
19 aviation accidents or incidents in order to evaluate  
20 if HUD systems, SVS, and EVS would have pro-  
21 duced a better outcome in that accident or incident.

22 (c) CONSULTATION.—In conducting the review, the  
23 Administrator shall consult with aviation manufacturers,  
24 representatives of pilot groups, aviation safety organiza-

1 tions, and any government agencies the Administrator  
2 considers appropriate.

3 (d) REPORT.—Not later than 1 year after the date  
4 of enactment of this Act, the Administrator shall submit  
5 to the Committee on Transportation and Infrastructure  
6 of the House of Representatives and the Committee on  
7 Commerce, Science, and Transportation of the Senate a  
8 report containing the results of the review, the actions the  
9 Administrator plans to take with respect to the systems  
10 reviewed, and the associated timeline for such actions.

11 **SEC. 306. MARKING OF TOWERS.**

12 Section 2110 of the FAA Extension, Safety, and Se-  
13 curity Act of 2016 (49 U.S.C. 44718 note) is amended—

14 (1) by striking subsections (a) through (c) and  
15 inserting the following:

16 “(a) APPLICATION.—

17 “(1) IN GENERAL.—Except as provided by  
18 paragraph (2), not later than 1 year after the date  
19 of enactment of the FAA Reauthorization Act of  
20 2018 or the availability of the database developed by  
21 the Administrator of the Federal Aviation Adminis-  
22 tration pursuant to subsection (c), whichever is  
23 later, all covered towers shall be either—

24 “(A) clearly marked consistent with appli-  
25 cable guidance in the advisory circular of the

1 Federal Aviation Administration issued Decem-  
2 ber 4, 2015 (AC 70/7460–IL); or

3 “(B) included in the database described in  
4 subsection (c).

5 “(2) METEOROLOGICAL EVALUATION TOWER.—  
6 A covered tower that is a meteorological evaluation  
7 tower shall be subject to the requirements of para-  
8 graphs (1)(A) and (1)(B).”;

9 (2) by redesignating subsections (d) and (e) as  
10 subsections (b) and (c), respectively;

11 (3) in subsection (b)(1)(A) (as so redesign-  
12 nated)—

13 (A) in clause (i)(I) by striking “self-stand-  
14 ing or” and inserting “a meteorological evalua-  
15 tion tower or tower”; and

16 (B) in clause (ii)—

17 (i) in subclause (IV) by striking “or”  
18 at the end;

19 (ii) in subclause (V) by striking the  
20 period at the end and inserting a semi-  
21 colon; and

22 (iii) by adding at the end the fol-  
23 lowing:

24 “(VI) is located within the right-  
25 of-way of a rail carrier, including



1 within the boundaries of a rail yard,  
2 and is used for a railroad purpose;

3 “(VII) is determined by the Ad-  
4 ministrator to pose no hazard to air  
5 navigation; or

6 “(VIII) has already mitigated  
7 any hazard to aviation safety in ac-  
8 cordance with Federal Aviation Ad-  
9 ministration guidance or as otherwise  
10 approved by the Administrator.”; and

11 (4) in subsection (c) (as so redesignated)—

12 (A) by striking paragraph (1) and insert-  
13 ing the following:

14 “(1) develop a database that contains the loca-  
15 tion and height of each covered tower that, pursuant  
16 to subsection (a), the owner or operator of such  
17 tower elects not to mark, except that meteorological  
18 evaluation towers shall be marked and contained in  
19 the database;”;

20 (B) in paragraph (3) by striking “and” at  
21 the end;

22 (C) in paragraph (4) by striking the period  
23 at the end and inserting a semicolon; and

24 (D) by adding at the end the following:

1           “(5) ensure that the tower information in the  
2           database is de-identified and that the information  
3           only includes the location and height of covered tow-  
4           ers; and

5           “(6) make the database available for use not  
6           later than 1 year after the date of enactment of the  
7           FAA Reauthorization Act of 2018.”.

8   **SEC. 307. CABIN EVACUATION.**

9           (a) **REVIEW.**—The Administrator of the Federal  
10          Aviation Administration shall review—

11           (1) evacuation certification of transport-cat-  
12          egory aircraft used in air transportation, with regard  
13          to—

14           (A) emergency conditions, including im-  
15          pacts into water;

16           (B) crew procedures used for evacuations  
17          under actual emergency conditions; and

18           (C) any relevant changes to passenger de-  
19          mographics and legal requirements (including  
20          the Americans with Disabilities Act of 1990)  
21          that affect emergency evacuations; and

22           (2) recent accidents and incidents where pas-  
23          sengers evacuated such aircraft.

24          (b) **CONSULTATION; REVIEW OF DATA.**—In con-  
25          ducting the review, the Administrator shall—

1           (1) consult with the National Transportation  
2       Safety Board, transport-category aircraft manufac-  
3       turers, air carriers, and other relevant experts and  
4       Federal agencies, including groups representing pas-  
5       sengers, airline crewmembers, maintenance employ-  
6       ees, and emergency responders; and

7           (2) review relevant data with respect to evacu-  
8       ation certification of transport-category aircraft.

9       (c) **REPORT TO CONGRESS.**—Not later than 1 year  
10   after the date of enactment of this Act, the Administrator  
11   shall submit to the Committee on Transportation and In-  
12   frastructure of the House of Representatives and the Com-  
13   mittee on Commerce, Science, and Transportation of the  
14   Senate a report on the results of the review and related  
15   recommendations, if any, including any recommendations  
16   for revisions to the assumptions and methods used for as-  
17   sessing evacuation certification of transport-category air-  
18   craft.

19   **SEC. 308. ODA STAFFING AND OVERSIGHT.**

20       (a) **REPORT TO CONGRESS.**—Not later than 270 days  
21   after the date of enactment of this Act, the Administrator  
22   of the Federal Aviation Administration shall submit to the  
23   Committee on Transportation and Infrastructure of the  
24   House of Representatives and the Committee on Com-

1 merce, Science, and Transportation of the Senate a report  
2 on the Administration’s progress with respect to—

3 (1) determining what additional model inputs  
4 and labor distribution codes are needed to identify  
5 ODA oversight staffing needs;

6 (2) developing and implementing system-based  
7 evaluation criteria and risk-based tools to aid ODA  
8 team members in targeting their oversight activities;

9 (3) developing agreements and processes for  
10 sharing resources to ensure adequate oversight of  
11 ODA personnel performing certification and inspec-  
12 tion work at supplier and company facilities; and

13 (4) ensuring full utilization of ODA authority.

14 (b) ODA DEFINED.—In this section, the term  
15 “ODA” has the meaning given that term in section 44736  
16 of title 49, United States Code, as added by this Act.

17 **SEC. 309. FUNDING FOR ADDITIONAL SAFETY NEEDS.**

18 Section 44704 of title 49, United States Code, is  
19 amended by adding at the end the following:

20 “(f) FUNDING FOR ADDITIONAL SAFETY NEEDS.—

21 “(1) ACCEPTANCE OF APPLICANT-PROVIDED  
22 FUNDS.—Notwithstanding any other provision of  
23 law, the Administrator may accept funds from an  
24 applicant for a certificate under this section to hire  
25 additional staff or obtain the services of consultants

1 and experts to facilitate the timely processing, re-  
2 view, and issuance of certificates under this section.

3 “(2) RULES OF CONSTRUCTION.—

4 “(A) IN GENERAL.—Nothing in this sec-  
5 tion may be construed as permitting the Admin-  
6 istrator to grant priority or afford any pref-  
7 erence to an applicant providing funds under  
8 paragraph (1).

9 “(B) POLICIES AND PROCEDURES.—The  
10 Administrator shall implement such policies and  
11 procedures as may be required to ensure that  
12 the acceptance of funds under paragraph (1)  
13 does not prejudice the Administrator in the  
14 issuance of any certificate to an applicant.

15 “(3) RECEIPTS CREDITED AS OFFSETTING COL-  
16 LECTIONS.—Notwithstanding section 3302 of title  
17 31, any funds accepted under this subsection—

18 “(A) shall be credited as offsetting collec-  
19 tions to the account that finances the activities  
20 and services for which the funds are accepted;

21 “(B) shall be available for expenditure only  
22 to pay the costs of activities and services for  
23 which the funds are accepted; and

24 “(C) shall remain available until ex-  
25 pended.”.

1 **SEC. 310. FUNDING FOR ADDITIONAL FAA LICENSING**  
2 **NEEDS.**

3 (a) IN GENERAL.—Chapter 509 of title 51, United  
4 States Code, is amended by adding at the end the fol-  
5 lowing:

6 **“§ 50924. Funding to facilitate FAA licensing**

7 “(a) IN GENERAL.—Notwithstanding any other pro-  
8 vision of law, the Secretary of Transportation may accept  
9 funds from a person applying for a license or permit under  
10 this chapter to hire additional staff or obtain the services  
11 of consultants and experts—

12 “(1) to facilitate the timely processing, review,  
13 and issuance of licenses or permits issued under this  
14 chapter;

15 “(2) to conduct environmental activities, stud-  
16 ies, or reviews associated with such licenses or per-  
17 mits; or

18 “(3) to conduct additional activities associated  
19 with or necessitated by such licenses or permits, in-  
20 cluding pre-application consultation, hazard area de-  
21 termination, or on-site inspection.

22 “(b) RULES OF CONSTRUCTION.—

23 “(1) IN GENERAL.—Nothing in this section  
24 may be construed as permitting the Secretary to  
25 grant priority or afford any preference to an appli-  
26 cant providing funds under subsection (a).

1           “(2) POLICIES AND PROCEDURES.—The Sec-  
 2           retary shall implement such policies and procedures  
 3           as may be required to ensure that the acceptance of  
 4           funds under subsection (a) does not prejudice the  
 5           Secretary in the issuance of any license or permit to  
 6           an applicant.

7           “(c) RECEIPTS CREDITED AS OFFSETTING COLLEC-  
 8           TIONS.—Notwithstanding section 3302 of title 31, any  
 9           funds accepted under this section—

10           “(1) shall be credited as offsetting collections to  
 11           the account that finances the activities and services  
 12           for which the funds are accepted;

13           “(2) shall be available for expenditure only to  
 14           pay the costs of activities and services for which the  
 15           funds are accepted; and

16           “(3) shall remain available until expended.”.

17           (b) CLERICAL AMENDMENT.—The analysis for chap-  
 18           ter 509 of title 51, United States Code, is amended by  
 19           adding at the end the following:

“50924. Funding to facilitate FAA licensing.”.

20           **SEC. 311. EMERGENCY MEDICAL EQUIPMENT ON PAS-**  
 21           **SENGER AIRCRAFT.**

22           (a) IN GENERAL.—Not later than 1 year after the  
 23           date of enactment of this Act, the Administrator of the  
 24           Federal Aviation Administration shall evaluate and revise,  
 25           as appropriate, regulations in part 121 of title 14, Code

1 of Federal Regulations, regarding emergency medical  
2 equipment, including the contents of first-aid kits, applica-  
3 ble to all certificate holders operating passenger aircraft  
4 under that part.

5 (b) CONSIDERATION.—In carrying out subsection (a),  
6 the Administrator shall consider whether the minimum  
7 contents of approved emergency medical kits, including  
8 approved first-aid kits, include appropriate medications  
9 and equipment to meet the emergency medical needs of  
10 children.

11 **SEC. 312. HIMS PROGRAM.**

12 Not later than 180 days after the date of enactment  
13 of this Act, the Administrator of the Federal Aviation Ad-  
14 ministration shall conduct a human intervention motiva-  
15 tion study (HIMS) program for flight crewmembers em-  
16 ployed by commercial air carriers operating in United  
17 States airspace.

18 **SEC. 313. ACCEPTANCE OF VOLUNTARILY PROVIDED SAFE-**  
19 **TY INFORMATION.**

20 (a) IN GENERAL.—There shall be a presumption that  
21 an individual's voluntary disclosure of an operational or  
22 maintenance issue related to aviation safety under an avia-  
23 tion safety action program meets the criteria for accept-  
24 ance as a valid disclosure under such program.



1 (b) **DISCLAIMER REQUIRED.**—Any dissemination of  
2 a disclosure that was submitted and accepted under an  
3 aviation safety action program pursuant to the presump-  
4 tion under subsection (a), but that has not undergone re-  
5 view by an event review committee, shall be accompanied  
6 by a disclaimer stating that the disclosure—

7 (1) has not been reviewed by an event review  
8 committee tasked with reviewing such disclosures;  
9 and

10 (2) may subsequently be determined to be ineli-  
11 gible for inclusion in the aviation safety action pro-  
12 gram.

13 (c) **REJECTION OF DISCLOSURE.**—A disclosure de-  
14 scribed under subsection (a) shall be rejected from an  
15 aviation safety action program if, after a review of the dis-  
16 closure, an event review committee tasked with reviewing  
17 such disclosures determines that the disclosure fails to  
18 meet the criteria for acceptance under such program.

19 (d) **AVIATION SAFETY ACTION PROGRAM DE-**  
20 **FINED.**—In this section, the term “aviation safety action  
21 program” means a program established in accordance with  
22 Federal Aviation Administration Advisory Circular 120–  
23 66B, issued November 15, 2002 (including any similar  
24 successor advisory circular), to allow an individual to vol-

1 untarily disclose operational or maintenance issues related  
2 to aviation safety.

3 **SEC. 314. FLIGHT ATTENDANT DUTY PERIOD LIMITATIONS**  
4 **AND REST REQUIREMENTS.**

5 (a) MODIFICATION OF FINAL RULE.—

6 (1) IN GENERAL.—Not later than 30 days after  
7 the date of enactment of this Act, the Secretary of  
8 Transportation shall modify the final rule of the  
9 Federal Aviation Administration published in the  
10 Federal Register on August 19, 1994 (59 Fed. Reg.  
11 42974; relating to flight attendant duty period limi-  
12 tations and rest requirements) in accordance with  
13 the requirements of this subsection.

14 (2) CONTENTS.—The final rule, as modified  
15 under paragraph (1), shall ensure that—

16 (A) a flight attendant scheduled to a duty  
17 period of 14 hours or less is given a scheduled  
18 rest period of at least 10 consecutive hours; and

19 (B) the rest period is not reduced under  
20 any circumstances.

21 (b) FATIGUE RISK MANAGEMENT PLAN.—

22 (1) SUBMISSION OF PLAN BY PART 121 AIR CAR-  
23 RIERS.—Not later than 90 days after the date of en-  
24 actment of this Act, each air carrier operating under  
25 part 121 of title 14, Code of Federal Regulations (in

1 this section referred to as a “part 121 air carrier”),  
2 shall submit to the Administrator of the Federal  
3 Aviation Administration for review and acceptance a  
4 fatigue risk management plan for the carrier’s flight  
5 attendants.

6 (2) CONTENTS OF PLAN.—A fatigue risk man-  
7 agement plan submitted by a part 121 air carrier  
8 under paragraph (1) shall include the following:

9 (A) Current flight time and duty period  
10 limitations.

11 (B) A rest scheme consistent with such  
12 limitations that enables the management of  
13 flight attendant fatigue, including annual train-  
14 ing to increase awareness of—

15 (i) fatigue;

16 (ii) the effects of fatigue on flight at-  
17 tendants; and

18 (iii) fatigue countermeasures.

19 (C) Development and use of a methodology  
20 that continually assesses the effectiveness of im-  
21 plementation of the plan, including the ability  
22 of the plan—

23 (i) to improve alertness; and

24 (ii) to mitigate performance errors.

1           (3) REVIEW.—Not later than 1 year after the  
2           date of enactment of this Act, the Administrator  
3           shall review and accept or reject each fatigue risk  
4           management plan submitted under this subsection.  
5           If the Administrator rejects a plan, the Adminis-  
6           trator shall provide suggested modifications for re-  
7           submission of the plan.

8           (4) PLAN UPDATES.—

9           (A) IN GENERAL.—A part 121 air carrier  
10          shall update its fatigue risk management plan  
11          under paragraph (1) every 2 years and submit  
12          the update to the Administrator for review and  
13          acceptance.

14          (B) REVIEW.—Not later than 1 year after  
15          the date of submission of a plan update under  
16          subparagraph (A), the Administrator shall re-  
17          view and accept or reject the update. If the Ad-  
18          ministrator rejects an update, the Adminis-  
19          trator shall provide suggested modifications for  
20          resubmission of the update.

21          (5) COMPLIANCE.—A part 121 air carrier shall  
22          comply with the fatigue risk management plan of the  
23          air carrier that is accepted by the Administrator  
24          under this subsection.

1           (6) CIVIL PENALTIES.—A violation of this sub-  
2           section by a part 121 air carrier shall be treated as  
3           a violation of chapter 447 of title 49, United States  
4           Code, for purposes of the application of civil pen-  
5           alties under chapter 463 of that title.

6   **SEC. 315. SECONDARY COCKPIT BARRIERS.**

7           Not later than 1 year after the date of enactment  
8           of this Act, the Administrator of the Federal Aviation Ad-  
9           ministration shall issue an order requiring the installation  
10          of a secondary cockpit barrier on each aircraft that is  
11          manufactured for delivery to a passenger air carrier in the  
12          United States operating under the provisions of part 121  
13          of title 14, Code of Federal Regulations.

14   **SEC. 316. AVIATION MAINTENANCE INDUSTRY TECHNICAL**  
15                                   **WORKFORCE.**

16          (a) STUDY.—The Comptroller General of the United  
17          States shall conduct a study on technical workers in the  
18          aviation maintenance industry.

19          (b) CONTENTS.—In conducting the study, the Comp-  
20          troller General shall—

21                 (1) analyze the current Standard Occupational  
22                 Classification system with regard to the aviation  
23                 profession, particularly technical workers in the avia-  
24                 tion maintenance industry;

1           (2) analyze how changes to the Federal employ-  
2           ment classification of aviation maintenance industry  
3           workers might affect government data on unemploy-  
4           ment rates and wages;

5           (3) analyze how changes to the Federal employ-  
6           ment classification of aviation maintenance industry  
7           workers might affect projections for future aviation  
8           maintenance industry workforce needs and project  
9           technical worker shortfalls;

10          (4) analyze the impact of Federal regulation,  
11          including Federal Aviation Administration oversight  
12          of certification, testing, and education programs, on  
13          employment of technical workers in the aviation  
14          maintenance industry;

15          (5) develop recommendations on how Federal  
16          Aviation Administration regulations and policies  
17          could be improved to address aviation maintenance  
18          industry needs for technical workers; and

19          (6) develop recommendations for better coordi-  
20          nating actions by government, educational institu-  
21          tions, and businesses to support workforce growth in  
22          the aviation maintenance industry.

23          (c) REPORT.—Not later than 1 year after the date  
24          of enactment of this Act, the Comptroller General shall  
25          submit to the Committee on Transportation and Infra-

1 structure of the House of Representatives and the Com-  
2 mittee on Commerce, Science, and Transportation of the  
3 Senate a report on the results of the study.

4 (d) DEFINITIONS.—In this section, the following defi-  
5 nitions apply:

6 (1) AVIATION MAINTENANCE INDUSTRY.—The  
7 term “aviation maintenance industry” means repair  
8 stations certificated under part 145 of title 14, Code  
9 of Federal Regulations.

10 (2) TECHNICAL WORKER.—The term “technical  
11 worker” means an individual authorized under part  
12 43 of title 14, Code of Federal Regulations, to main-  
13 tain, rebuild, alter, or perform preventive mainte-  
14 nance on an aircraft, airframe, aircraft engine, pro-  
15 peller, appliance, or component part or employed by  
16 an entity so authorized to perform such a function.

17 **SEC. 317. CRITICAL AIRFIELD MARKINGS.**

18 Not later than 180 days after the date of enactment  
19 of this Act, the Administrator of the Federal Aviation Ad-  
20 ministration shall issue a request for proposal for a study  
21 that includes—

22 (1) an independent, third party study to assess  
23 the durability of Type III and Type I glass beads  
24 applied to critical markings over a 2-year period at  
25 not fewer than 2 primary airports in varying weath-

1 er conditions to measure the retroreflectivity levels  
2 of such markings on a quarterly basis; and

3 (2) a study at 2 other airports carried out by  
4 applying Type III beads on half of the centerline  
5 and Type I beads to the other half and providing for  
6 assessments from pilots through surveys adminis-  
7 tered by a third party as to the visibility and per-  
8 formance of the Type III glass beads as compared  
9 to the Type I glass beads over a 1-year period.

10 **SEC. 318. REGULATORY REFORM.**

11 Section 106(p)(5) of title 49, United States Code, is  
12 amended by inserting “or aerospace” after “aviation”.

13 **Subtitle B—Unmanned Aircraft**  
14 **Systems**

15 **SEC. 331. DEFINITIONS.**

16 Except as otherwise provided, the definitions con-  
17 tained in section 45501 of title 49, United States Code  
18 (as added by this Act), shall apply to this subtitle.

19 **SEC. 332. CODIFICATION OF EXISTING LAW; ADDITIONAL**  
20 **PROVISIONS.**

21 (a) IN GENERAL.—Subtitle VII of title 49, United  
22 States Code, is amended by inserting after chapter 453  
23 the following:



1     **“CHAPTER 455—UNMANNED AIRCRAFT**  
2                                   **SYSTEMS**

“Sec.

“45501. Definitions.

“45502. Integration of civil unmanned aircraft systems into national airspace system.

“45503. Risk-based permitting of unmanned aircraft systems.

“45504. Public unmanned aircraft systems.

“45505. Special rules for certain unmanned aircraft systems.

“45506. Certification of new air navigation facilities for unmanned aircraft and other aircraft.

“45507. Special rules for certain UTM and low-altitude CNS.

“45508. Operation of small unmanned aircraft.

“45509. Special rules for model aircraft.

“45510. Carriage of property for compensation or hire.

“45511. Micro UAS operations.

3     **“§ 45501. Definitions**

4             “In this chapter, the following definitions apply:

5                     “(1) AERIAL DATA COLLECTION.—The term  
6             ‘aerial data collection’ means the gathering of data  
7             by a device aboard an unmanned aircraft during  
8             flight, including imagery, sensing, and measurement  
9             by such device.

10                    “(2) ARCTIC.—The term ‘Arctic’ means the  
11             United States zone of the Chukchi Sea, Beaufort  
12             Sea, and Bering Sea north of the Aleutian chain.

13                    “(3) CERTIFICATE OF WAIVER; CERTIFICATE  
14             OF AUTHORIZATION.—The terms ‘certificate of waiv-  
15             er’ and ‘certificate of authorization’ mean a Federal  
16             Aviation Administration grant of approval for a spe-  
17             cific flight operation.

1           “(4) CNS.—The term ‘CNS’ means a commu-  
2           nication, navigation, or surveillance system or serv-  
3           ice.

4           “(5) MODEL AIRCRAFT.—the term ‘model air-  
5           craft’ means an unmanned aircraft that is—

6                   “(A) capable of sustained flight in the at-  
7                   mosphere;

8                   “(B) flown within visual line of sight of the  
9                   person operating the aircraft; and

10                   “(C) flown for hobby or recreational pur-  
11                   poses.

12           “(6) PERMANENT AREAS.—The term ‘perma-  
13           nent areas’ means areas on land or water that pro-  
14           vide for launch, recovery, and operation of small un-  
15           manned aircraft.

16           “(7) PUBLIC UNMANNED AIRCRAFT SYSTEM.—  
17           The term ‘public unmanned aircraft system’ means  
18           an unmanned aircraft system that meets the quali-  
19           fications and conditions required for operation of a  
20           public aircraft (as defined in section 40102(a)).

21           “(8) SENSE-AND-AVOID CAPABILITY.—The term  
22           ‘sense-and-avoid capability’ means the capability of  
23           an unmanned aircraft to remain a safe distance  
24           from and to avoid collisions with other airborne air-  
25           craft.

1           “(9) SMALL UNMANNED AIRCRAFT.—The term  
2           ‘small unmanned aircraft’ means an unmanned air-  
3           craft weighing less than 55 pounds, including every-  
4           thing that is on board or otherwise attached to the  
5           aircraft.

6           “(10) UNMANNED AIRCRAFT.—The term ‘un-  
7           manned aircraft’ means an aircraft that is operated  
8           without the possibility of direct human intervention  
9           from within or on the aircraft.

10           “(11) UNMANNED AIRCRAFT SYSTEM.—The  
11           term ‘unmanned aircraft system’ means an un-  
12           manned aircraft and associated elements (including  
13           communication links and the components that con-  
14           trol the unmanned aircraft) that are required for the  
15           pilot in command to operate safely and efficiently in  
16           the national airspace system.

17           “(12) UTM.—The term ‘UTM’ means an un-  
18           manned aircraft traffic management system or serv-  
19           ice.

20   **“§ 45502. Integration of civil unmanned aircraft sys-**  
21           **tems into national airspace system**

22           “(a) REQUIRED PLANNING FOR INTEGRATION.—

23           “(1) COMPREHENSIVE PLAN.—Not later than  
24           November 10, 2012, the Secretary of Transpor-  
25           tation, in consultation with representatives of the

1 aviation industry, Federal agencies that employ un-  
2 manned aircraft systems technology in the national  
3 airspace system, and the unmanned aircraft systems  
4 industry, shall develop a comprehensive plan to safe-  
5 ly accelerate the integration of civil unmanned air-  
6 craft systems into the national airspace system.

7 “(2) CONTENTS OF PLAN.—The plan required  
8 under paragraph (1) shall contain, at a minimum,  
9 recommendations or projections on—

10 “(A) the rulemaking to be conducted under  
11 subsection (b), with specific recommendations  
12 on how the rulemaking will—

13 “(i) define the acceptable standards  
14 for operation and certification of civil un-  
15 manned aircraft systems;

16 “(ii) ensure that any civil unmanned  
17 aircraft system includes a sense-and-avoid  
18 capability; and

19 “(iii) establish standards and require-  
20 ments for the operator and pilot of a civil  
21 unmanned aircraft system, including  
22 standards and requirements for registra-  
23 tion and licensing;

24 “(B) the best methods to enhance the tech-  
25 nologies and subsystems necessary to achieve

1 the safe and routine operation of civil un-  
2 manned aircraft systems in the national air-  
3 space system;

4 “(C) a phased-in approach to the integra-  
5 tion of civil unmanned aircraft systems into the  
6 national airspace system;

7 “(D) a timeline for the phased-in approach  
8 described under subparagraph (C);

9 “(E) creation of a safe airspace designa-  
10 tion for cooperative manned and unmanned  
11 flight operations in the national airspace sys-  
12 tem;

13 “(F) establishment of a process to develop  
14 certification, flight standards, and air traffic re-  
15 quirements for civil unmanned aircraft systems  
16 at test ranges where such systems are subject  
17 to testing;

18 “(G) the best methods to ensure the safe  
19 operation of civil unmanned aircraft systems  
20 and public unmanned aircraft systems simulta-  
21 neously in the national airspace system; and

22 “(H) incorporation of the plan into the an-  
23 nual NextGen Implementation Plan document  
24 (or any successor document) of the Federal  
25 Aviation Administration.

1           “(3) DEADLINE.—The plan required under  
2 paragraph (1) shall provide for the safe integration  
3 of civil unmanned aircraft systems into the national  
4 airspace system as soon as practicable, but not later  
5 than September 30, 2015.

6           “(4) REPORT TO CONGRESS.—Not later than  
7 February 14, 2013, the Secretary shall submit to  
8 Congress a copy of the plan required under para-  
9 graph (1).

10           “(5) ROADMAP.—Not later than February 14,  
11 2013, the Secretary shall approve and make avail-  
12 able in print and on the Administration’s internet  
13 website a 5-year roadmap for the introduction of  
14 civil unmanned aircraft systems into the national  
15 airspace system, as coordinated by the Unmanned  
16 Aircraft Program Office of the Administration. The  
17 Secretary shall update, in coordination with the Ad-  
18 ministrator of the National Aeronautics and Space  
19 Administration (NASA) and relevant stakeholders,  
20 including those in industry and academia, the road-  
21 map annually. The roadmap shall include, at a min-  
22 imum—

23           “(A) cost estimates, planned schedules,  
24 and performance benchmarks, including specific  
25 tasks, milestones, and timelines, for unmanned

1 aircraft systems integration into the national  
2 airspace system, including an identification of—

3 “(i) the role of the unmanned aircraft  
4 systems test ranges established under sub-  
5 section (c) and the Unmanned Aircraft  
6 Systems Center of Excellence;

7 “(ii) performance objectives for un-  
8 manned aircraft systems that operate in  
9 the national airspace system; and

10 “(iii) research and development prior-  
11 ities for tools that could assist air traffic  
12 controllers as unmanned aircraft systems  
13 are integrated into the national airspace  
14 system, as appropriate;

15 “(B) a description of how the Administra-  
16 tion plans to use research and development, in-  
17 cluding research and development conducted  
18 through NASA’s Unmanned Aircraft Systems  
19 Traffic Management initiatives, to accommo-  
20 date, integrate, and provide for the evolution of  
21 unmanned aircraft systems in the national air-  
22 space system;

23 “(C) an assessment of critical performance  
24 abilities necessary to integrate unmanned air-  
25 craft systems into the national airspace system,

1 and how these performance abilities can be  
2 demonstrated; and

3 “(D) an update on the advancement of  
4 technologies needed to integrate unmanned air-  
5 craft systems into the national airspace system,  
6 including decisionmaking by adaptive systems,  
7 such as sense-and-avoid capabilities and cyber  
8 physical systems security.

9 “(b) RULEMAKING.—Not later than 18 months after  
10 the date on which the plan required under subsection  
11 (a)(1) is submitted to Congress under subsection (a)(4),  
12 the Secretary shall publish in the Federal Register—

13 “(1) a final rule on small unmanned aircraft  
14 systems that will allow for civil operation of such  
15 systems in the national airspace system, to the ex-  
16 tent the systems do not meet the requirements for  
17 expedited operational authorization under section  
18 45508;

19 “(2) a notice of proposed rulemaking to imple-  
20 ment the recommendations of the plan required  
21 under subsection (a)(1), with the final rule to be  
22 published not later than 16 months after the date of  
23 publication of the notice; and



1           “(3) an update to the Administration’s most re-  
2           cent policy statement on unmanned aircraft systems,  
3           contained in Docket No. FAA–2006–25714.

4           “(c) EXPANDING USE OF UNMANNED AIRCRAFT  
5           SYSTEMS IN ARCTIC.—

6           “(1) IN GENERAL.—Not later than August 12,  
7           2012, the Secretary shall develop a plan and initiate  
8           a process to work with relevant Federal agencies and  
9           national and international communities to designate  
10          permanent areas in the Arctic where small un-  
11          manned aircraft may operate 24 hours per day for  
12          research and commercial purposes. The plan for op-  
13          erations in these permanent areas shall include the  
14          development of processes to facilitate the safe oper-  
15          ation of unmanned aircraft beyond line of sight.  
16          Such areas shall enable over-water flights from the  
17          surface to at least 2,000 feet in altitude, with in-  
18          gress and egress routes from selected coastal launch  
19          sites.

20          “(2) AGREEMENTS.—To implement the plan  
21          under paragraph (1), the Secretary may enter into  
22          an agreement with relevant national and inter-  
23          national communities.

24          “(3) AIRCRAFT APPROVAL.—Not later than 1  
25          year after the entry into force of an agreement nec-

1        essary to effectuate the purposes of this subsection,  
2        the Secretary shall work with relevant national and  
3        international communities to establish and imple-  
4        ment a process, or may apply an applicable process  
5        already established, for approving the use of un-  
6        manned aircraft in the designated permanent areas  
7        in the Arctic without regard to whether an un-  
8        manned aircraft is used as a public aircraft, a civil  
9        aircraft, or a model aircraft.

10    **“§ 45503. Risk-based permitting of unmanned aircraft**  
11                                    **systems**

12        “(a) IN GENERAL.—Not later than 120 days after  
13        the date of enactment of this section, the Administrator  
14        of the Federal Aviation Administration shall establish pro-  
15        cedures for issuing permits under this section with respect  
16        to certain unmanned aircraft systems and operations  
17        thereof.

18        “(b) PERMITTING STANDARDS.—Upon the submis-  
19        sion of an application in accordance with subsection (d),  
20        the Administrator shall issue a permit with respect to the  
21        proposed operation of an unmanned aircraft system if the  
22        Administrator determines that the unmanned aircraft sys-  
23        tem and the proposed operation achieve a level of safety  
24        that is equivalent to—

1           “(1) other unmanned aircraft systems and op-  
2           erations permitted under regulation, exemption, or  
3           other authority granted by the Administrator; or

4           “(2) any other aircraft operation approved by  
5           the Administrator with similar risk characteristics or  
6           profiles.

7           “(c) SAFETY CRITERIA FOR CONSIDERATION.—In  
8           determining whether a proposed operation meets the  
9           standards described in subsection (b), the Administrator  
10          shall consider the following safety criteria:

11           “(1) The kinetic energy of the unmanned air-  
12          craft system.

13           “(2) The location of the proposed operation, in-  
14          cluding the proximity to—

15                   “(A) structures;

16                   “(B) congested areas;

17                   “(C) special-use airspace; and

18                   “(D) persons on the ground.

19           “(3) The nature of the operation, including any  
20          proposed risk mitigation.

21           “(4) Any known hazard of the proposed oper-  
22          ation and the severity and likelihood of such hazard.

23           “(5) Any known failure modes of the unmanned  
24          aircraft system, failure mode effects and criticality,  
25          and any mitigating features or capabilities.

1           “(6) The operational history of relevant tech-  
2 nologies, if available.

3           “(7) Any history of civil penalties or certificate  
4 actions by the Administrator against the applicant  
5 seeking the permit.

6           “(8) Any other safety criteria the Administrator  
7 considers appropriate.

8           “(d) APPLICATION.—An application under this sec-  
9 tion shall include evidence that the unmanned aircraft sys-  
10 tem and the proposed operation thereof meet the stand-  
11 ards described in subsection (b) based on the criteria de-  
12 scribed in subsection (c).

13          “(e) SCOPE OF PERMIT.—A permit issued under this  
14 section shall—

15           “(1) be valid for 5 years;

16           “(2) constitute approval of both the airworthi-  
17 ness of the unmanned aircraft system and the pro-  
18 posed operation of such system;

19           “(3) be renewable for additional 5-year periods;  
20 and

21           “(4) contain any terms necessary to ensure  
22 aviation safety.

23          “(f) NOTICE.—Not later than 120 days after the Ad-  
24 ministrator receives a complete application under sub-  
25 section (d), the Administrator shall provide the applicant

1 written notice of a decision to approve or disapprove of  
2 the application or to request a modification of the applica-  
3 tion that is necessary for approval of the application.

4 “(g) PERMITTING PROCESS.—The Administrator  
5 shall issue a permit under this section without regard to  
6 subsections (b) through (d) of section 553 of title 5 and  
7 chapter 35 of title 44 if the Administrator determines that  
8 the operation permitted will not occur near a congested  
9 area.

10 “(h) EXEMPTION FROM CERTAIN REQUIREMENTS.—  
11 To the extent consistent with aviation safety, the Adminis-  
12 trator may exempt applicants under this section from  
13 paragraphs (1) through (3) of section 44711(a).

14 “(i) WITHDRAWAL.—The Administrator may, at any  
15 time, modify or withdraw a permit issued under this sec-  
16 tion.

17 “(j) APPLICABILITY.—This section shall not apply to  
18 small unmanned aircraft systems and operations author-  
19 ized by the final rule on small unmanned aircraft systems  
20 issued pursuant to section 45502(b)(1).

21 “(k) EXPEDITED REVIEW.—The Administrator shall  
22 review and act upon applications under this section on an  
23 expedited basis for unmanned aircraft systems and oper-  
24 ations thereof to be used primarily in, or primarily in di-  
25 rect support of, emergency preparedness, emergency re-

1 sponse, or disaster recovery efforts, including efforts in  
2 connection with natural disasters and severe weather  
3 events.

4 **“§ 45504. Public unmanned aircraft systems**

5 “(a) GUIDANCE.—Not later than November 10,  
6 2012, the Secretary of Transportation shall issue guidance  
7 regarding the operation of public unmanned aircraft sys-  
8 tems to—

9 “(1) expedite the issuance of a certificate of au-  
10 thorization process;

11 “(2) provide for a collaborative process with  
12 public agencies to allow for an incremental expan-  
13 sion of access to the national airspace system as  
14 technology matures and the necessary safety anal-  
15 ysis and data become available, and until standards  
16 are completed and technology issues are resolved;

17 “(3) facilitate the capability of public agencies  
18 to develop and use test ranges, subject to operating  
19 restrictions required by the Federal Aviation Admin-  
20 istration, to test and operate unmanned aircraft sys-  
21 tems; and

22 “(4) provide guidance on a public entity’s re-  
23 sponsibility when operating an unmanned aircraft  
24 without a civil airworthiness certificate issued by the  
25 Administration.

1       “(b) STANDARDS FOR OPERATION AND CERTIFI-  
2       CATION.—Not later than December 31, 2015, the Admin-  
3       istrator shall develop and implement operational and cer-  
4       tification requirements for the operation of public un-  
5       manned aircraft systems in the national airspace system.

6       “(c) AGREEMENTS WITH GOVERNMENT AGEN-  
7       CIES.—

8               “(1) IN GENERAL.—Not later than May 14,  
9       2012, the Secretary shall enter into agreements with  
10      appropriate government agencies to simplify the  
11      process for issuing certificates of waiver or author-  
12      ization with respect to applications seeking author-  
13      ization to operate public unmanned aircraft systems  
14      in the national airspace system.

15             “(2) CONTENTS.—The agreements shall—

16               “(A) with respect to an application de-  
17      scribed in paragraph (1)—

18                     “(i) provide for an expedited review of  
19      the application;

20                     “(ii) require a decision by the Admin-  
21      istrator on approval or disapproval within  
22      60 business days of the date of submission  
23      of the application; and

24                     “(iii) allow for an expedited appeal if  
25      the application is disapproved;

1           “(B) allow for a one-time approval of simi-  
2           lar operations carried out during a fixed period  
3           of time; and

4           “(C) allow a government public safety  
5           agency to operate unmanned aircraft weighing  
6           4.4 pounds or less, if operated—

7                   “(i) within the line of sight of the op-  
8                   erator;

9                   “(ii) less than 400 feet above the  
10                  ground;

11                  “(iii) during daylight conditions;

12                  “(iv) within Class G airspace; and

13                  “(v) outside of 5 statute miles from  
14                  any airport, heliport, seaplane base, space-  
15                  port, or other location with aviation activi-  
16                  ties.

17   **“§ 45505. Special rules for certain unmanned aircraft**  
18                   **systems**

19           “(a) IN GENERAL.—Notwithstanding any other re-  
20           quirement of this subtitle, and not later than August 12,  
21           2012, the Secretary of Transportation shall determine if  
22           certain unmanned aircraft systems may operate safely in  
23           the national airspace system before completion of the plan  
24           and rulemaking required by section 45502 or the guidance  
25           required under section 45504.



1       “(b) ASSESSMENT OF UNMANNED AIRCRAFT SYS-  
2 TEMS.—In making the determination under subsection  
3 (a), the Secretary shall determine, at a minimum—

4               “(1) which types of unmanned aircraft systems,  
5 if any, as a result of their size, weight, speed, oper-  
6 ational capability, proximity to airports and popu-  
7 lated areas, and operation within visual line of sight  
8 do not create a hazard to users of the national air-  
9 space system or the public or pose a threat to na-  
10 tional security; and

11              “(2) whether a certificate of waiver, certificate  
12 of authorization, or airworthiness certification under  
13 section 44704 is required for the operation of un-  
14 manned aircraft systems identified under paragraph  
15 (1).

16       “(c) REQUIREMENTS FOR SAFE OPERATION.—If the  
17 Secretary determines under this section that certain un-  
18 manned aircraft systems may operate safely in the na-  
19 tional airspace system, the Secretary shall establish re-  
20 quirements for the safe operation of such aircraft systems  
21 in the national airspace system.

22       **“§ 45506. Certification of new air navigation facilities**  
23                       **for unmanned aircraft and other aircraft**

24       “(a) IN GENERAL.—Not later than 18 months after  
25 the date of enactment of this section, and notwithstanding

1 section 2208 of the FAA Extension, Safety, and Security  
2 Act of 2016 (49 U.S.C. 40101 note), the Administrator  
3 of the Federal Aviation Administration shall initiate a  
4 rulemaking to establish procedures for issuing air naviga-  
5 tion facility certificates pursuant to section 44702 to oper-  
6 ators of—

7           “(1) UTM for unmanned aircraft operations  
8           that occur primarily or exclusively in airspace 400  
9           feet above ground level and below; and

10           “(2) low-altitude CNS for aircraft operations  
11           that occur primarily or exclusively in airspace 400  
12           feet above ground level and below.

13           “(b) MINIMUM REQUIREMENTS.—In issuing a final  
14 rule pursuant to subsection (a), the Administrator, at a  
15 minimum, shall provide for the following:

16           “(1) CERTIFICATION STANDARDS.—The Admin-  
17           istrator shall issue an air navigation facility certifi-  
18           cate under the final rule if the Administrator deter-  
19           mines that a UTM or low-altitude CNS facilitates or  
20           improves the safety of unmanned aircraft or other  
21           aircraft operations that occur primarily or exclu-  
22           sively in airspace 400 feet above ground level and  
23           below, including operations conducted under a waiv-  
24           er issued pursuant to subpart D of part 107 of title  
25           14, Code of Federal Regulations.

1           “(2) CRITERIA FOR CONSIDERATION.—In deter-  
2           mining whether a UTM or low-altitude CNS meets  
3           the standard described in paragraph (1), the Admin-  
4           istrator shall, as appropriate, consider—

5                   “(A) protection of persons and property on  
6           the ground;

7                   “(B) remote identification of aircraft;

8                   “(C) collision avoidance with respect to ob-  
9           stacles and aircraft;

10                  “(D) deconfliction of aircraft trajectories;

11                  “(E) safe and reliable interoperability or  
12           noninterference with air traffic control and  
13           other systems operated in the national airspace  
14           system;

15                  “(F) detection of noncooperative aircraft;

16                  “(G) geographic and local factors;

17                  “(H) aircraft equipage; and

18                  “(I) qualifications, if any, necessary to op-  
19           erate the UTM or low-altitude CNS.

20           “(3) APPLICATION.—An application for an air  
21           navigation facility certificate under the final rule  
22           shall include evidence that the UTM or low-altitude  
23           CNS meets the standard described in paragraph (1)  
24           based on the criteria described in paragraph (2).

1           “(4) SCOPE OF CERTIFICATE.—The Adminis-  
2           trator shall ensure that an air navigation facility  
3           certificate issued under the final rule—

4                   “(A) constitutes approval of the UTM or  
5                   low-altitude CNS for the duration of the term  
6                   of the certificate;

7                   “(B) constitutes authorization to operate  
8                   the UTM or low-altitude CNS for the duration  
9                   of the term of the certificate; and

10                   “(C) contains such limitations and condi-  
11                   tions as may be necessary to ensure aviation  
12                   safety.

13           “(5) NOTICE.—Not later than 120 days after  
14           the Administrator receives a complete application  
15           under the final rule, the Administrator shall provide  
16           the applicant with a written approval, disapproval,  
17           or request to modify the application.

18           “(6) LOW RISK AREAS.—Under the final rule,  
19           the Administrator shall establish expedited proce-  
20           dures for approval of UTM or low-altitude CNS op-  
21           erated in—

22                   “(A) airspace away from congested areas;

23                   or



1       “(b) ASSESSMENT OF UTM AND LOW-ALTITUDE  
2 CNS.—In making the determination under subsection (a),  
3 the Secretary shall determine, at a minimum, which types  
4 of UTM and low-altitude CNS, if any, as a result of their  
5 operational capabilities, reliability, intended use, and areas  
6 of operation, and the characteristics of the aircraft in-  
7 volved, do not create a hazard to users of the national  
8 airspace system or the public.

9       “(c) REQUIREMENTS FOR SAFE OPERATION.—If the  
10 Secretary determines that certain UTM and low-altitude  
11 CNS may operate safely in the national airspace system,  
12 the Secretary shall establish requirements for their safe  
13 operation in the national airspace system.

14       “(d) EXPEDITED PROCEDURES.—The Secretary shall  
15 provide expedited procedures for reviewing and approving  
16 UTM or low-altitude CNS operated to monitor or control  
17 aircraft operated primarily or exclusively in airspace  
18 above—

19               “(1) croplands;

20               “(2) areas other than congested areas; and

21               “(3) other areas in which the operation of un-  
22 manned aircraft poses very low risk.

23       “(e) CONSULTATION.—In carrying out this section,  
24 the Administrator shall consult with other Federal agen-  
25 cies, as appropriate.

1 **“§ 45508. Operation of small unmanned aircraft**

2       “(a) EXEMPTION AND CERTIFICATE OF WAIVER OR  
3 AUTHORIZATION FOR CERTAIN OPERATIONS.—Not later  
4 than 270 days after the date of enactment of this section,  
5 the Administrator of the Federal Aviation Administration  
6 shall establish a procedure for granting an exemption and  
7 issuing a certificate of waiver or authorization for the op-  
8 eration of a small unmanned aircraft system in United  
9 States airspace for the purposes described in section  
10 45501(1).

11       “(b) OPERATION OF EXEMPTION AND CERTIFICATE  
12 OF WAIVER OR AUTHORIZATION.—

13               “(1) EXEMPTION.—An exemption granted  
14 under this section shall—

15                       “(A) exempt the operator of a small un-  
16 manned aircraft from the provisions of title 14,  
17 Code of Federal Regulations, that are exempted  
18 in Exemption No. 11687, issued on May 26,  
19 2015, Regulatory Docket Number FAA–2015–  
20 0117, or in a subsequent exemption; and

21                       “(B) contain conditions and limitations de-  
22 scribed in paragraphs 3 through 31 of such Ex-  
23 emption No. 11687, or conditions and limita-  
24 tions of a subsequent exemption.

25               “(2) CERTIFICATE OF WAIVER OR AUTHORIZA-  
26 TION.—A certificate of waiver or authorization

1 issued under this section shall allow the operation of  
2 small unmanned aircraft according to—

3 “(A) the standard provisions and air traf-  
4 fic control special provisions of the certificate of  
5 waiver or authorization FAA Form 7711–1 (7–  
6 74); or

7 “(B) the standard and special provisions of  
8 a subsequent certificate of waiver or authoriza-  
9 tion.

10 “(c) NOTICE TO ADMINISTRATOR.—Before operating  
11 a small unmanned aircraft pursuant to a certificate of  
12 waiver or authorization granted under this section, the op-  
13 erator shall provide written notice to the Administrator,  
14 in a form and manner specified by the Administrator, that  
15 contains such information and assurances as the Adminis-  
16 trator determines necessary in the interest of aviation  
17 safety and the efficiency of the national airspace system,  
18 including a certification that the operator has read, under-  
19 stands, and will comply with all terms, conditions, and lim-  
20 itations of the certificate of waiver or authorization.

21 “(d) WAIVER OF AIRWORTHINESS CERTIFICATE.—  
22 Notwithstanding section 44711(a)(1), the holder of a cer-  
23 tificate of waiver or authorization granted under this sec-  
24 tion may operate a small unmanned aircraft under the



1 terms, conditions, and limitations of such certificate with-  
2 out an airworthiness certificate.

3 “(e) PROCEDURE.—The granting of an exemption or  
4 the issuance of a certificate of waiver or authorization, or  
5 any other action authorized by this section, shall be made  
6 without regard to—

7 “(1) section 553 of title 5; or

8 “(2) chapter 35 of title 44.

9 “(f) STATUTORY CONSTRUCTION.—Nothing in this  
10 section may be construed to—

11 “(1) affect the issuance of a rule by or any  
12 other activity of the Secretary of Transportation or  
13 the Administrator under any other provision of law;  
14 or

15 “(2) invalidate an exemption or certificate of  
16 waiver or authorization issued by the Administrator  
17 before the date of enactment of this section.

18 “(g) EFFECTIVE PERIODS.—An exemption or certifi-  
19 cate of waiver or authorization issued under this section,  
20 or an amendment of such exemption or certificate, shall  
21 cease to be valid on the effective date of a final rule on  
22 small unmanned aircraft systems issued under section  
23 45502(b)(1).

1 **“§ 45509. Special rules for model aircraft**

2       “(a) IN GENERAL.—Notwithstanding any other pro-  
3 vision of law relating to the incorporation of unmanned  
4 aircraft systems into Federal Aviation Administration  
5 plans and policies, including this subtitle, the Adminis-  
6 trator of the Federal Aviation Administration may not  
7 promulgate any rule or regulation regarding a model air-  
8 craft or an aircraft being developed as a model aircraft  
9 (other than the registration of certain model aircraft pur-  
10 suant to section 44103), if—

11               “(1) the aircraft is flown strictly for hobby or  
12 recreational use;

13               “(2) the aircraft is operated in accordance with  
14 a community-based set of safety guidelines and with-  
15 in the programming of a community-based organiza-  
16 tion;

17               “(3) the aircraft is limited to not more than 55  
18 pounds unless otherwise certified through a design,  
19 construction, inspection, flight test, and operational  
20 safety program administered by a community-based  
21 organization;

22               “(4) the aircraft is operated in a manner that  
23 does not interfere with and gives way to any manned  
24 aircraft;

25               “(5) the aircraft is not operated over or within  
26 the property of a fixed site facility that operates

1 amusement rides available for use by the general  
2 public or the property extending 500 lateral feet be-  
3 yond the perimeter of such facility unless the oper-  
4 ation is authorized by the owner of the amusement  
5 facility; and

6 “(6) when flown within 5 miles of an airport,  
7 the operator of the aircraft provides the airport op-  
8 erator and the airport air traffic control tower (when  
9 an air traffic facility is located at the airport) with  
10 prior notice of the operation (model aircraft opera-  
11 tors flying from a permanent location within 5 miles  
12 of an airport should establish a mutually agreed  
13 upon operating procedure with the airport operator  
14 and the airport air traffic control tower (when an air  
15 traffic facility is located at the airport)).

16 “(b) COMMERCIAL OPERATION FOR INSTRUCTIONAL  
17 OR EDUCATIONAL PURPOSES.—A flight of an unmanned  
18 aircraft shall be treated as a flight of a model aircraft  
19 for purposes of subsection (a) (regardless of any com-  
20 pensation, reimbursement, or other consideration ex-  
21 changed or incidental economic benefit gained in the  
22 course of planning, operating, or supervising the flight),  
23 if the flight is—

24 “(1) conducted for instructional or educational  
25 purposes; and

1           “(2) operated or supervised by a member of a  
2           community-based organization recognized pursuant  
3           to subsection (e).

4           “(c) STATUTORY CONSTRUCTION.—Nothing in this  
5           section may be construed to limit the authority of the Ad-  
6           ministratoꝛ to pursue enforcement action against persons  
7           operating model aircraft who endanger the safety of the  
8           national airspace system.

9           “(d) COMMUNITY-BASED ORGANIZATION DE-  
10          FINED.—In this section, the term ‘community-based orga-  
11          nization’ means an entity that—

12                   “(1) is described in section 501(c)(3) of the In-  
13                   ternal Revenue Code of 1986;

14                   “(2) is exempt from tax under section 501(a) of  
15                   the Internal Revenue Code of 1986;

16                   “(3) the mission of which is demonstrably the  
17                   furtherance of model aviation;

18                   “(4) provides a comprehensive set of safety  
19                   guidelines for all aspects of model aviation address-  
20                   ing the assembly and operation of model aircraft and  
21                   that emphasize safe aeromodeling operations within  
22                   the national airspace system and the protection and  
23                   safety of individuals and property on the ground;

24                   “(5) provides programming and support for any  
25                   local charter organizations, affiliates, or clubs; and

1           “(6) provides assistance and support in the de-  
2           velopment and operation of locally designated model  
3           aircraft flying sites.

4           “(e) RECOGNITION OF COMMUNITY-BASED ORGANI-  
5           ZATIONS.—Not later than 180 days after the date of en-  
6           actment of this section, the Administrator shall establish,  
7           and make available to the public, a process for recognizing  
8           community-based organizations that meet the eligibility  
9           criteria under subsection (d).

10       **“§ 45510. Carriage of property for compensation or**  
11                               **hire**

12           “(a) IN GENERAL.—Not later than 1 year after the  
13           date of enactment of this section, the Secretary of Trans-  
14           portation shall issue a final rule authorizing the carriage  
15           of property by operators of small unmanned aircraft sys-  
16           tems for compensation or hire within the United States.

17           “(b) CONTENTS.—The final rule required under sub-  
18           section (a) shall provide for the following:

19           “(1) SMALL UAS AIR CARRIER CERTIFICATE.—  
20           The Administrator of the Federal Aviation Adminis-  
21           tration, at the direction of the Secretary, shall estab-  
22           lish a small UAS air carrier certificate for persons  
23           that undertake directly, or by lease or other arrange-  
24           ment, the operation of small unmanned aircraft sys-  
25           tems to carry property in air transportation, includ-

1 ing commercial fleet operations with highly auto-  
2 mated unmanned aircraft systems. The requirements  
3 to obtain a small UAS air carrier certificate shall—

4 “(A) account for the unique characteristics  
5 of highly automated small unmanned aircraft  
6 systems; and

7 “(B) include only those obligations nec-  
8 essary for the safe operation of small unmanned  
9 aircraft systems.

10 “(2) SMALL UAS AIR CARRIER CERTIFICATION  
11 PROCESS.—The Administrator, at the direction of  
12 the Secretary, shall establish a process for the  
13 issuance of a small UAS air carrier certificate de-  
14 scribed in paragraph (1) that is streamlined, simple,  
15 performance-based, and risk-based. Such certifi-  
16 cation process shall consider—

17 “(A) safety and the mitigation of oper-  
18 ational risks from highly automated small un-  
19 manned aircraft systems to the safety of other  
20 aircraft, and persons and property on the  
21 ground;

22 “(B) the safety and reliability of highly  
23 automated small unmanned aircraft system de-  
24 sign, including technological capabilities and

1 operational limitations to mitigate such risks;  
2 and

3 “(C) the competencies and compliance pro-  
4 grams of manufacturers, operators, and compa-  
5 nies that both manufacture and operate small  
6 unmanned aircraft systems and components.

7 “(3) SMALL UAS AIR CARRIER CLASSIFICA-  
8 TION.—The Secretary shall develop a classification  
9 system for small unmanned aircraft systems air car-  
10 riers to establish economic authority for the carriage  
11 of property by small unmanned aircraft systems for  
12 compensation or hire. Such classification shall only  
13 require—

14 “(A) registration with the Department of  
15 Transportation; and

16 “(B) a valid small UAS air carrier certifi-  
17 cate as described in paragraph (1).

18 **“§ 45511. Micro UAS operations**

19 “(a) IN GENERAL.—Not later than 60 days after the  
20 date of enactment of this section, the Administrator of the  
21 Federal Aviation Administration shall charter an aviation  
22 rulemaking advisory committee to develop recommenda-  
23 tions for regulations under which any person may operate  
24 a micro unmanned aircraft system, the aircraft component  
25 of which weighs 4.4 pounds or less, including payload,

1 without the person operating the system being required  
2 to pass any airman certification requirement, including  
3 any requirements under section 44703, part 61 of title 14,  
4 Code of Federal Regulations, or any other rule or regula-  
5 tion relating to airman certification.

6       “(b) CONSIDERATIONS.—In developing recommenda-  
7 tions for the operation of micro unmanned aircraft sys-  
8 tems under subsection (a), the members of the aviation  
9 rulemaking advisory committee shall consider rules for op-  
10 eration of such systems—

11           “(1) at an altitude of less than 400 feet above  
12 ground level;

13           “(2) with an airspeed of not greater than 40  
14 knots;

15           “(3) within the visual line of sight of the oper-  
16 ator;

17           “(4) during the hours between sunrise and sun-  
18 set;

19           “(5) by an operator who has passed an aero-  
20 nautical knowledge and safety test administered by  
21 the Federal Aviation Administration online specifi-  
22 cally for the operation of micro unmanned aircraft  
23 systems, with such test being of a length and dif-  
24 ficulty that acknowledges the reduced operational



1 complexity and low risk of micro unmanned aircraft  
2 systems;

3 “(6) not over unprotected persons uninvolved in  
4 its operation; and

5 “(7) at least 5 statute miles from the geo-  
6 graphic center of a tower-controlled airport or air-  
7 port denoted on a current Federal Aviation Adminis-  
8 tration-published aeronautical chart, except that a  
9 micro unmanned aircraft system may be operated  
10 closer than 5 statute miles to the airport if the oper-  
11 ator—

12 “(A) provides prior notice to the airport  
13 operator; and

14 “(B) receives, for a tower-controlled air-  
15 port, prior approval from the air traffic control  
16 facility located at the airport.

17 “(c) CONSULTATION.—

18 “(1) IN GENERAL.—In developing recommenda-  
19 tions for recommended regulations under subsection  
20 (a), the aviation rulemaking advisory committee  
21 shall consult with—

22 “(A) unmanned aircraft systems stake-  
23 holders, including manufacturers of micro un-  
24 manned aircraft systems;

1           “(B) community-based aviation organiza-  
2           tions;

3           “(C) the Center of Excellence for Un-  
4           manned Aircraft Systems; and

5           “(D) appropriate Federal agencies.

6           “(2) FACA.—The Federal Advisory Committee  
7           Act (5 U.S.C. App.) shall not apply to an aviation  
8           rulemaking advisory committee chartered under this  
9           section.

10          “(d) RULEMAKING.—Not later than 180 days after  
11          the date of receipt of the recommendations under sub-  
12          section (a), the Administrator shall issue regulations in-  
13          corporating recommendations of the aviation rulemaking  
14          advisory committee that provide for the operation of micro  
15          unmanned aircraft systems in the United States—

16                 “(1) without an airman certificate; and

17                 “(2) without an airworthiness certificate for the  
18                 associated unmanned aircraft.

19          “(e) SCOPE OF REGULATIONS.—

20                 “(1) IN GENERAL.—In determining whether a  
21                 person may operate an unmanned aircraft system  
22                 under 1 or more of the circumstances described  
23                 under paragraphs (1) through (3) of subsection (b),  
24                 the Administrator shall use a risk-based approach  
25                 and consider, at a minimum, the physical and func-

1 tional characteristics of the unmanned aircraft sys-  
2 tem.

3 “(2) LIMITATION.—The Administrator may  
4 only issue regulations under this section for un-  
5 manned aircraft systems that the Administrator de-  
6 termines may be operated safely in the national air-  
7 space system pursuant to those regulations.

8 “(f) RULES OF CONSTRUCTION.—Nothing in this  
9 section may be construed—

10 “(1) to prohibit a person from operating an un-  
11 manned aircraft system under a circumstance de-  
12 scribed under paragraphs (1) through (3) of sub-  
13 section (b) if—

14 “(A) the circumstance is allowed by regula-  
15 tions issued under this section; and

16 “(B) the person operates the unmanned  
17 aircraft system in a manner prescribed by the  
18 regulations; or

19 “(2) to limit or affect in any way the Adminis-  
20 trator’s authority to conduct a rulemaking, make a  
21 determination, or carry out any activity related to  
22 unmanned aircraft or unmanned aircraft systems  
23 under any other provision of law.”.

24 (b) CONFORMING AMENDMENTS.—

25 (1) REPEALS.—

1           (A) IN GENERAL.—Sections 332(a),  
2           332(b), 332(d), 333, 334, and 336 of the FAA  
3           Modernization and Reform Act of 2012 (49  
4           U.S.C. 40101 note) are repealed.

5           (B) CLERICAL AMENDMENT.—The items  
6           relating to sections 333, 334, and 336 of the  
7           FAA Modernization and Reform Act of 2012  
8           (49 U.S.C. 40101 note) in the table of contents  
9           contained in section 1(b) of that Act are re-  
10          pealed.

11          (2) PENALTIES.—Section 46301 of title 49,  
12          United States Code, is amended—

13                 (A) in subsection (a)—

14                         (i) in paragraph (1)(A) by inserting  
15                         “chapter 455,” after “chapter 451,”; and

16                         (ii) in paragraph (5)(A)(i) by striking  
17                         “or chapter 451,” and inserting “chapter  
18                         451, chapter 455,”;

19                 (B) in subsection (d)(2) by inserting  
20                 “chapter 455,” after “chapter 451,”; and

21                 (C) in subsection (f)(1)(A)(i) by striking  
22                 “or chapter 451” and inserting “chapter 451,  
23                 or chapter 455”.

24          (3) CLERICAL AMENDMENT.—The analysis for  
25          subtitle VII of title 49, United States Code, is

1 amended by inserting after the item relating to  
2 chapter 453 the following:

“**455. Unmanned aircraft systems** .....**45501**”.

3 **SEC. 333. UNMANNED AIRCRAFT TEST RANGES.**

4 (a) EXTENSION OF PROGRAM.—Section 332(c)(1) of  
5 the FAA Modernization and Reform Act of 2012 (49  
6 U.S.C. 40101 note) is amended by striking “September  
7 30, 2019” and inserting “the date that is 6 years after  
8 the date of enactment of the FAA Reauthorization Act  
9 of 2018”.

10 (b) SENSE-AND-AVOID AND BEYOND LINE OF SIGHT  
11 SYSTEMS AT TEST RANGES.—

12 (1) IN GENERAL.—To the extent consistent  
13 with aviation safety, the Administrator of the Fed-  
14 eral Aviation Administration shall permit and en-  
15 courage flights of unmanned aircraft equipped with  
16 sense-and-avoid and beyond line of sight systems at  
17 the 6 test ranges designated under section 332(c) of  
18 the FAA Modernization and Reform Act of 2012.

19 (2) WAIVERS.—In carrying out paragraph (1),  
20 the Administrator may waive the requirements of  
21 section 44711 of title 49, United States Code, in-  
22 cluding related regulations, to the extent consistent  
23 with aviation safety.

24 (c) TEST RANGE DEFINED.—

1           (1) IN GENERAL.—In this section, the term  
2 “test range” means a defined geographic area where  
3 research and development are conducted as author-  
4 ized by the Administrator of the Federal Aviation  
5 Administration.

6           (2) INCLUSIONS.—Such term includes any of  
7 the 6 test ranges established by the Administrator of  
8 the Federal Aviation Administration under section  
9 332(c) of the FAA Modernization and Reform Act  
10 of 2012, as in effect on the day before the date of  
11 enactment of this subsection, and any public entity  
12 authorized by the Federal Aviation Administration  
13 as an unmanned aircraft system flight test center  
14 before January 1, 2009.

15 **SEC. 334. SENSE OF CONGRESS REGARDING UNMANNED**  
16 **AIRCRAFT SAFETY.**

17 It is the sense of Congress that—

18           (1) the unauthorized operation of unmanned  
19 aircraft near airports presents a serious hazard to  
20 aviation safety;

21           (2) a collision between an unmanned aircraft  
22 and a conventional aircraft in flight could jeopardize  
23 the safety of persons aboard the aircraft and on the  
24 ground;

1           (3) Federal aviation regulations, including sec-  
2           tions 91.126 through 91.131 of title 14, Code of  
3           Federal Regulations, prohibit unauthorized operation  
4           of an aircraft in controlled airspace near an airport;

5           (4) Federal aviation regulations, including sec-  
6           tion 91.13 of title 14, Code of Federal Regulations,  
7           prohibit the operation of an aircraft in a careless or  
8           reckless manner so as to endanger the life or prop-  
9           erty of another;

10          (5) the Administrator of the Federal Aviation  
11          Administration should pursue all available civil and  
12          administrative remedies available to the Adminis-  
13          trator, including referrals to other government agen-  
14          cies for criminal investigations, with respect to per-  
15          sons who operate unmanned aircraft in an unauthor-  
16          ized manner;

17          (6) the Administrator should place particular  
18          priority on continuing measures, including partner-  
19          ships with nongovernmental organizations, to edu-  
20          cate the public about the dangers to the public safe-  
21          ty of operating unmanned aircraft near airports  
22          without the appropriate approvals or authorizations;  
23          and

24          (7) manufacturers and retail sellers of small  
25          unmanned aircraft systems should take steps to edu-

1       cate consumers about the safe and lawful operation  
2       of such systems.

3       **SEC. 335. UAS PRIVACY REVIEW.**

4       (a) REVIEW.—The Secretary of Transportation, in  
5       consultation with the heads of appropriate Federal agen-  
6       cies, appropriate State and local officials, and subject-mat-  
7       ter experts and in consideration of relevant efforts led by  
8       the National Telecommunications and Information Ad-  
9       ministration, shall carry out a review to identify any po-  
10      tential reduction of privacy specifically caused by the inte-  
11      gration of unmanned aircraft systems into the national  
12      airspace system.

13      (b) CONSULTATION.—In carrying out the review, the  
14      Secretary shall consult with the National Telecommuni-  
15      cations and Information Administration of the Depart-  
16      ment of Commerce on its ongoing efforts responsive to the  
17      Presidential memorandum titled “Promoting Economic  
18      Competitiveness While Safeguarding Privacy, Civil Rights,  
19      and Civil Liberties in Domestic Use of Unmanned Aircraft  
20      Systems” and dated February 15, 2015.

21      (c) REPORT.—Not later than 180 days after the date  
22      of enactment of this Act, the Secretary shall submit to  
23      the Committee on Transportation and Infrastructure of  
24      the House of Representatives and the Committee on Com-



1 merce, Science, and Transportation of the Senate a report  
2 on the results of the review required under subsection (a).

3 **SEC. 336. PUBLIC UAS OPERATIONS BY TRIBAL GOVERN-**  
4 **MENTS.**

5 (a) PUBLIC UAS OPERATIONS BY TRIBAL GOVERN-  
6 MENTS.—Section 40102(a)(41) of title 49, United States  
7 Code, is amended by adding at the end the following:

8 “(F) An unmanned aircraft that is owned  
9 and operated by, or exclusively leased for at  
10 least 90 continuous days by, an Indian Tribal  
11 government, as defined in section 102 of the  
12 Robert T. Stafford Disaster Relief and Emer-  
13 gency Assistance Act (42 U.S.C. 5122), except  
14 as provided in section 40125(b).”.

15 (b) CONFORMING AMENDMENT.—Section 40125(b)  
16 of title 49, United States Code, is amended by striking  
17 “or (D)” and inserting “(D), or (F)”.

18 **SEC. 337. EVALUATION OF AIRCRAFT REGISTRATION FOR**  
19 **SMALL UNMANNED AIRCRAFT.**

20 (a) METRICS.—Beginning not later than 180 days  
21 after the date of enactment of this Act, the Administrator  
22 of the Federal Aviation Administration shall develop and  
23 track metrics to assess compliance with and effectiveness  
24 of the registration of small unmanned aircraft systems by  
25 the Federal Aviation Administration pursuant to the in-

1 interim final rule issued on December 16, 2015, entitled  
2 “Registration and Marking Requirements for Small Un-  
3 manned Aircraft” (80 Fed. Reg. 78593) and any subse-  
4 quent final rule, including metrics with respect to—

5 (1) the levels of compliance with the interim  
6 final rule and any subsequent final rule;

7 (2) the number of enforcement actions taken by  
8 the Administration for violations of or noncompli-  
9 ance with the interim final rule and any subsequent  
10 final rule, together with a description of the actions;  
11 and

12 (3) the effect of the interim final rule and any  
13 subsequent final rule on compliance with any fees  
14 associated with the use of small unmanned aircraft  
15 systems.

16 (b) EVALUATION.—The Inspector General of the De-  
17 partment of Transportation shall evaluate—

18 (1) the Administration’s progress in developing  
19 and tracking the metrics set forth in subsection (a);  
20 and

21 (2) the reliability, effectiveness, and efficiency  
22 of the Administration’s registration program for  
23 small unmanned aircraft.

24 (c) REPORT.—Not later than 1 year after the date  
25 of enactment of this Act, the Inspector General of the De-

1 partment of Transportation shall submit to the Committee  
2 on Transportation and Infrastructure of the House of  
3 Representatives and the Committee on Commerce,  
4 Science, and Transportation of the Senate a report con-  
5 taining—

6           (1) the results of the evaluation required under  
7           subsection (b); and

8           (2) recommendations to the Administrator and  
9           Congress for improvements to the registration proc-  
10          ess for small unmanned aircraft.

11 **SEC. 338. STUDY ON ROLES OF GOVERNMENTS RELATING**  
12                           **TO LOW-ALTITUDE OPERATION OF SMALL**  
13                           **UNMANNED AIRCRAFT.**

14          (a) IN GENERAL.—Not later than 60 days after the  
15 date of enactment of this Act, the Inspector General of  
16 the Department of Transportation shall initiate a study  
17 on—

18           (1) the regulation and oversight of the low-alti-  
19           tude operations of small unmanned aircraft and  
20           small unmanned aircraft systems; and

21           (2) the appropriate roles and responsibilities of  
22           Federal, State, local, and Tribal governments in reg-  
23           ulating and overseeing the operations of small un-  
24           manned aircraft in airspace 400 feet above ground  
25           level and below.

1 (b) CONSIDERATIONS.—In carrying out the study,  
2 the Inspector General shall consider, at a minimum—

3 (1) the recommendations of Task Group 1 of  
4 the Drone Advisory Committee chartered by the  
5 Federal Aviation Administration on August 31,  
6 2016;

7 (2) the legal and policy requirements necessary  
8 for the safe and financially viable development and  
9 growth of the unmanned aircraft industry;

10 (3) the interests of Federal, State, local, and  
11 Tribal governments affected by low-altitude oper-  
12 ations of small unmanned aircraft;

13 (4) the existing authorities of Federal, State,  
14 local, and Tribal governments to protect the inter-  
15 ests referenced in paragraph (3);

16 (5) the degree of regulatory consistency re-  
17 quired for the safe and financially viable growth and  
18 development of the unmanned aircraft industry;

19 (6) the degree of local variance possible among  
20 regulations consistent with the safe and financially  
21 viable growth and development of the unmanned air-  
22 craft industry;

23 (7) the appropriate roles of State, local, and  
24 Tribal governments in regulating the operations of  
25 small unmanned aircraft within the lateral bound-

1 aries of their jurisdiction in the categories of air-  
2 space described in subsection (a)(2);

3 (8) the subjects and types of regulatory author-  
4 ity that should remain with the Federal Government;

5 (9) the infrastructure requirements necessary  
6 for monitoring the low-altitude operations of small  
7 unmanned aircraft and enforcing applicable laws;

8 (10) the number of small businesses involved in  
9 the various sectors of the unmanned aircraft indus-  
10 try and operating as primary users of small un-  
11 manned aircraft; and

12 (11) any best practices, lessons learned, or poli-  
13 cies of jurisdictions outside the United States relat-  
14 ing to local or regional regulation and oversight of  
15 small unmanned aircraft and other emergent tech-  
16 nologies.

17 (c) REPORT TO CONGRESS.—Not later than 180 days  
18 after initiating the study, the Inspector General shall sub-  
19 mit to the Committee on Transportation and Infrastruc-  
20 ture of the House of Representatives and the Committee  
21 on Commerce, Science, and Transportation of the Senate  
22 a report on the results of the study.

1 **SEC. 339. STUDY ON FINANCING OF UNMANNED AIRCRAFT**  
2 **SERVICES.**

3 (a) IN GENERAL.—Not later than 60 days after the  
4 date of enactment of this Act, the Comptroller General  
5 of the United States shall initiate a study on appropriate  
6 fee mechanisms to recover the costs of—

7 (1) the regulation and safety oversight of un-  
8 manned aircraft and unmanned aircraft systems;  
9 and

10 (2) the provision of air navigation services to  
11 unmanned aircraft and unmanned aircraft systems.

12 (b) CONSIDERATIONS.—In carrying out the study,  
13 the Comptroller General shall consider, at a minimum—

14 (1) the recommendations of Task Group 3 of  
15 the Drone Advisory Committee chartered by the  
16 Federal Aviation Administration on August 31,  
17 2016;

18 (2) the total annual costs incurred by the Fed-  
19 eral Aviation Administration for the regulation and  
20 safety oversight of activities related to unmanned  
21 aircraft;

22 (3) the annual costs attributable to various  
23 types, classes, and categories of unmanned aircraft  
24 activities;

1           (4) air traffic services provided to unmanned  
2 aircraft operating under instrument flight rules, ex-  
3 cluding public aircraft;

4           (5) the number of full-time Federal Aviation  
5 Administration employees dedicated to unmanned  
6 aircraft programs;

7           (6) the use of privately operated UTM and  
8 other privately operated unmanned aircraft systems;

9           (7) the projected growth of unmanned aircraft  
10 operations for various applications and the estimated  
11 need for regulation, oversight, and other services;

12           (8) the number of small businesses involved in  
13 the various sectors of the unmanned aircraft indus-  
14 try and operating as primary users of unmanned air-  
15 craft; and

16           (9) any best practices or policies utilized by ju-  
17 risdictions outside the United States relating to par-  
18 tial or total recovery of regulation and safety over-  
19 sight costs related to unmanned aircraft and other  
20 emergent technologies.

21       (c) REPORT TO CONGRESS.—Not later than 180 days  
22 after initiating the study, the Comptroller General shall  
23 submit to the Committee on Transportation and Infra-  
24 structure of the House of Representatives and the Com-  
25 mittee on Commerce, Science, and Transportation of the

1 Senate a report containing recommendations on appro-  
2 priate fee mechanisms to recover the costs of regulating  
3 and providing air navigation services to unmanned aircraft  
4 and unmanned aircraft systems.

5 **SEC. 340. UPDATE OF FAA COMPREHENSIVE PLAN.**

6 (a) IN GENERAL.—Not later than 270 days after the  
7 date of enactment of this Act, the Secretary of Transpor-  
8 tation shall update the comprehensive plan developed pur-  
9 suant to section 332 of the FAA Modernization and Re-  
10 form Act of 2012 (49 U.S.C. 40101 note) to develop a  
11 concept of operations for the integration of unmanned air-  
12 craft into the national airspace system.

13 (b) CONSIDERATIONS.—In carrying out the update,  
14 the Secretary shall consider, at a minimum—

15 (1) the potential use of UTM and other tech-  
16 nologies to ensure the safe and lawful operation of  
17 unmanned aircraft in the national airspace system;

18 (2) the appropriate roles, responsibilities, and  
19 authorities of government agencies and the private  
20 sector in identifying and reporting unlawful or  
21 harmful operations and operators of unmanned air-  
22 craft;

23 (3) the use of models, threat assessments, prob-  
24 abilities, and other methods to distinguish between



1 lawful and unlawful operations of unmanned air-  
2 craft; and

3 (4) appropriate systems, training, intergovern-  
4 mental processes, protocols, and procedures to miti-  
5 gate risks and hazards posed by unlawful or harmful  
6 operations of unmanned aircraft systems.

7 (c) CONSULTATION.—The Secretary shall carry out  
8 the update in consultation with representatives of the avia-  
9 tion industry, Federal agencies that employ unmanned air-  
10 craft systems technology in the national airspace system,  
11 and the unmanned aircraft systems industry.

12 **SEC. 341. COOPERATION RELATED TO CERTAIN COUNTER-**  
13 **UAS TECHNOLOGY.**

14 In matters relating to the use of systems in the na-  
15 tional airspace system intended to mitigate threats posed  
16 by errant or hostile unmanned aircraft system operations,  
17 the Secretary of Transportation shall consult with the Sec-  
18 retary of Defense to streamline deployment of such sys-  
19 tems by drawing upon the expertise and experience of the  
20 Department of Defense in acquiring and operating such  
21 systems consistent with the safe and efficient operation  
22 of the national airspace system.

1                   **TITLE IV—AIR SERVICE**  
2                   **IMPROVEMENTS**  
3           **Subtitle A—Airline Customer**  
4           **Service Improvements**

5 **SEC. 401. RELIABLE AIR SERVICE IN AMERICAN SAMOA.**

6           Section 40109(g) of title 49, United States Code, is  
7 amended—

8                   (1) in paragraph (2) by striking subparagraph  
9                   (C) and inserting the following:

10                   “(C) review the exemption at least every 30  
11                   days (or, in the case of an exemption that is nec-  
12                   essary to provide and sustain air transportation in  
13                   American Samoa between the islands of Tutuila and  
14                   Manu’a, at least every 180 days) to ensure that the  
15                   unusual circumstances that established the need for  
16                   the exemption still exist.”; and

17                   (2) by striking paragraph (3) and inserting the  
18                   following:

19                   “(3) RENEWAL OF EXEMPTIONS.—

20                   “(A) IN GENERAL.—Except as provided in  
21                   subparagraph (B), the Secretary may renew an  
22                   exemption (including renewals) under this sub-  
23                   section for not more than 30 days.

24                   “(B) EXCEPTION.—The Secretary may  
25                   renew an exemption (including renewals) under



1           “(A) member of the flight crew on duty on  
2           an aircraft;

3           “(B) flight attendant on duty on an air-  
4           craft; and

5           “(C) Federal law enforcement officer act-  
6           ing in an official capacity.

7           “(b) DEFINITIONS.—In this section, the following  
8           definitions apply:

9           “(1) FLIGHT.—The term ‘flight’ means, with  
10          respect to an aircraft, the period beginning when the  
11          aircraft takes off and ending when the aircraft  
12          lands.

13          “(2) MOBILE COMMUNICATIONS DEVICE.—

14                 “(A) IN GENERAL.—The term ‘mobile  
15                 communications device’ means any portable  
16                 wireless telecommunications equipment utilized  
17                 for the transmission or reception of voice data.

18                 “(B) LIMITATION.—The term ‘mobile com-  
19                 munications device’ does not include a phone in-  
20                 stalled on an aircraft.”.

21          (b) CLERICAL AMENDMENT.—The analysis for chap-  
22          ter 417 of title 49, United States Code, is amended by  
23          inserting after the item relating to section 41724 the fol-  
24          lowing:

“41725. Prohibition on certain cell phone voice communications.”.

1 **SEC. 403. ADVISORY COMMITTEE FOR AVIATION CON-**  
2 **SUMER PROTECTION.**

3 Section 411 of the FAA Modernization and Reform  
4 Act of 2012 (49 U.S.C. 42301 prec. note) is amended—

5 (1) in subsection (b)—

6 (A) by redesignating paragraphs (3) and  
7 (4) as paragraphs (4) and (5), respectively; and

8 (B) by inserting after paragraph (2) the  
9 following:

10 “(3) independent distributors of travel;”;

11 (2) in subsection (g) by striking “first 2 cal-  
12 endar years” and inserting “first 6 calendar years”;

13 and

14 (3) in subsection (h) by striking “2018” and in-  
15 serting “2023”.

16 **SEC. 404. IMPROVED NOTIFICATION OF INSECTICIDE USE.**

17 Section 42303(b) of title 49, United States Code, is  
18 amended to read as follows:

19 “(b) **REQUIRED DISCLOSURES.**—An air carrier, for-  
20 eign air carrier, or ticket agent selling, in the United  
21 States, a ticket for a flight in foreign air transportation  
22 to a country listed on the internet website established  
23 under subsection (a) shall—

24 “(1) disclose, on its own internet website or  
25 through other means, that the destination country  
26 may require the air carrier or foreign air carrier to

1 treat an aircraft passenger cabin with insecticides  
2 prior to the flight or to apply an aerosol insecticide  
3 in an aircraft cabin used for such a flight when the  
4 cabin is occupied with passengers; and

5 “(2) refer the purchaser of the ticket to the  
6 internet website established under subsection (a) for  
7 additional information.”.

8 **SEC. 405. ADVERTISEMENTS AND DISCLOSURE OF FEES**  
9 **FOR PASSENGER AIR TRANSPORTATION.**

10 (a) FULL FARE ADVERTISING.—

11 (1) IN GENERAL.—Section 41712 of title 49,  
12 United States Code, is amended by adding at the  
13 end the following:

14 “(d) FULL FARE ADVERTISING.—

15 “(1) IN GENERAL.—It shall not be an unfair or  
16 deceptive practice under subsection (a) for a covered  
17 entity to state in an advertisement or solicitation for  
18 passenger air transportation the base airfare for the  
19 air transportation if the covered entity clearly and  
20 separately discloses—

21 “(A) the government-imposed fees and  
22 taxes associated with the air transportation;  
23 and

24 “(B) the total cost of the air transpor-  
25 tation.

1           “(2) FORM OF DISCLOSURE.—

2                   “(A) IN GENERAL.—For purposes of para-  
3 graph (1), the information described in para-  
4 graphs (1)(A) and (1)(B) shall be disclosed in  
5 the advertisement or solicitation in a manner  
6 that clearly presents the information to the con-  
7 sumer.

8                   “(B) INTERNET ADVERTISEMENTS AND  
9 SOLICITATIONS.—For purposes of paragraph  
10 (1), with respect to an advertisement or solicita-  
11 tion for passenger air transportation that ap-  
12 pears on an internet website or a mobile appli-  
13 cation, the information described in paragraphs  
14 (1)(A) and (1)(B) may be disclosed through a  
15 link or pop-up, as such terms may be defined  
16 by the Secretary, that displays the information  
17 in a manner that is easily accessible and  
18 viewable by the consumer.

19           “(3) DEFINITIONS.—In this subsection, the fol-  
20 lowing definitions apply:

21                   “(A) BASE AIRFARE.—The term ‘base air-  
22 fare’ means the cost of passenger air transpor-  
23 tation, excluding government-imposed fees and  
24 taxes.

1           “(B) COVERED ENTITY.—The term ‘cov-  
2           ered entity’ means an air carrier, including an  
3           indirect air carrier, foreign air carrier, ticket  
4           agent, or other person offering to sell tickets for  
5           passenger air transportation or a tour or tour  
6           component that must be purchased with air  
7           transportation.”.

8           (2) LIMITATION ON STATUTORY CONSTRUC-  
9           TION.—Nothing in the amendment made by para-  
10          graph (1) may be construed to affect any obligation  
11          of a person that sells air transportation to disclose  
12          the total cost of the air transportation, including  
13          government-imposed fees and taxes, prior to pur-  
14          chase of the air transportation.

15          (3) REGULATIONS.—Not later than 120 days  
16          after the date of enactment of this Act, the Sec-  
17          retary of Transportation shall issue final regulations  
18          to carry out the amendment made by paragraph (1).

19          (4) EFFECTIVE DATE.—This subsection, and  
20          the amendments made by this subsection, shall take  
21          effect on the earlier of—

22                 (A) the effective date of regulations issued  
23                 under paragraph (3); and

24                 (B) the date that is 180 days after the  
25                 date of enactment of this Act.



1 (b) DISCLOSURE OF FEES.—Section 41712 of title  
2 49, United States Code, as amended by this section, is  
3 further amended by adding at the end the following:

4 “(e) DISCLOSURE OF FEES.—

5 “(1) IN GENERAL.—It shall be an unfair or de-  
6 ceptive practice under subsection (a) for any air car-  
7 rier, foreign air carrier, or ticket agent to fail to in-  
8 clude, in an internet fare quotation for a specific  
9 itinerary in air transportation selected by a con-  
10 sumer—

11 “(A) a clear and prominent statement that  
12 additional fees for checked baggage and carry-  
13 on baggage may apply; and

14 “(B) a prominent link that connects di-  
15 rectly to a list of all such fees.

16 “(2) SAVINGS PROVISION.—Nothing in this sub-  
17 section may be construed to derogate or limit any  
18 responsibilities of an air carrier, foreign air carrier,  
19 or ticket agent under section 399.85 of title 14,  
20 Code of Federal Regulations, or any successor provi-  
21 sion.”.

1 **SEC. 406. INVOLUNTARILY BUMPING PASSENGERS AFTER**  
2 **AIRCRAFT BOARDED.**

3 Section 41712 of title 49, United States Code, as  
4 amended by this Act, is further amended by adding at the  
5 end the following:

6 “(f) INVOLUNTARILY DENIED BOARDING AFTER  
7 AIRCRAFT BOARDED.—

8 “(1) IN GENERAL.—It shall be an unfair or de-  
9 ceptive practice under subsection (a) for an air car-  
10 rier or foreign air carrier subject to part 250 of title  
11 14, Code of Federal Regulations, to involuntarily  
12 deplane a revenue passenger onboard an aircraft, if  
13 the revenue passenger—

14 “(A) is traveling on a confirmed reserva-  
15 tion; and

16 “(B) checked-in for the relevant flight  
17 prior to the check-in deadline.

18 “(2) SAVINGS PROVISION.—Nothing in this sub-  
19 section may be construed to limit the authority of an  
20 air carrier, foreign air carrier, or airman to remove  
21 a passenger in accordance with—

22 “(A) section 91.3, 121.533(d), or 121.580  
23 of title 14, Code of Federal Regulations, or any  
24 successor provision; or

25 “(B) any other applicable Federal, State,  
26 or local law.”.

1 **SEC. 407. AVAILABILITY OF CONSUMER RIGHTS INFORMA-**  
2 **TION.**

3 Section 42302(b) of title 49, United States Code, is  
4 amended—

5 (1) in the matter preceding paragraph (1) by  
6 striking “on the” and inserting “in a prominent  
7 place on the homepage of the primary”;

8 (2) in paragraph (2) by striking “and” at the  
9 end;

10 (3) in paragraph (3) by striking the period at  
11 the end and inserting “; and”; and

12 (4) by adding at the end the following:

13 “(4) the air carrier’s customer service plan.”.

14 **SEC. 408. CONSUMER COMPLAINTS HOTLINE.**

15 Section 42302 of title 49, United States Code, is  
16 amended by adding at the end the following:

17 “(d) USE OF NEW TECHNOLOGIES.—The Secretary  
18 shall periodically evaluate the benefits of using mobile  
19 phone applications or other widely used technologies to  
20 provide new means for air passengers to communicate  
21 complaints in addition to the telephone number estab-  
22 lished under subsection (a) and shall provide such new  
23 means as the Secretary determines appropriate.”.

1 **SEC. 409. WIDESPREAD DISRUPTIONS.**

2 (a) IN GENERAL.—Chapter 423 of title 49, United  
3 States Code, is amended by adding at the end the fol-  
4 lowing:

5 **“§ 42304. Widespread disruptions**

6 “(a) GENERAL REQUIREMENTS.—In the event of a  
7 widespread disruption, a covered air carrier shall imme-  
8 diately publish, via a prominent link on the air carrier’s  
9 public internet website, a clear statement indicating  
10 whether, with respect to a passenger of the air carrier  
11 whose travel is interrupted as a result of the widespread  
12 disruption, the air carrier will—

13 “(1) provide for hotel accommodations;

14 “(2) arrange for ground transportation;

15 “(3) provide meal vouchers;

16 “(4) arrange for air transportation on another  
17 air carrier or foreign air carrier to the passenger’s  
18 destination; and

19 “(5) provide for sleeping facilities inside the air-  
20 port terminal.

21 “(b) DEFINITIONS.—In this section, the following  
22 definitions apply:

23 “(1) WIDESPREAD DISRUPTION.—The term  
24 ‘widespread disruption’ means, with respect to a cov-  
25 ered air carrier, the interruption of all or the over-  
26 whelming majority of the air carrier’s systemwide

1 flight operations, including flight delays and can-  
2 cellations, as the result of the failure of 1 or more  
3 computer systems or computer networks of the air  
4 carrier.

5 “(2) COVERED AIR CARRIER.—The term ‘cov-  
6 ered air carrier’ means an air carrier that provides  
7 scheduled passenger air transportation by operating  
8 an aircraft that as originally designed has a pas-  
9 senger capacity of 30 or more seats.

10 “(c) SAVINGS PROVISION.—Nothing in this section  
11 may be construed to modify, abridge, or repeal any obliga-  
12 tion of an air carrier under section 42301.”.

13 (b) CONFORMING AMENDMENT.—The analysis for  
14 chapter 423 of title 49, United States Code, is amended  
15 by adding at the end the following:

“42304. Widespread disruptions.”.

16 **SEC. 410. INVOLUNTARILY DENIED BOARDING COMPENSA-**  
17 **TION.**

18 Not later than 60 days after the date of enactment  
19 of this Act, the Secretary of Transportation shall issue a  
20 final rule to revise part 250 of title 14, Code of Federal  
21 Regulations, to clarify that—

22 (1) there is not a maximum level of compensa-  
23 tion an air carrier or foreign air carrier may pay to  
24 a passenger who is involuntarily denied boarding as  
25 the result of an oversold flight;

1           (2) the compensation levels set forth in that  
2 part are the minimum levels of compensation an air  
3 carrier or foreign air carrier must pay to a pas-  
4 senger who is involuntarily denied boarding as the  
5 result of an oversold flight; and

6           (3) an air carrier or foreign air carrier must  
7 proactively offer to pay compensation to a passenger  
8 who is voluntarily or involuntarily denied boarding  
9 on an oversold flight, rather than waiting until the  
10 passenger requests the compensation.

11 **SEC. 411. CONSUMER INFORMATION ON ACTUAL FLIGHT**  
12 **TIMES.**

13       (a) **STUDY.**—The Secretary of Transportation shall  
14 conduct a study on the feasibility and advisability of modi-  
15 fying regulations contained in section 234.11 of title 14,  
16 Code of Federal Regulations, to ensure that—

17           (1) a reporting carrier (including its contrac-  
18 tors), during the course of a reservation or ticketing  
19 discussion or other inquiry, discloses to a consumer  
20 upon reasonable request the projected period be-  
21 tween the actual wheels-off and wheels-on times for  
22 a reportable flight; and

23           (2) a reporting carrier displays, on the public  
24 internet website of the carrier, information on the

1 actual wheels-off and wheels-on times during the  
2 most recent calendar month for a reportable flight.

3 (b) DEFINITIONS.—In this section, the terms “re-  
4 porting carrier” and “reportable flight” have the mean-  
5 ings given those terms in section 234.2 of title 14, Code  
6 of Federal Regulations (as in effect on the date of enact-  
7 ment of this Act).

8 (c) REPORT.—Not later than 1 year after the date  
9 of enactment of this Act, the Secretary shall submit to  
10 the Committee on Transportation and Infrastructure of  
11 the House of Representatives and the Committee on Com-  
12 merce, Science, and Transportation of the Senate a report  
13 on the results of the study.

14 **SEC. 412. ADVISORY COMMITTEE FOR TRANSPARENCY IN**  
15 **AIR AMBULANCE INDUSTRY.**

16 (a) IN GENERAL.—Not later than 90 days after the  
17 date of enactment of this Act, the Secretary of Transpor-  
18 tation shall establish an advisory committee to make rec-  
19 ommendations for a rulemaking—

20 (1) to require air ambulance operators to clear-  
21 ly disclose charges for air transportation services  
22 separately from charges for non-air transportation  
23 services within any invoice or bill; and

24 (2) to provide other consumer protections for  
25 customers of air ambulance operators.

1 (b) COMPOSITION OF THE ADVISORY COMMITTEE.—

2 The advisory committee shall be composed of the following  
3 members:

4 (1) The Secretary of Transportation.

5 (2) 1 representative, to be appointed by the  
6 Secretary, of each of the following:

7 (A) Each relevant Federal agency, as de-  
8 termined by the Secretary.

9 (B) Air ambulance operators.

10 (C) State insurance regulators.

11 (D) Health insurance providers.

12 (E) Consumer groups.

13 (c) RECOMMENDATIONS.—The advisory committee  
14 shall make recommendations with respect to each of the  
15 following:

16 (1) Cost-allocation methodologies needed to en-  
17 sure that charges for air transportation services are  
18 separated from charges for non-air transportation  
19 services.

20 (2) Cost- or price-allocation methodologies to  
21 prevent commingling of charges for air transpor-  
22 tation services and charges for non-air transpor-  
23 tation services in bills and invoices.

24 (3) Formats for bills and invoices to ensure  
25 that customers and State insurance regulators can



1 clearly distinguish between charges for air transpor-  
2 tation services and charges for non-air transpor-  
3 tation services.

4 (4) Data or industry references related to air-  
5 craft operating costs to be used in determining the  
6 proper allocation of charges for air transportation  
7 services and charges for non-air transportation serv-  
8 ices.

9 (5) Guidance materials to instruct States, polit-  
10 ical subdivisions of States, and political authorities  
11 of 2 or more States on referring to the Secretary al-  
12 legations of unfair or deceptive practices or unfair  
13 methods of competition by air ambulance operators.

14 (6) Protections for customers of air ambulance  
15 operators, after consideration of the circumstances  
16 in which the services of air ambulance operators are  
17 used.

18 (7) Protections of proprietary cost data from  
19 inappropriate public disclosure.

20 (8) Such other matters as the Secretary deter-  
21 mines necessary or appropriate.

22 (d) REPORT.—Not later than 180 days after the date  
23 of the first meeting of the advisory committee, the advi-  
24 sory committee shall submit to the Secretary, the Com-  
25 mittee on Transportation and Infrastructure of the House

1 of Representatives, and the Committee on Commerce,  
2 Science, and Transportation of the Senate a report con-  
3 taining the recommendations made under subsection (c).

4 (e) RULEMAKING.—Not later than 180 days after the  
5 date of receipt of the report under subsection (d), the Sec-  
6 retary shall consider the recommendations of the advisory  
7 committee and issue a final rule—

8 (1) to require air ambulance operators to clear-  
9 ly disclose charges for air transportation services  
10 separately from charges for non-air transportation  
11 services within any invoice or bill; and

12 (2) to provide other consumer protections for  
13 customers of air ambulance operators.

14 (f) DEFINITIONS.—In this section, the following defi-  
15 nitions apply:

16 (1) AIR AMBULANCE OPERATOR.—The term  
17 “air ambulance operator” means an air carrier oper-  
18 ating pursuant to part 135 of title 14, Code of Fed-  
19 eral Regulations, that provides medical, ambulance,  
20 or related services.

21 (2) NON-AIR TRANSPORTATION SERVICES.—The  
22 term “non-air transportation services” means those  
23 services provided by air ambulance operators but not  
24 other air carriers operating pursuant to part 135 of  
25 title 14, Code of Federal Regulations.

1 (g) TERMINATION.—The advisory committee shall  
2 terminate on the date of submission of the report under  
3 subsection (d).

4 (h) NATURE OF AIR AMBULANCE SERVICES.—The  
5 non-air transportation services of air ambulance operators  
6 and prices thereof are neither services nor prices of an  
7 air carrier for purposes of section 41713 of title 49,  
8 United States Code.

9 **SEC. 413. AIR AMBULANCE COMPLAINTS.**

10 (a) CONSUMER COMPLAINTS.—Section 42302 of title  
11 49, United States Code, is amended—

12 (1) in subsection (a) by inserting “(including  
13 transportation by air ambulance)” after “air trans-  
14 portation”;

15 (2) in subsection (b)—

16 (A) in the matter preceding paragraph

17 (1)—

18 (i) by inserting “, and an air ambu-  
19 lance operator,” after “passenger seats”;  
20 and

21 (ii) by inserting “or operator” after  
22 “Internet Web site of the carrier”; and

23 (B) in paragraph (2) by inserting “or op-  
24 erator” after “mailing address of the air car-  
25 rier”; and

1           (3) by striking subsection (c) and inserting the  
2 following:

3           “(c) NOTICE TO PASSENGERS ON BOARDING OR  
4 BILLING DOCUMENTATION.—

5           “(1) AIR CARRIERS AND FOREIGN AIR CAR-  
6 RIERS.—An air carrier or foreign air carrier pro-  
7 viding scheduled air transportation using any air-  
8 craft that as originally designed has a passenger ca-  
9 pacity of 30 or more passenger seats shall include  
10 the hotline telephone number established under sub-  
11 section (a) on—

12           “(A) prominently displayed signs of the  
13 carrier at the airport ticket counters in the  
14 United States where the air carrier operates;  
15 and

16           “(B) any electronic confirmation of the  
17 purchase of a passenger ticket for air transpor-  
18 tation issued by the air carrier.

19           “(2) AIR AMBULANCE OPERATORS.—An air am-  
20 bulance operator shall include the hotline telephone  
21 number established under subsection (a) on any in-  
22 voice, bill, or other communication provided to a  
23 passenger or customer of the operator.”.

1 (b) UNFAIR AND DECEPTIVE PRACTICES AND UN-  
2 FAIR METHODS OF COMPETITION.—Section 41712(a) of  
3 title 49, United States Code, is amended—

4 (1) by inserting “air ambulance customer,”  
5 after “foreign air carrier,” the first place it appears;  
6 and

7 (2) by adding at the end the following: “In this  
8 subsection, the term ‘air carrier’ includes an air am-  
9 bulance operator and the term ‘air transportation’  
10 includes any transportation provided by an air am-  
11 bulance.”.

12 **SEC. 414. PASSENGER RIGHTS.**

13 (a) GUIDELINES.—Not later than 90 days after the  
14 date of enactment of this Act, the Secretary of Transpor-  
15 tation shall require each air carrier to submit for approval  
16 a 1-page document that accurately describes the rights of  
17 passengers in air transportation, including guidelines for  
18 the following:

19 (1) Compensation (regarding rebooking options,  
20 refunds, meals, and lodging) for flight delays of var-  
21 ious lengths.

22 (2) Compensation (regarding rebooking options,  
23 refunds, meals, and lodging) for flight cancellations.

24 (3) Compensation for mishandled baggage, in-  
25 cluding delayed, damaged, pilfered, or lost baggage.

1 (4) Voluntary relinquishment of a ticketed seat  
2 due to overbooking or priority of other passengers.

3 (5) Involuntary denial of boarding and forced  
4 removal for whatever reason, including for safety  
5 and security reasons.

6 (b) APPROVAL OF GUIDELINES.—Not later than 90  
7 days after each air carrier submits its guidelines for ap-  
8 proval to the Secretary under subsection (a), the air car-  
9 rier shall make available such 1-page document on its  
10 website.

## 11 **Subtitle B—Aviation Consumers** 12 **With Disabilities**

### 13 **SEC. 441. SELECT SUBCOMMITTEE.**

14 Section 411 of the FAA Modernization and Reform  
15 Act of 2012 (49 U.S.C. 42301 prec. note), as amended  
16 by this Act, is further amended—

17 (1) by redesignating subsections (g) and (h) as  
18 subsections (h) and (i), respectively; and

19 (2) by inserting after subsection (f) the fol-  
20 lowing:

21 “(g) SELECT SUBCOMMITTEE FOR AVIATION CON-  
22 SUMERS WITH DISABILITIES.—

23 “(1) IN GENERAL.—The Secretary shall estab-  
24 lish a select subcommittee of the advisory committee  
25 to advise the Secretary and the advisory committee

1 on issues related to the air travel needs of pas-  
2 sengers with disabilities.

3 “(2) DUTIES.—The select subcommittee shall—

4 “(A) identify the disability-related access  
5 barriers encountered by passengers with disabili-  
6 ties;

7 “(B) determine the extent to which the  
8 programs and activities of the Department of  
9 Transportation are addressing the barriers  
10 identified under subparagraph (A);

11 “(C) recommend consumer protection im-  
12 provements related to the air travel experience  
13 of passengers with disabilities;

14 “(D) advise the Secretary with regard to  
15 the implementation of section 41705 of title 49,  
16 United States Code; and

17 “(E) conduct such other activities as the  
18 Secretary considers necessary to carry out this  
19 subsection.

20 “(3) MEMBERSHIP.—

21 “(A) COMPOSITION.—The select sub-  
22 committee shall be composed of members ap-  
23 pointed by the Secretary, including at least 1  
24 individual representing each of the following:

25 “(i) National disability organizations.

1           “(ii) Air carriers and foreign air car-  
2           riers with flights in air transportation.

3           “(iii) Airport operators.

4           “(iv) Contractor service providers.

5           “(B) INCLUSION.—A member of the select  
6           subcommittee may also be a member of the ad-  
7           visory committee.

8           “(4) REPORTS.—

9           “(A) IN GENERAL.—Not later than 1 year  
10          after the date of establishment of the select  
11          subcommittee, the select subcommittee shall  
12          submit to the advisory committee and the Sec-  
13          retary a report on the air travel needs of pas-  
14          sengers with disabilities that includes—

15               “(i) an assessment of existing dis-  
16               ability-related access barriers and any  
17               emerging disability-related access barriers  
18               that will likely be an issue in the next 5  
19               years;

20               “(ii) an evaluation of the extent to  
21               which the programs and activities of the  
22               Department of Transportation are elimi-  
23               nating disability-related access barriers;

24               “(iii) a description of consumer pro-  
25               tection improvements related to the air



1 travel experience of passengers with dis-  
2 abilities; and

3 “(iv) any recommendations for legisla-  
4 tion, regulations, or other actions that the  
5 select subcommittee considers appropriate.

6 “(B) REPORT TO CONGRESS.—Not later  
7 than 60 days after the date on which the Sec-  
8 retary receives the report under subparagraph  
9 (A), the Secretary shall submit to Congress a  
10 copy of the report, including any additional  
11 findings or recommendations that the Secretary  
12 considers appropriate.

13 “(5) CHAIRPERSON.—The Secretary shall des-  
14 ignate, from among the individuals appointed under  
15 paragraph (3), an individual to serve as chairperson  
16 of the select subcommittee.

17 “(6) VACANCIES AND TRAVEL EXPENSES.—  
18 Subsections (c) and (d) shall apply to the select sub-  
19 committee.

20 “(7) TERMINATION.—The select subcommittee  
21 established under this subsection shall terminate  
22 upon submission of the report required under para-  
23 graph (4)(A).”.

1 **SEC. 442. AVIATION CONSUMERS WITH DISABILITIES**  
2 **STUDY.**

3 (a) **STUDY.**—Not later than 180 days after the date  
4 of enactment of this Act, the Comptroller General of the  
5 United States shall conduct a study that includes—

6 (1) a review of airport accessibility best prac-  
7 tices for individuals with disabilities, including best  
8 practices that improve infrastructure facilities and  
9 communications methods, including those related to  
10 wayfinding, amenities, and passenger care;

11 (2) a review of air carrier and airport training  
12 policies related to section 41705 of title 49, United  
13 States Code;

14 (3) a review of air carrier training policies re-  
15 lated to properly assisting passengers with disabil-  
16 ities; and

17 (4) a review of accessibility best practices that  
18 exceed those recommended under Public Law 90–  
19 480 (popularly known as the Architectural Barriers  
20 Act of 1968; 42 U.S.C. 4151 et seq.), the Rehabili-  
21 tation Act of 1973 (29 U.S.C. 701 et seq.), the Air  
22 Carrier Access Act of 1986 (Public Law 99–435;  
23 100 Stat. 1080 et seq.), and the Americans with  
24 Disabilities Act of 1990 (42 U.S.C. 12101 et seq.).

25 (b) **REPORT.**—Not later than 1 year after the date  
26 of enactment of this Act, the Comptroller General shall

1 submit to the Secretary of Transportation, the Committee  
2 on Transportation and Infrastructure of the House of  
3 Representatives, and the Committee on Commerce,  
4 Science, and Transportation of the Senate a report on the  
5 study, including findings and recommendations.

6 **SEC. 443. FEASIBILITY STUDY ON IN-CABIN WHEELCHAIR**  
7 **RESTRAINT SYSTEMS.**

8 (a) STUDY.—Not later than 2 years after the date  
9 of enactment of this Act, the Secretary of Transportation,  
10 in consultation with the Architectural and Transportation  
11 Barriers Compliance Board, aircraft manufacturers, and  
12 air carriers, shall conduct a study to determine—

13 (1) the feasibility of in-cabin wheelchair re-  
14 straint systems; and

15 (2) if feasible, the ways in which individuals  
16 with significant disabilities using wheelchairs, includ-  
17 ing power wheelchairs, can be accommodated with  
18 in-cabin wheelchair restraint systems.

19 (b) REPORT.—Not later than 1 year after the initi-  
20 ation of the study under subsection (a), the Secretary of  
21 Transportation shall submit to the Committee on Trans-  
22 portation and Infrastructure of the House of Representa-  
23 tives and the Committee on Commerce, Science, and  
24 Transportation of the Senate a report on the findings of  
25 the study.

1 **SEC. 444. ACCESS ADVISORY COMMITTEE RECOMMENDA-**  
2 **TIONS.**

3 (a) IN GENERAL.—Not later than 1 year after the  
4 date of enactment of this Act, the Secretary of Transpor-  
5 tation shall issue a notice of proposed rulemaking address-  
6 ing—

7 (1) accommodations for air travelers with dis-  
8 abilities with respect to in-flight entertainment;

9 (2) accessible lavatories on single-aisle aircraft;  
10 and

11 (3) service animals.

12 (b) RULEMAKING.—Not later than 1 year after the  
13 date on which the notice of proposed rulemaking is issued,  
14 the Secretary shall publish a final rule based on such no-  
15 tice.

16 **Subtitle C—Small Community Air**  
17 **Service**

18 **SEC. 451. ESSENTIAL AIR SERVICE AUTHORIZATION.**

19 Section 41742(a)(2) of title 49, United States Code,  
20 is amended by striking “\$150,000,000 for fiscal year  
21 2011” and all that follows before “to carry out” and in-  
22 serting “\$153,000,000 for fiscal year 2018, \$156,000,000  
23 for fiscal year 2019, \$159,000,000 for fiscal year 2020,  
24 \$162,000,000 for fiscal year 2021, \$165,000,000 for fis-  
25 cal year 2022, and \$168,000,000 for fiscal year 2023”.

1 **SEC. 452. EXTENSION OF FINAL ORDER ESTABLISHING**  
2 **MILEAGE ADJUSTMENT ELIGIBILITY.**

3 Section 409(d) of the Vision 100—Century of Avia-  
4 tion Reauthorization Act (49 U.S.C. 41731 note) is  
5 amended by striking “2018” and inserting “2023”.

6 **SEC. 453. STUDY ON ESSENTIAL AIR SERVICE REFORM.**

7 (a) STUDY.—

8 (1) IN GENERAL.—The Comptroller General of  
9 the United States shall conduct a study on the ef-  
10 fects of section 6 of the Airport and Airway Exten-  
11 sion Act of 2011, Part IV (Public Law 112–27), sec-  
12 tion 421 of the FAA Modernization and Reform Act  
13 of 2012 (Public Law 112–95), and other relevant  
14 Federal laws enacted after 2010, including the  
15 amendments made by those laws, on the Essential  
16 Air Service program.

17 (2) SCOPE.—In conducting the study under  
18 paragraph (1), the Comptroller General shall ana-  
19 lyze, at a minimum—

20 (A) the impact of each relevant Federal  
21 law, including the amendments made by each  
22 law, on the Essential Air Service program;

23 (B) what actions communities and air car-  
24 riers have taken to reduce ticket prices or in-  
25 crease enplanements as a result of each law;

1 (C) the issuance of waivers by the Sec-  
2 retary under section 41731(e) of title 49,  
3 United States Code;

4 (D) whether budgetary savings resulted  
5 from each law; and

6 (E) options for further reform of the Es-  
7 sential Air Service program.

8 (b) REPORT.—Not later than 180 days after the date  
9 of enactment of this Act, the Comptroller General shall  
10 submit to the Committee on Transportation and Infra-  
11 structure of the House of Representatives and the Com-  
12 mittee on Commerce, Science, and Transportation of the  
13 Senate a report on the results of the study conducted  
14 under subsection (a).

15 **SEC. 454. SMALL COMMUNITY AIR SERVICE.**

16 (a) ELIGIBILITY.—Section 41743(c) of title 49,  
17 United States Code, is amended—

18 (1) by striking paragraph (1) and inserting the  
19 following:

20 “(1) SIZE.—On the date of submission of the  
21 relevant application under subsection (b), the airport  
22 serving the community or consortium—

23 “(A) is not larger than a small hub air-  
24 port, as determined using the Department of

1 Transportation’s most recently published classi-  
2 fication; and

3 “(B) has—

4 “(i) insufficient air carrier service; or

5 “(ii) unreasonably high air fares.”;

6 (2) in paragraph (4)—

7 (A) by striking “once,” and inserting  
8 “once in a 10-year period,”; and

9 (B) by inserting “at any time” after “dif-  
10 ferent project”; and

11 (3) in paragraph (5)—

12 (A) by redesignating subparagraphs (E)  
13 and (F) as subparagraphs (F) and (G), respec-  
14 tively; and

15 (B) by inserting after subparagraph (D)  
16 the following:

17 “(E) the assistance will be used to help re-  
18 store scheduled passenger air service that has  
19 been terminated;”.

20 (b) AUTHORIZATION OF APPROPRIATIONS.—Section  
21 41743(e)(2) of title 49, United States Code, is amended  
22 to read as follows:

23 “(2) AUTHORIZATION OF APPROPRIATIONS.—

24 There is authorized to be appropriated to the Sec-  
25 retary \$10,000,000 for each of fiscal years 2018

1 through 2023 to carry out this section, of which  
2 \$4,800,000 per fiscal year shall be used to carry out  
3 the pilot program established under subsection (i).  
4 Such sums shall remain available until expended.”.

5 (c) REGIONAL AIR TRANSPORTATION PILOT PRO-  
6 GRAM.—Section 41743 of title 49, United States Code, is  
7 amended by adding at the end the following:

8 “(i) REGIONAL AIR TRANSPORTATION PILOT PRO-  
9 GRAM.—

10 “(1) ESTABLISHMENT.—The Secretary shall es-  
11 tablish a regional air transportation pilot program to  
12 provide operating assistance to air carriers in order  
13 to provide air service to communities not receiving  
14 sufficient air carrier service.

15 “(2) GRANTS.—The Secretary shall provide  
16 grants under the program to encourage and main-  
17 tain air service at reasonable airfares between com-  
18 munities that have experienced, as determined by  
19 the Secretary, significant declines in air service.

20 “(3) APPLICATION REQUIRED.—In order to  
21 participate in the program, a State, local govern-  
22 ment, economic development authority, or other pub-  
23 lic entity shall submit to the Secretary an applica-  
24 tion, in a manner that the Secretary prescribes, that  
25 contains—



1           “(A) an identification of an air carrier that  
2           has provided a written agreement to provide the  
3           air service in partnership with the applicant;

4           “(B) assurances that the applicant will  
5           provide the non-Federal share and that the  
6           non-Federal share is not derived from airport  
7           revenue;

8           “(C) a proposed route structure serving  
9           not more than 8 communities; and

10           “(D) a timeline for commencing the air  
11           service to the communities within the proposed  
12           route structure.

13           “(4) CRITERIA FOR PARTICIPATION.—The Sec-  
14           retary may approve up to 3 applications each fiscal  
15           year, subject to the availability of funds, if the Sec-  
16           retary determines that—

17           “(A) the proposal of the applicant can rea-  
18           sonably be expected to encourage and improve  
19           levels of air service between the relevant com-  
20           munities;

21           “(B) the applicant has adequate financial  
22           resources to ensure the commitment to the com-  
23           munities;

24           “(C) the airports serving the communities  
25           are nonhub, small hub, or medium hub airports,

1 as determined using the Department of Trans-  
2 portation’s most recently published classifica-  
3 tions; and

4 “(D) the air carrier commits to serving the  
5 communities for at least 2 years.

6 “(5) PRIORITIES.—The Secretary shall  
7 prioritize applications that—

8 “(A) would initiate new or reestablish air  
9 service in communities where air fares are high-  
10 er than the average air fares for all commu-  
11 nities;

12 “(B) are more likely to result in self-sus-  
13 taining air service at the end of the program;

14 “(C) request a Federal share lower than  
15 50 percent; and

16 “(D) propose to use grant funds in a time-  
17 ly fashion.

18 “(6) FEDERAL SHARE.—The Federal share of  
19 the cost of operating assistance provided under the  
20 program may not exceed 50 percent.

21 “(7) SUNSET.—This subsection shall cease to  
22 be effective on October 1, 2023.”.

23 **SEC. 455. AIR TRANSPORTATION TO NONELIGIBLE PLACES.**

24 (a) DEFINITIONS.—Section 41731(a)(1)(A)(ii) of  
25 title 49, United States Code, is amended by striking

1 “Wendell H. Ford Aviation Investment and Reform Act  
2 for the 21st Century,” and inserting “FAA Extension,  
3 Safety, and Security Act of 2016 (Public Law 114–190),”.

4 (b) PROGRAM SUNSET.—Section 41736 of title 49,  
5 United States Code, is amended by adding at the end the  
6 following:

7 “(h) SUNSET.—

8 “(1) PROPOSALS.—No proposal under sub-  
9 section (a) may be accepted by the Secretary after  
10 the date of enactment of this subsection.

11 “(2) PROGRAM.—The Secretary may not pro-  
12 vide any compensation under this section after the  
13 date that is 2 years after the date of enactment of  
14 this subsection.”.

## 15 **TITLE V—MISCELLANEOUS**

### 16 **SEC. 501. REVIEW OF FAA STRATEGIC CYBERSECURITY** 17 **PLAN.**

18 (a) IN GENERAL.—Not later than 1 year after the  
19 date of enactment of this Act, the Administrator of the  
20 Federal Aviation Administration shall initiate a review of  
21 the comprehensive and strategic framework of principles  
22 and policies (referred to in this section as the “frame-  
23 work”) developed pursuant to section 2111 of the FAA  
24 Extension, Safety, and Security Act of 2016 (49 U.S.C.  
25 44903 note).

1 (b) CONTENTS.—In undertaking the review under  
2 subsection (a), the Administrator shall—

3 (1) assess the degree to which the framework  
4 identifies and addresses known cybersecurity risks  
5 associated with the aviation system;

6 (2) review existing short- and long-term objec-  
7 tives for addressing cybersecurity risks to the na-  
8 tional airspace system; and

9 (3) assess the Administration’s level of engage-  
10 ment and coordination with aviation stakeholders  
11 and other appropriate agencies, organizations, or  
12 groups with which the Administration consults to  
13 carry out the framework.

14 (c) UPDATES.—Upon completion of the review under  
15 subsection (a), the Administrator shall modify the frame-  
16 work, as appropriate, to address any deficiencies identified  
17 by the review.

18 (d) REPORT TO CONGRESS.—Not later than 180 days  
19 after initiating the review required by subsection (a), the  
20 Administrator shall submit to the Committee on Trans-  
21 portation and Infrastructure of the House of Representa-  
22 tives and the Committee on Commerce, Science, and  
23 Transportation of the Senate a report on the results of  
24 the review, including a description of any modifications  
25 made to the framework.

1 **SEC. 502. CONSOLIDATION AND REALIGNMENT OF FAA**  
2 **SERVICES AND FACILITIES.**

3 Section 804(a) of the FAA Modernization and Re-  
4 form Act of 2012 (49 U.S.C. 44501 note) is amended—

5 (1) in paragraph (2) by striking “The purpose  
6 of the report shall be—” and all that follows  
7 through “(B) to reduce” and inserting “The purpose  
8 of the report shall be to reduce”; and

9 (2) by striking paragraph (4) and inserting the  
10 following:

11 “(4) INPUT.—The report shall be prepared by  
12 the Administrator (or the Administrator’s designee)  
13 with the participation of—

14 “(A) representatives of labor organizations  
15 representing air traffic control system employ-  
16 ees of the FAA; and

17 “(B) industry stakeholders.”.

18 **SEC. 503. FAA REVIEW AND REFORM.**

19 (a) AGENCY REPORT.—Not later than 60 days after  
20 the date of enactment of this Act, the Administrator of  
21 the Federal Aviation Administration shall submit to the  
22 Committee on Transportation and Infrastructure of the  
23 House of Representatives and the Committee on Com-  
24 merce, Science, and Transportation of the Senate a de-  
25 tailed analysis of any actions taken to address the findings  
26 and recommendations included in the report required

1 under section 812(d) of the FAA Modernization and Re-  
2 form Act of 2012 (49 U.S.C. 106 note), including—

3 (1) consolidating, phasing-out, or eliminating  
4 duplicative positions, programs, roles, or offices;

5 (2) eliminating or streamlining wasteful prac-  
6 tices;

7 (3) eliminating or phasing-out redundant, obso-  
8 lete, or unnecessary functions;

9 (4) reforming and streamlining inefficient proc-  
10 esses so that the activities of the Administration are  
11 completed in an expedited and efficient manner; and

12 (5) reforming or eliminating ineffectual or out-  
13 dated policies.

14 (b) ADDITIONAL REVIEW.—Not later than 18  
15 months after the date of enactment of this Act, the Ad-  
16 ministrator shall undertake and complete a thorough re-  
17 view of each program, office, and organization within the  
18 Administration to identify—

19 (1) duplicative positions, programs, roles, or of-  
20 fices;

21 (2) wasteful practices;

22 (3) redundant, obsolete, or unnecessary func-  
23 tions;

24 (4) inefficient processes; and

25 (5) ineffectual or outdated policies.

1 (c) ACTIONS TO STREAMLINE AND REFORM FAA.—

2 Not later than 60 days after the date of completion of  
3 the review under subsection (b), the Administrator shall  
4 undertake such actions as may be necessary to address  
5 the findings of the Administrator under such subsection.

6 (d) REPORT TO CONGRESS.—Not later than 120 days  
7 after the date of completion of the review under subsection  
8 (b), the Administrator shall submit to the Committee on  
9 Transportation and Infrastructure of the House of Rep-  
10 resentatives and the Committee on Commerce, Science,  
11 and Transportation of the Senate a report on the actions  
12 taken by the Administrator pursuant to subsection (c), in-  
13 cluding any recommendations for legislative or administra-  
14 tive actions.

15 **SEC. 504. AVIATION FUEL.**

16 (a) USE OF UNLEADED AVIATION GASOLINE.—The  
17 Administrator of the Federal Aviation Administration  
18 shall allow the use of an unleaded aviation gasoline in an  
19 aircraft as a replacement for a leaded gasoline if the Ad-  
20 ministrator—

21 (1) determines that an unleaded aviation gaso-  
22 line qualifies as a replacement for an approved lead-  
23 ed gasoline;

1           (2) identifies the aircraft and engines that are  
2 eligible to use the qualified replacement unleaded  
3 gasoline; and

4           (3) adopts a process (other than the traditional  
5 means of certification) to allow eligible aircraft and  
6 engines to operate using qualified replacement un-  
7 leaded gasoline in a manner that ensures safety.

8           (b) **TIMING.**—The Administrator shall adopt the  
9 process described in subsection (a)(3) not later than 180  
10 days after the later of—

11           (1) the date of completion of the Piston Avia-  
12 tion Fuels Initiative of the Administration; or

13           (2) the date of publication of an American Soci-  
14 ety for Testing and Materials Production Specifica-  
15 tion for an unleaded aviation gasoline.

16           (c) **SENSE OF CONGRESS.**—It is the sense of Con-  
17 gress that the Piston Aviation Fuels Initiative of the Ad-  
18 ministration and the American Society for Testing and  
19 Materials should work to find an appropriate unleaded  
20 aviation gasoline by January 1, 2024.

21 **SEC. 505. RIGHT TO PRIVACY WHEN USING AIR TRAFFIC**  
22 **CONTROL SYSTEM.**

23           Notwithstanding any other provision of law, the Ad-  
24 ministrator of the Federal Aviation Administration shall,  
25 upon request of a private aircraft owner or operator, block



1 the registration number of the aircraft of the owner or  
2 operator from any public dissemination or display, except  
3 in data made available to a Government agency, for the  
4 noncommercial flights of the owner or operator.

5 **SEC. 506. AIR SHOWS.**

6 On an annual basis, the Administrator of the Federal  
7 Aviation Administration shall work with representatives of  
8 Administration-approved air shows, the general aviation  
9 community, and stadiums and other large outdoor events  
10 and venues to identify and resolve, to the maximum extent  
11 practicable, scheduling conflicts between Administration-  
12 approved air shows and large outdoor events and venues  
13 where—

14 (1) flight restrictions will be imposed pursuant  
15 to section 521 of title V of division F of Public Law  
16 108–199 (118 Stat. 343); or

17 (2) any other restriction will be imposed pursu-  
18 ant to Federal Aviation Administration Flight Data  
19 Center Notice to Airmen 4/3621 (or any successor  
20 notice to airmen).

21 **SEC. 507. PART 91 REVIEW, REFORM, AND STREAMLINING.**

22 (a) ESTABLISHMENT OF TASK FORCE.—Not later  
23 than 90 days after the date of enactment of this Act, the  
24 Administrator of the Federal Aviation Administration  
25 shall establish a task force comprised of representatives

1 of the general aviation industry who regularly perform  
2 part 91 operations, labor unions (including those rep-  
3 resenting FAA aviation safety inspectors and FAA avia-  
4 tion safety engineers), manufacturers, and the Govern-  
5 ment to—

6           (1) conduct an assessment of the FAA over-  
7           sight and authorization processes and requirements  
8           for aircraft under part 91; and

9           (2) make recommendations to streamline the  
10          applicable authorization and approval processes, im-  
11          prove safety, and reduce regulatory cost burdens and  
12          delays for the FAA and aircraft owners and opera-  
13          tors who operate pursuant to part 91.

14          (b) CONTENTS.—In conducting the assessment and  
15          making recommendations under subsection (a), the task  
16          force shall consider—

17               (1) process reforms and improvements to allow  
18               the FAA to review and approve applications in a fair  
19               and timely fashion;

20               (2) the appropriateness of requiring an author-  
21               ization for each experimental aircraft rather than  
22               using a broader all makes and models approach;

23               (3) ways to improve the timely response to let-  
24               ters of authorization applications for aircraft owners  
25               and operators who operate pursuant to part 91, in-

1 including setting deadlines and granting temporary or  
2 automatic authorizations if deadlines are missed by  
3 the FAA;

4 (4) methods for enhancing the effective use of  
5 delegation systems;

6 (5) methods for training the FAA's field office  
7 employees in risk-based and safety management sys-  
8 tem oversight; and

9 (6) such other matters related to streamlining  
10 part 91 authorization and approval processes as the  
11 task force considers appropriate.

12 (c) REPORT TO CONGRESS.—

13 (1) IN GENERAL.—Not later than 1 year after  
14 the date of enactment of this Act, the Administrator  
15 shall submit to the Committee on Transportation  
16 and Infrastructure of the House of Representatives  
17 and the Committee on Commerce, Science, and  
18 Transportation of the Senate a report on the results  
19 of the task force's assessment.

20 (2) CONTENTS.—The report shall include an  
21 explanation of how the Administrator will—

22 (A) implement the recommendations of the  
23 task force;

24 (B) measure progress in implementing the  
25 recommendations; and

1 (C) measure the effectiveness of the imple-  
2 mented recommendations.

3 (d) IMPLEMENTATION OF RECOMMENDATIONS.—Not  
4 later than 18 months after the date of enactment of this  
5 Act, the Administrator shall implement the recommenda-  
6 tions made under this section.

7 (e) DEFINITIONS.—In this section, the following defi-  
8 nitions apply:

9 (1) FAA.—The term “FAA” means the Fed-  
10 eral Aviation Administration.

11 (2) PART 91.—The term “part 91” means part  
12 91 of title 14, Code of Federal Regulations.

13 (f) APPLICABLE LAW.—Public Law 92–463 shall not  
14 apply to the task force.

15 (g) SUNSET.—The task force shall terminate on the  
16 day the Administrator submits the report required under  
17 subsection (e).

18 **SEC. 508. AIRCRAFT REGISTRATION.**

19 Not later than 180 days after the date of enactment  
20 of this Act, the Administrator of the Federal Aviation Ad-  
21 ministration shall initiate a rulemaking to increase the du-  
22 ration of aircraft registrations for noncommercial general  
23 aviation aircraft to 10 years.

1 **SEC. 509. AIR TRANSPORTATION OF LITHIUM CELLS AND**  
2 **BATTERIES.**

3 (a) COOPERATIVE EFFORTS TO ENSURE COMPLI-  
4 ANCE WITH SAFETY REGULATIONS.—

5 (1) IN GENERAL.—The Secretary of Transpor-  
6 tation, in coordination with appropriate Federal  
7 agencies, shall carry out cooperative efforts to en-  
8 sure that shippers who offer lithium ion and lithium  
9 metal batteries for air transport to or from the  
10 United States comply with U.S. Hazardous Mate-  
11 rials Regulations and ICAO Technical Instructions.

12 (2) COOPERATIVE EFFORTS.—The cooperative  
13 efforts the Secretary shall carry out pursuant to  
14 paragraph (1) include the following:

15 (A) Encouraging training programs at lo-  
16 cations outside the United States from which  
17 substantial cargo shipments of lithium ion or  
18 lithium metal batteries originate for manufac-  
19 turers, freight forwarders, and other shippers  
20 and potential shippers of lithium ion and lith-  
21 ium metal batteries.

22 (B) Working with Federal, regional, and  
23 international transportation agencies to ensure  
24 enforcement of U.S. Hazardous Materials Reg-  
25 ulations and ICAO Technical Instructions with  
26 respect to shippers who offer noncompliant

1 shipments of lithium ion and lithium metal bat-  
2 teries.

3 (C) Sharing information, as appropriate,  
4 with Federal, regional, and international trans-  
5 portation agencies regarding noncompliant ship-  
6 ments.

7 (D) Pursuing a joint effort with the inter-  
8 national aviation community to develop a proc-  
9 ess to obtain assurances that appropriate en-  
10 forcement actions are taken to reduce the likeli-  
11 hood of noncompliant shipments, especially with  
12 respect to jurisdictions in which enforcement  
13 activities historically have been limited.

14 (E) Providing information in brochures  
15 and on the internet in appropriate foreign lan-  
16 guages and dialects that describes the actions  
17 required to comply with U.S. Hazardous Mate-  
18 rials Regulations and ICAO Technical Instruc-  
19 tions.

20 (F) Developing joint efforts with the inter-  
21 national aviation community to promote a bet-  
22 ter understanding of the requirements of and  
23 methods of compliance with U.S. Hazardous  
24 Materials Regulations and ICAO Technical In-  
25 structions.

1           (3) REPORTING.—Not later than 120 days after  
2           the date of enactment of this Act, and annually  
3           thereafter for 2 years, the Secretary shall submit to  
4           the Committee on Transportation and Infrastructure  
5           of the House of Representatives and the Committee  
6           on Commerce, Science, and Transportation of the  
7           Senate a report on compliance with the policy set  
8           forth in subsection (e) and the cooperative efforts  
9           carried out, or planned to be carried out, under this  
10          subsection.

11          (b) LITHIUM BATTERY AIR SAFETY ADVISORY COM-  
12          MITTEE.—

13           (1) ESTABLISHMENT.—Not later than 60 days  
14           after the date of enactment of this Act, the Sec-  
15           retary shall establish, in accordance with the re-  
16           quirements of the Federal Advisory Committee Act  
17           (5 U.S.C. App.), a lithium ion and lithium metal  
18           battery air safety advisory committee (in this sub-  
19           section referred to as the “Committee”).

20           (2) DUTIES.—The Committee shall—

21           (A) facilitate communication between man-  
22           ufacturers of lithium ion and lithium metal cells  
23           and batteries, manufacturers of products incor-  
24           porating both large and small lithium ion and  
25           lithium metal batteries, air carriers, and the

1 Federal Government regarding the safe air  
2 transportation of lithium ion and lithium metal  
3 cells and batteries and the effectiveness and  
4 economic and social impacts of the regulation of  
5 such transportation;

6 (B) provide the Secretary, the Federal  
7 Aviation Administration, and the Pipeline and  
8 Hazardous Materials Safety Administration  
9 with timely information about new lithium ion  
10 and lithium metal battery technology and trans-  
11 portation safety practices and methodologies;

12 (C) provide a forum for the Secretary to  
13 provide information on and to discuss the ac-  
14 tivities of the Department of Transportation re-  
15 lating to lithium ion and lithium metal battery  
16 transportation safety, the policies underlying  
17 the activities, and positions to be advocated in  
18 international forums;

19 (D) provide a forum for the Secretary to  
20 provide information and receive advice on—

21 (i) activities carried out throughout  
22 the world to communicate and enforce rel-  
23 evant United States regulations and the  
24 ICAO Technical Instructions; and

25 (ii) the effectiveness of the activities;



1           (E) provide advice and recommendations to  
2           the Secretary with respect to lithium ion and  
3           lithium metal battery air transportation safety,  
4           including how best to implement activities to in-  
5           crease awareness of relevant requirements and  
6           their importance to travelers and shippers; and

7           (F) review methods to decrease the risk  
8           posed by air shipment of undeclared hazardous  
9           materials and efforts to educate those who pre-  
10          pare and offer hazardous materials for ship-  
11          ment via air transport.

12          (3) MEMBERSHIP.—The Committee shall be  
13          composed of the following members:

14               (A) Individuals appointed by the Secretary  
15               to represent—

16                       (i) large volume manufacturers of lith-  
17                       ium ion and lithium metal cells and bat-  
18                       teries;

19                       (ii) domestic manufacturers of lithium  
20                       ion and lithium metal batteries or battery  
21                       packs;

22                       (iii) manufacturers of consumer prod-  
23                       ucts powered by lithium ion and lithium  
24                       metal batteries;

1 (iv) manufacturers of vehicles powered  
2 by lithium ion and lithium metal batteries;

3 (v) marketers of products powered by  
4 lithium ion and lithium metal batteries;

5 (vi) cargo air service providers based  
6 in the United States;

7 (vii) passenger air service providers  
8 based in the United States;

9 (viii) pilots and employees of air serv-  
10 ice providers described in clauses (vi) and  
11 (vii);

12 (ix) shippers of lithium ion and lith-  
13 ium metal batteries for air transportation;

14 (x) manufacturers of battery-powered  
15 medical devices or batteries used in med-  
16 ical devices; and

17 (xi) employees of the Department of  
18 Transportation, including employees of the  
19 Federal Aviation Administration and the  
20 Pipeline and Hazardous Materials Safety  
21 Administration.

22 (B) Representatives of such other Govern-  
23 ment departments and agencies as the Sec-  
24 retary determines appropriate.

1           (C) Any other individuals the Secretary de-  
2 termines are appropriate to comply with Fed-  
3 eral law.

4           (4) REPORT.—

5           (A) IN GENERAL.—Not later than 180  
6 days after the establishment of the Committee,  
7 the Committee shall submit to the Secretary,  
8 the Committee on Transportation and Infra-  
9 structure of the House of Representatives, and  
10 the Committee on Commerce, Science, and  
11 Transportation of the Senate a report that—

12                   (i) describes and evaluates the steps  
13 being taken in the private sector and by  
14 international regulatory authorities to im-  
15 plement and enforce requirements relating  
16 to the safe transportation by air of bulk  
17 shipments of lithium ion cells and bat-  
18 teries; and

19                   (ii) identifies any areas of enforce-  
20 ment or regulatory requirements for which  
21 there is consensus that greater attention is  
22 needed.

23           (B) INDEPENDENT STATEMENTS.—Each  
24 member of the Committee shall be provided an  
25 opportunity to submit an independent state-

1           ment of views with the report submitted pursu-  
2           ant to subparagraph (A).

3           (5) MEETINGS.—

4                 (A) IN GENERAL.—The Committee shall  
5           meet at the direction of the Secretary and at  
6           least twice a year.

7                 (B) PREPARATION FOR ICAO MEETINGS.—  
8           Notwithstanding subparagraph (A), the Sec-  
9           retary shall convene a meeting of the Com-  
10          mittee in connection with and in advance of  
11          each meeting of the International Civil Aviation  
12          Organization, or any of its panels or working  
13          groups, addressing the safety of air transpor-  
14          tation of lithium ion and lithium metal batteries  
15          to brief Committee members on positions to be  
16          taken by the United States at such meeting and  
17          provide Committee members a meaningful op-  
18          portunity to comment.

19                (6) TERMINATION.—The Committee shall ter-  
20          minate on the date that is 6 years after the date on  
21          which the Committee is established.

22                (7) TERMINATION OF FUTURE OF AVIATION AD-  
23          VISORY COMMITTEE.—The Future of Aviation Advi-  
24          sory Committee shall terminate on the date on which

1 the lithium ion battery air safety advisory committee  
2 is established.

3 (c) MEDICAL DEVICE BATTERIES.—

4 (1) LIMITED EXCEPTIONS TO RESTRICTIONS ON  
5 AIR TRANSPORTATION OF MEDICAL DEVICE BAT-  
6 TERIES.—The Secretary shall issue limited excep-  
7 tions to the restrictions on transportation of lithium  
8 ion and lithium metal batteries to allow the ship-  
9 ment on a passenger aircraft of not more than 2 re-  
10 placement batteries specifically used for a medical  
11 device if—

12 (A) the intended destination of the bat-  
13 teries is not serviced daily by cargo aircraft if  
14 a battery is required for medically necessary  
15 care; and

16 (B) with regard to a shipper of lithium ion  
17 or lithium metal batteries for medical devices  
18 that cannot comply with a charge limitation in  
19 place at the time, each battery is—

20 (i) individually packed in an inner  
21 packaging that completely encloses the bat-  
22 tery;

23 (ii) placed in a rigid outer packaging;  
24 and

1 (iii) protected to prevent a short cir-  
2 cuit.

3 (2) MEDICAL DEVICE DEFINED.—In this sub-  
4 section, the term “medical device” means an instru-  
5 ment, apparatus, implement, machine, contrivance,  
6 implant, or in vitro reagent, including any compo-  
7 nent, part, or accessory thereof, which is intended  
8 for use in the diagnosis of disease or other condi-  
9 tions, or in the cure, mitigation, treatment, or pre-  
10 vention of disease, in a person.

11 (3) SAVINGS CLAUSE.—Nothing in this sub-  
12 section may be construed as expanding or restricting  
13 any authority of the Secretary under section 828 of  
14 the FAA Modernization and Reform Act of 2012  
15 (49 U.S.C. 44701 note).

16 (d) PACKAGING IMPROVEMENTS.—Not later than  
17 180 days after the date of enactment of this Act, the Sec-  
18 retary, in consultation with interested stakeholders, shall  
19 submit to the Committee on Transportation and Infra-  
20 structure of the House of Representatives and the Com-  
21 mittee on Commerce, Science, and Transportation of the  
22 Senate an evaluation of current practices for the pack-  
23 aging of lithium ion batteries and cells for air transpor-  
24 tation, including recommendations, if any, to improve the

1 packaging of such batteries and cells for air transportation  
2 in a safe, efficient, and cost-effective manner.

3 (e) DEPARTMENT OF TRANSPORTATION POLICY ON  
4 INTERNATIONAL REPRESENTATION.—It shall be the pol-  
5 icy of the Department of Transportation to support the  
6 participation of industry in all panels and working groups  
7 of the Dangerous Goods Panel of the International Civil  
8 Aviation Organization and any other international test or  
9 standard setting organization that considers proposals on  
10 the safety or transportation of lithium ion and lithium  
11 metal batteries in which the United States participates.

12 (f) HARMONIZATION WITH ICAO TECHNICAL IN-  
13 STRUCTIONS.—Pursuant to section 828 of the FAA Mod-  
14 ernization and Reform Act of 2012 (49 U.S.C. 44701  
15 note), not later than 30 days after the date of enactment  
16 of this Act, the Secretary shall conform United States reg-  
17 ulations on the air transport of lithium cells and batteries  
18 with the lithium cells and batteries requirements in the  
19 2015–2016 edition of the ICAO Technical Instructions  
20 (including all addenda), including the revised standards  
21 adopted by the International Civil Aviation Organization  
22 that became effective on April 1, 2016.

23 (g) DEFINITIONS.—In this section, the following defi-  
24 nitions apply:

1           (1) ICAO TECHNICAL INSTRUCTIONS.—The  
2 term “ICAO Technical Instructions” has the mean-  
3 ing given that term in section 828(c) of the FAA  
4 Modernization and Reform Act of 2012 (49 U.S.C.  
5 44701 note).

6           (2) U.S. HAZARDOUS MATERIALS REGULA-  
7 TIONS.—The term “U.S. Hazardous Materials Regu-  
8 lations” means the regulations in parts 100 through  
9 177 of title 49, Code of Federal Regulations (includ-  
10 ing amendments adopted after the date of enactment  
11 of this Act).

12 **SEC. 510. REMOTE TOWER PILOT PROGRAM FOR RURAL**  
13 **AND SMALL COMMUNITIES.**

14           (a) IN GENERAL.—Not later than 180 days after the  
15 date of enactment of this Act, the Secretary of Transpor-  
16 tation shall establish a pilot program under which, upon  
17 approval of an application submitted by an operator of a  
18 public-use airport, the Secretary shall install and operate  
19 at the airport a remote air traffic control tower in order  
20 to assess the operational benefits of remote air traffic con-  
21 trol towers.

22           (b) APPLICATIONS.—The operator of an airport seek-  
23 ing to participate in the pilot program shall submit to the  
24 Secretary for approval an application that is in such form



1 and contains such information as the Secretary may re-  
2 quire.

3 (c) SELECTION CRITERIA.—

4 (1) SELECTION OF AIRPORTS.—From among  
5 the applications submitted under subsection (b), the  
6 Secretary, after consultation with representatives of  
7 labor organizations representing operators and em-  
8 ployees of the air traffic control system, shall select  
9 for participation in the pilot program 7 airports as  
10 follows:

11 (A) 1 nonhub, primary airport.

12 (B) 3 nonprimary airports without existing  
13 air traffic control towers.

14 (C) 2 airports with air traffic control tow-  
15 ers participating in a program established  
16 under section 47124 of title 49, United States  
17 Code.

18 (D) 1 airport selected at the discretion of  
19 the Secretary.

20 (2) PRIORITY SELECTION.—In selecting from  
21 among the applications submitted under subsection  
22 (b), the Secretary shall give priority to applicants  
23 that can best demonstrate the capabilities and po-  
24 tential of remote air traffic control towers, including

1 applicants proposing to operate multiple remote air  
2 traffic control towers from a single facility.

3 (3) AUTHORITY TO REALLOCATE AIRPORT SE-  
4 LECTION.—If the Secretary receives an insufficient  
5 number of applications, the Secretary may reallocate  
6 the distribution of airport sites described in para-  
7 graph (1).

8 (d) SAFETY RISK MANAGEMENT PANEL.—

9 (1) SAFETY RISK MANAGEMENT PANEL MEET-  
10 ING.—Prior to the operational use of a remote air  
11 traffic control tower, the Secretary shall convene a  
12 safety risk management panel for the tower to ad-  
13 dress any safety issues with respect to the tower.

14 (2) SAFETY RISK MANAGEMENT PANEL BEST  
15 PRACTICES.—The safety risk management panels  
16 shall be created and utilized in a manner similar to  
17 that of safety risk management panels previously es-  
18 tablished for remote air traffic control towers, taking  
19 into account—

20 (A) best practices that have been devel-  
21 oped; and

22 (B) operational data from remote air traf-  
23 fic control towers located in the United States.

1 (e) AIRPORT IMPROVEMENT PROGRAM.—The pilot  
2 program shall be eligible for airport improvement funding  
3 under chapter 471 of title 49, United States Code.

4 (f) POSSIBLE EXPANSION OF PROGRAM.—Not later  
5 than 30 days after the date that the first remote air traffic  
6 control tower is commissioned, the Administrator of the  
7 Federal Aviation Administration shall establish a repeat-  
8 able process by which future certified remote air traffic  
9 control tower systems may be commissioned at additional  
10 airports.

11 (g) DEFINITIONS.—

12 (1) IN GENERAL.—In this section, the following  
13 definitions apply:

14 (A) AIR NAVIGATION FACILITY.—The term  
15 “air navigation facility” has the meaning given  
16 that term in section 40102(a) of title 49,  
17 United States Code.

18 (B) REMOTE AIR TRAFFIC CONTROL  
19 TOWER.—The term “remote air traffic control  
20 tower” means a remotely operated air naviga-  
21 tion facility, including all necessary system com-  
22 ponents, that provides the functions and capa-  
23 bilities of an air traffic control tower.

24 (2) APPLICABILITY OF OTHER DEFINITIONS.—  
25 The terms “nonhub airport”, “primary airport”, and

1 “public-use airport” have the meanings given such  
2 terms in section 47102 of title 49, United States  
3 Code.

4 (h) SUNSET.—The pilot program shall terminate on  
5 the date that is 3 years after the date of enactment of  
6 this Act.

7 **SEC. 511. ENSURING FAA READINESS TO PROVIDE SEAM-**  
8 **LESS OCEANIC OPERATIONS.**

9 Not later than September 30, 2018, the Secretary of  
10 Transportation shall make a final investment decision for  
11 the implementation of a reduced oceanic separation capa-  
12 bility that, by March 31, 2019, shall be operational and  
13 in use providing capabilities at least equivalent to that of-  
14 fered in neighboring airspace, and such service shall be  
15 provided in the same manner as terrestrial surveillance is  
16 provided.

17 **SEC. 512. SENSE OF CONGRESS REGARDING WOMEN IN**  
18 **AVIATION.**

19 It is the sense of Congress that the aviation industry  
20 should explore all opportunities, including pilot training,  
21 science, technology, engineering, and mathematics edu-  
22 cation, and mentorship programs, to encourage and sup-  
23 port female students and aviators to pursue a career in  
24 aviation.

1 **SEC. 513. OBSTRUCTION EVALUATION AERONAUTICAL**  
2 **STUDIES.**

3 The Secretary of Transportation may implement the  
4 policy set forth in the notice of proposed policy titled “Pro-  
5 posal to Consider the Impact of One Engine Inoperative  
6 Procedures in Obstruction Evaluation Aeronautical Stud-  
7 ies” published by the Department of Transportation on  
8 April 28, 2014 (79 Fed. Reg. 23300), only if the policy  
9 is adopted pursuant to a notice and comment rulemaking  
10 and, for purposes of Executive Order 12866 (5 U.S.C. 601  
11 note; relating to regulatory planning and review), is treat-  
12 ed as a significant regulatory action within the scope of  
13 section 3(f)(1) of such Order.

14 **SEC. 514. AIRCRAFT LEASING.**

15 Section 44112(b) of title 49, United States Code, is  
16 amended—

17 (1) by striking “on land or water”; and

18 (2) by inserting “operational” before “control”.

19 **SEC. 515. REPORT ON OBSOLETE TEST EQUIPMENT.**

20 (a) REPORT.—Not later than 180 days after the date  
21 of enactment of this Act, the Administrator of the Federal  
22 Aviation Administration shall submit to the Committee on  
23 Transportation and Infrastructure of the House of Rep-  
24 resentatives and the Committee on Commerce, Science,  
25 and Transportation of the Senate a report on the National

1 Test Equipment Program of the Federal Aviation Admin-  
2 istration (in this section referred to as the “Program”).

3 (b) CONTENTS.—The report shall include—

4 (1) a list of all known outstanding requests for  
5 test equipment, cataloged by type and location,  
6 under the Program;

7 (2) a description of the current method under  
8 the Program of ensuring calibrated equipment is in  
9 place for utilization;

10 (3) a plan by the Administrator for appropriate  
11 inventory of such equipment;

12 (4) the Administrator’s recommendations for  
13 increasing multifunctionality in future test equip-  
14 ment and all known and foreseeable manufacturer  
15 technological advances; and

16 (5) a plan to replace, as appropriate, obsolete  
17 test equipment throughout the service areas.

18 **SEC. 516. PILOTS SHARING FLIGHT EXPENSES WITH PAS-**

19 **SENGERS.**

20 (a) GUIDANCE.—

21 (1) IN GENERAL.—Not later than 90 days after  
22 the date of enactment of this Act, the Administrator  
23 of the Federal Aviation Administration shall make  
24 publicly available, in a clear and concise format, ad-  
25 visory guidance that describes how a pilot may share

1 flight expenses with passengers in a manner con-  
2 sistent with Federal law, including regulations.

3 (2) EXAMPLES INCLUDED.—The guidance shall  
4 include examples of—

5 (A) flights for which pilots and passengers  
6 may share expenses;

7 (B) flights for which pilots and passengers  
8 may not share expenses;

9 (C) the methods of communication that pi-  
10 lots and passengers may use to arrange flights  
11 for which expenses are shared; and

12 (D) the methods of communication that pi-  
13 lots and passengers may not use to arrange  
14 flights for which expenses are shared.

15 (b) REPORT.—

16 (1) IN GENERAL.—Not later than 180 days  
17 after the date on which guidance is made publicly  
18 available under subsection (a), the Comptroller Gen-  
19 eral of the United States shall submit to the Com-  
20 mittee on Transportation and Infrastructure of the  
21 House of Representatives and the Committee on  
22 Commerce, Science, and Transportation of the Sen-  
23 ate a report analyzing Federal policy with respect to  
24 pilots sharing flight expenses with passengers.

1           (2) EVALUATIONS INCLUDED.—The report sub-  
2           mitted under paragraph (1) shall include an evalua-  
3           tion of—

4                   (A) the rationale for such Federal policy;

5                   (B) safety and other concerns related to  
6           pilots sharing flight expenses with passengers;  
7           and

8                   (C) benefits related to pilots sharing flight  
9           expenses with passengers.

10 **SEC. 517. AVIATION RULEMAKING COMMITTEE FOR PART**  
11 **135 PILOT REST AND DUTY RULES.**

12           (a) IN GENERAL.—Not later than 180 days after the  
13           date of enactment of this Act, the Administrator of the  
14           Federal Aviation Administration shall convene an aviation  
15           rulemaking committee to review, and develop findings and  
16           recommendations regarding, pilot rest and duty rules  
17           under part 135 of title 14, Code of Federal Regulations.

18           (b) DUTIES.—The Administrator shall—

19                   (1) not later than 2 years after the date of en-  
20           actment of this Act, submit to the Committee on  
21           Transportation and Infrastructure of the House of  
22           Representatives and the Committee on Commerce,  
23           Science, and Transportation of the Senate a report  
24           based on the findings of the aviation rulemaking  
25           committee; and



1           (2) not later than 1 year after the date of sub-  
2           mission of the report under paragraph (1), issue a  
3           notice of proposed rulemaking based on any con-  
4           sensus recommendations reached by the aviation  
5           rulemaking committee.

6           (c) COMPOSITION.—The aviation rulemaking com-  
7           mittee shall consist of members appointed by the Adminis-  
8           trator, including—

9           (1) representatives of industry;

10          (2) representatives of aviation labor organiza-  
11          tions, including collective bargaining units rep-  
12          resenting pilots who are covered by part 135 of title  
13          14, Code of Federal Regulations, and subpart K of  
14          part 91 of such title; and

15          (3) aviation safety experts with specific knowl-  
16          edge of flight crewmember education and training  
17          requirements under part 135 of such title.

18          (d) CONSIDERATIONS.—The Administrator shall di-  
19          rect the aviation rulemaking committee to consider—

20          (1) recommendations of prior part 135 rule-  
21          making committees;

22          (2) accommodations necessary for small busi-  
23          nesses;

24          (3) scientific data derived from aviation-related  
25          fatigue and sleep research;

1 (4) data gathered from aviation safety reporting  
2 programs;

3 (5) the need to accommodate the diversity of  
4 operations conducted under part 135; and

5 (6) other items, as appropriate.

6 **SEC. 518. METROPOLITAN WASHINGTON AIRPORTS AU-**  
7 **THORITY.**

8 (a) FINDINGS.—Congress finds that—

9 (1) the Metropolitan Washington Airports Au-  
10 thority (in this section referred to as “MWAA”),  
11 which operates Ronald Reagan Washington National  
12 Airport and Dulles International Airport by lease  
13 with the Department of Transportation, has rou-  
14 tinely performed poorly on audits conducted by the  
15 Inspector General of the Department of Transpor-  
16 tation;

17 (2) the responsible stewardship of taxpayer-  
18 owned assets by MWAA is of great concern to Con-  
19 gress;

20 (3) a March 20, 2015, audit conducted by the  
21 Inspector General titled “MWAA’s Office of Audit  
22 Does Not Have an Adequate Quality Assurance and  
23 Improvement Program” (Report No. ZA–2015–035)  
24 found that MWAA’s quality assurance and improve-

1 ment program did not conform with the standards  
2 of the Institute of Internal Auditors; and

3 (4) the Inspector General's audit made 7 rec-  
4 ommendations to strengthen MWAA governance, its  
5 Office of Audit, and its quality assurance and im-  
6 provement program.

7 (b) IMPLEMENTING AUDIT RECOMMENDATIONS.—

8 (1) STUDY.—The Inspector General of the De-  
9 partment of Transportation shall conduct a study on  
10 MWAA's progress in implementing the recommenda-  
11 tions of the audit referred to in subsection (a).

12 (2) REPORT.—The Inspector General shall sub-  
13 mit to the Committee on Transportation and Infra-  
14 structure of the House of Representatives and the  
15 Committee on Commerce, Science, and Transpor-  
16 tation of the Senate a report on the study, including  
17 the Inspector General's findings, conclusions, and  
18 recommendations for strengthening and improving  
19 MWAA's Office of Audit.

20 **SEC. 519. TERMINAL AERODROME FORECAST.**

21 (a) IN GENERAL.—The Administrator of the Federal  
22 Aviation Administration shall permit a covered air carrier  
23 to operate to or from a location in a noncontiguous State  
24 without a Terminal Aerodrome Forecast or Meteorological  
25 Aerodrome Report if—

1           (1) such location is determined to be under vis-  
2           ual meteorological conditions;

3           (2) a current Area Forecast, supplemented by  
4           other local weather observations or reports, is avail-  
5           able; and

6           (3) an alternate airport that has an available  
7           Terminal Aerodrome Forecast and weather report is  
8           specified.

9           (b) PROCEDURES.—A covered air carrier shall—

10           (1) have approved procedures for dispatch or  
11           release and enroute weather evaluation; and

12           (2) operate under instrument flight rules  
13           enroute to the destination.

14           (c) COVERED AIR CARRIER DEFINED.—In this sec-  
15           tion, the term “covered air carrier” means an air carrier  
16           operating in a noncontiguous State under part 121 of title  
17           14, Code of Federal Regulations.

18           **SEC. 520. FEDERAL AVIATION ADMINISTRATION EMPLOY-**  
19           **EES STATIONED ON GUAM.**

20           It is the sense of Congress that—

21           (1) the Administrator of the Federal Aviation  
22           Administration and the Secretary of Defense should  
23           seek an agreement that would enable Federal Avia-  
24           tion Administration employees stationed on Guam to

1 have access to Department of Defense hospitals,  
2 commissaries, and exchanges on Guam;

3 (2) access to these facilities is important to en-  
4 sure the health and well-being of Federal Aviation  
5 Administration employees and their families; and

6 (3) in exchange for this access, the Federal  
7 Aviation Administration should make payments to  
8 cover the applicable administrative costs incurred by  
9 the Department of Defense in carrying out the  
10 agreement.

11 **SEC. 521. TECHNICAL CORRECTIONS.**

12 (a) AIRPORT CAPACITY ENHANCEMENT PROJECTS  
13 AT CONGESTED AIRPORTS.—Section 40104(c) of title 49,  
14 United States Code, is amended by striking “section  
15 47176” and inserting “section 47175”.

16 (b) PASSENGER FACILITY CHARGES.—Section  
17 40117(a)(5) of title 49, United States Code, is amended  
18 by striking “charge or charge” and inserting “charge”.

19 (c) OVERFLIGHTS OF NATIONAL PARKS.—Section  
20 40128(a)(3) of title 49, United States Code, is amended  
21 by striking “under part 91 of the title 14,” and inserting  
22 “under part 91 of title 14,”.

23 (d) PLANS TO ADDRESS NEEDS OF FAMILIES OF  
24 PASSENGERS INVOLVED IN FOREIGN AIR CARRIER ACCI-  
25 DENTS.—Section 41313(c)(16) of title 49, United States

1 Code, is amended by striking “An assurance that the for-  
2 eign air carrier” and inserting “An assurance that”.

3 (e) OPERATIONS OF CARRIERS.—The analysis for  
4 chapter 417 of title 49, United States Code, is amended  
5 by striking the item relating to section 41718 and insert-  
6 ing the following:

“41718. Special rules for Ronald Reagan Washington National Airport.”.

7 (f) SCHEDULES FOR CERTAIN TRANSPORTATION OF  
8 MAIL.—Section 41902(a) of title 49, United States Code,  
9 is amended by striking “section 41906” and inserting  
10 “section 41905”.

11 (g) WEIGHING MAIL.—Section 41907 of title 49,  
12 United States Code, is amended by striking “and -adminis-  
13 trative” and inserting “and administrative”.

14 (h) STRUCTURES INTERFERING WITH AIR COM-  
15 MERCE OR NATIONAL SECURITY.—Section 44718(b)(1) of  
16 title 49, United States Code, is amended—

17 (1) in the matter preceding subparagraph (A)  
18 by striking “air navigation facilities and equipment”  
19 and inserting “air or space navigation facilities and  
20 equipment”; and

21 (2) in subparagraph (A)—

22 (A) in clause (v) by striking “and” at the  
23 end;

24 (B) by redesignating clause (vi) as clause  
25 (vii); and

1 (C) by inserting after clause (v) the fol-  
2 lowing:

3 “(vi) the impact on launch and re-  
4 entry for launch and reentry vehicles arriv-  
5 ing or departing from a launch site or re-  
6 entry site licensed by the Secretary of  
7 Transportation; and”.

8 (i) FEES INVOLVING AIRCRAFT NOT PROVIDING AIR  
9 TRANSPORTATION.—Section 45302 of title 49, United  
10 States Code, is amended by striking “44703(f)(2)” each  
11 place it appears and inserting “44703(g)(2)”.

12 (j) CHAPTER 465.—The analysis for chapter 465 of  
13 title 49, United States Code, is amended by striking the  
14 following:

“46503. Repealed.”.

15 (k) SOLICITATION AND CONSIDERATION OF COM-  
16 MENTS.—Section 47171(l) of title 49, United States Code,  
17 is amended by striking “4371” and inserting “4321”.

18 (l) ADJUSTMENTS TO COMPENSATION FOR SIGNIFI-  
19 CANTLY INCREASED COSTS.—Section 426 of the FAA  
20 Modernization and Reform Act of 2012 is amended—

21 (1) in subsection (a) (49 U.S.C. 41737 note) by  
22 striking “Secretary” and inserting “Secretary of  
23 Transportation”; and

1           (2) in subsection (c) (49 U.S.C. 41731 note) by  
2           striking “the Secretary may waive” and inserting  
3           “the Secretary of Transportation may waive”.

4           (m) AIRCRAFT DEPARTURE QUEUE MANAGEMENT  
5 PILOT PROGRAM.—Section 507(a) of the FAA Moderniza-  
6 tion and Reform Act of 2012 (49 U.S.C. 44505 note) is  
7 amended by striking “section 48101(a)” and inserting  
8 “section 48101(a) of title 49, United States Code,”.

9 **SEC. 522. APPLICATION OF VETERANS’ PREFERENCE TO**  
10 **FEDERAL AVIATION ADMINISTRATION PER-**  
11 **SONNEL MANAGEMENT SYSTEM.**

12           Section 40122(g)(2)(B) of title 49, United States  
13 Code, is amended—

14           (1) by inserting “3304(f),” before “3308-  
15 3320”; and

16           (2) by inserting “3330a, 3330b, 3330c, and  
17 3330d,” before “relating”.

18 **SEC. 523. PUBLIC AIRCRAFT ELIGIBLE FOR LOGGING**  
19 **FLIGHT TIMES.**

20           The Administrator of the Federal Aviation Adminis-  
21 tration shall issue regulations modifying section  
22 61.51(j)(4) of title 14, Code of Federal Regulations, so  
23 as to include aircraft under the direct operational control  
24 of forestry and fire protection agencies as public aircraft  
25 eligible for logging flight times.



1 **SEC. 524. FEDERAL AVIATION ADMINISTRATION WORK-**  
2 **FORCE REVIEW.**

3 (a) IN GENERAL.—Not later than 120 days after the  
4 date of enactment of this Act, the Comptroller General  
5 of the United States shall conduct a review to assess the  
6 workforce and training needs of the Federal Aviation Ad-  
7 ministration (in this section referred to as the “FAA”)  
8 in the anticipated budgetary environment.

9 (b) CONTENTS.—In conducting the review, the  
10 Comptroller General shall—

11 (1) identify the long-term workforce and train-  
12 ing needs of the FAA workforce;

13 (2) assess the impact of automation, digitaliza-  
14 tion, and artificial intelligence on the FAA work-  
15 force;

16 (3) analyze the skills and qualifications required  
17 of the FAA workforce for successful performance in  
18 the current and future projected aviation environ-  
19 ment;

20 (4) review current performance incentive poli-  
21 cies of the FAA, including awards for performance;

22 (5) analyze ways in which the FAA can work  
23 with industry and labor, including labor groups rep-  
24 resenting the FAA workforce, to establish knowl-  
25 edge-sharing opportunities between the FAA and the

1 aviation industry regarding new equipment and sys-  
2 tems, best practices, and other areas of interest; and

3 (6) develop recommendations on the most effec-  
4 tive qualifications, training programs (including e-  
5 learning training), and performance incentive ap-  
6 proaches to address the needs of the future pro-  
7 jected aviation regulatory system in the anticipated  
8 budgetary environment.

9 (c) REPORT.—Not later than 270 days after the date  
10 of enactment of this Act, the Comptroller General shall  
11 submit to the Committee on Transportation and Infra-  
12 structure of the House of Representatives and the Com-  
13 mittee on Commerce, Science, and Transportation of the  
14 Senate a report on the results of the review.

15 **SEC. 525. STATE TAXATION.**

16 Section 40116(d)(2)(A) of title 49, United States  
17 Code, is amended by adding at the end the following:

18 “(v) except as otherwise provided under section  
19 47133, levy or collect a tax, fee, or charge, first tak-  
20 ing effect after the date of enactment of this clause,  
21 upon any business located at a commercial service  
22 airport or operating as a permittee of such an air-  
23 port that is not generally imposed on sales or serv-  
24 ices by that State, political subdivision, or authority

1 unless wholly utilized for airport or aeronautical pur-  
2 poses.”.

3 **SEC. 526. AVIATION AND AEROSPACE WORKFORCE OF THE**  
4 **FUTURE.**

5 (a) FINDINGS.—Congress finds that—

6 (1) in 2016, United States air carriers carried  
7 a record high number of passengers on domestic  
8 flights, 719 million passengers;

9 (2) the United States aerospace and defense in-  
10 dustry employed 1.7 million workers in 2015, or  
11 roughly 2 percent of the Nation’s total employment  
12 base;

13 (3) the average salary of an employee in the  
14 aerospace and defense industry is 44 percent above  
15 the national average;

16 (4) in 2015, the aerospace and defense industry  
17 contributed nearly \$202.4 billion in value added to  
18 the United States economy;

19 (5) an effective aviation industry relies on indi-  
20 viduals with unique skill sets, many of which can be  
21 directly obtained through career and technical edu-  
22 cation opportunities; and

23 (6) industry and the Federal Government have  
24 taken some actions to attract qualified individuals to

1 careers in aviation and aerospace and to retain  
2 qualified individuals in such careers.

3 (b) SENSE OF CONGRESS.—It is the sense of Con-  
4 gress that—

5 (1) public and private education institutions  
6 should make available to students and parents infor-  
7 mation on approved programs of study and career  
8 pathways, including career exploration, work-based  
9 learning opportunities, dual and concurrent enroll-  
10 ment opportunities, and guidance and advisement  
11 resources;

12 (2) public and private education institutions  
13 should partner with aviation and aerospace compa-  
14 nies to promote career paths available within the in-  
15 dustry and share information on the unique benefits  
16 and opportunities the career paths offer;

17 (3) aviation companies, including air carriers,  
18 manufacturers, commercial space companies, un-  
19 manned aircraft system companies, and repair sta-  
20 tions, should create opportunities, through appren-  
21 ticeships or other mechanisms, to attract young peo-  
22 ple to aviation and aerospace careers and to enable  
23 individuals to gain the critical skills needed to thrive  
24 in such professions; and

1           (4) the Federal Government should consider the  
2           needs of men and women interested in pursuing ca-  
3           reers in the aviation and aerospace industry, the  
4           long-term personnel needs of the aviation and aero-  
5           space industry, and the role of aviation in the  
6           United States economy in the creation and adminis-  
7           tration of educational and financial aid programs.

8   **SEC. 527. FUTURE AVIATION AND AEROSPACE WORKFORCE**  
9                                   **STUDY.**

10          (a) **IN GENERAL.**—Not later than 90 days after the  
11          date of enactment of this Act, the Comptroller General  
12          of the United States shall conduct a study—

13                 (1) to identify the factors influencing the supply  
14                 of individuals pursuing a career in the aviation or  
15                 aerospace industry; and

16                 (2) to identify best practices or programs to  
17                 incentivize, recruit, and retain young people in avia-  
18                 tion and aerospace professions.

19          (b) **CONSULTATION.**—The Comptroller General shall  
20          conduct the study in consultation with—

21                 (1) appropriate Federal agencies; and

22                 (2) the aviation and aerospace industry, institu-  
23                 tions of higher education, and labor stakeholders.

24          (c) **REPORT TO CONGRESS.**—Not later than 1 year  
25          after the date of enactment of this Act, the Comptroller

1 General shall submit to the Committee on Transportation  
2 and Infrastructure of the House of Representatives and  
3 the Committee on Commerce, Science, and Transportation  
4 of the Senate a report on the results of the study and  
5 related recommendations.

6 **SEC. 528. FAA LEADERSHIP ON CIVIL SUPERSONIC AIR-**  
7 **CRAFT.**

8 (a) IN GENERAL.—The Administrator of the Federal  
9 Aviation Administration shall exercise leadership in the  
10 creation of Federal and international policies, regulations,  
11 and standards relating to the certification and safe and  
12 efficient operation of civil supersonic aircraft.

13 (b) EXERCISE OF LEADERSHIP.—In carrying out  
14 subsection (a), the Administrator shall—

15 (1) consider the needs of the aerospace industry  
16 and other stakeholders when creating policies, regu-  
17 lations, and standards that enable the safe commer-  
18 cial deployment of civil supersonic aircraft tech-  
19 nology and the safe and efficient operation of civil  
20 supersonic aircraft; and

21 (2) obtain the input of aerospace industry  
22 stakeholders regarding—

23 (A) the appropriate regulatory framework  
24 and timeline for permitting the safe and effi-  
25 cient operation of civil supersonic aircraft with-

1 in United States airspace, including updating or  
2 modifying existing regulations on such oper-  
3 ation;

4 (B) issues related to standards and regula-  
5 tions for the type certification and safe oper-  
6 ation of civil supersonic aircraft, including noise  
7 certification, including—

8 (i) the operational differences between  
9 subsonic aircraft and supersonic aircraft;

10 (ii) costs and benefits associated with  
11 landing and takeoff noise requirements for  
12 civil supersonic aircraft, including impacts  
13 on aircraft emissions;

14 (iii) public and economic benefits of  
15 the operation of civil supersonic aircraft  
16 and associated aerospace industry activity;  
17 and

18 (iv) challenges relating to ensuring  
19 that standards and regulations aimed at  
20 relieving and protecting the public health  
21 and welfare from aircraft noise and sonic  
22 booms are economically reasonable, techno-  
23 logically practicable, and appropriate for  
24 civil supersonic aircraft; and

1           (C) other issues identified by the Adminis-  
2           trator or the aerospace industry that must be  
3           addressed to enable the safe commercial deploy-  
4           ment and safe and efficient operation of civil  
5           supersonic aircraft.

6           (c) INTERNATIONAL LEADERSHIP.—The Adminis-  
7           trator, in the appropriate international forums, shall take  
8           actions that—

9           (1) demonstrate global leadership under sub-  
10          section (a);

11          (2) address the needs of the aerospace industry  
12          identified under subsection (b); and

13          (3) protect the public health and welfare.

14          (d) REPORT TO CONGRESS.—Not later than 1 year  
15          after the date of enactment of this Act, the Administrator  
16          shall submit to the Committee on Transportation and In-  
17          frastructure of the House of Representatives and the Com-  
18          mittee on Commerce, Science, and Transportation of the  
19          Senate a report detailing—

20          (1) the Administrator’s actions to exercise lead-  
21          ership in the creation of Federal and international  
22          policies, regulations, and standards relating to the  
23          certification and safe and efficient operation of civil  
24          supersonic aircraft;



1           (2) planned, proposed, and anticipated actions  
2           to update or modify existing policies and regulations  
3           related to civil supersonic aircraft, including those  
4           identified as a result of industry consultation and  
5           feedback; and

6           (3) a timeline for any actions to be taken to up-  
7           date or modify existing policies and regulations re-  
8           lated to civil supersonic aircraft.

9 **SEC. 529. OKLAHOMA REGISTRY OFFICE.**

10          The Administrator of the Federal Aviation Adminis-  
11          tration shall consider the aircraft registry office in Okla-  
12          homa City, Oklahoma, as excepted during a Government  
13          shutdown or emergency (as it provides excepted services)  
14          to ensure that it remains open during any Government  
15          shutdown or emergency.

16 **SEC. 530. FOREIGN AIR TRANSPORTATION UNDER UNITED**  
17                                   **STATES-EUROPEAN UNION AIR TRANSPORT**  
18                                   **AGREEMENT.**

19          (a) CERTAIN FOREIGN AIR TRANSPORTATION PER-  
20          MITS.—The Secretary of Transportation may not issue a  
21          permit under section 41302 of title 49, United States  
22          Code, or an exemption under section 40109 of such title,  
23          authorizing a person to provide foreign air transportation  
24          as a foreign air carrier under the United States-European  
25          Union Air Transport Agreement of April 2007 (as amend-

1 ed) in a proceeding in which the applicability of Article  
2 17 bis of such Agreement has been raised by an interested  
3 person, unless the Secretary—

4 (1) finds that issuing the permit or exemption  
5 would be consistent with the intent set forth in Arti-  
6 cle 17 bis of the Agreement, that opportunities cre-  
7 ated by the Agreement do not undermine labor  
8 standards or the labor-related rights and principles  
9 contained in the laws of the respective parties to the  
10 Agreement; and

11 (2) imposes on the permit or exemption such  
12 conditions as may be necessary to ensure that the  
13 person complies with the intent of Article 17 bis.

14 (b) PUBLIC INTEREST TEST.—Section 41302(2) of  
15 title 49, United States Code, is amended—

16 (1) in subparagraph (A) by striking “under an  
17 agreement with the United States Government; or”  
18 and inserting “; and”; and

19 (2) in subparagraph (B) by striking “the for-  
20 eign air transportation” and inserting “after consid-  
21 ering the totality of the circumstances, including the  
22 factors set forth in section 40101(a), the foreign air  
23 transportation”.

24 (c) PUBLIC INTEREST REQUIREMENTS.—

1           (1) POLICY.—Section 40101(a) of title 49,  
2           United States Code, is amended by adding at the  
3           end the following:

4           “(17) preventing entry into United States mar-  
5           kets by flag of convenience carriers.”.

6           (2) INTERNATIONAL AIR TRANSPORTATION.—  
7           Section 40101(e)(9) of title 49, United States Code,  
8           is amended—

9           (A) in subparagraph (D) by striking “and”  
10          at the end;

11          (B) in subparagraph (E) by striking the  
12          period at the end and inserting “; and”; and

13          (C) by adding at the end the following:

14          “(F) erosion of labor standards associated  
15          with flag of convenience carriers.”.

16          (3) FLAG OF CONVENIENCE CARRIER DE-  
17          FINED.—Section 40102(a) of title 49, United States  
18          Code, as amended by this Act, is further amended  
19          by adding at the end the following:

20          “(48) ‘flag of convenience carrier’ means a for-  
21          eign air carrier that is established in a country other  
22          than the home country of its majority owner or own-  
23          ers in order to avoid regulations of the home coun-  
24          try.”.

1 **SEC. 531. TRAINING ON HUMAN TRAFFICKING FOR CER-**  
2 **TAIN STAFF.**

3 (a) IN GENERAL.—Chapter 447 of title 49, United  
4 States Code, as amended by this Act, is further amended  
5 by adding at the end the following:

6 **“§ 44737. Training on human trafficking for certain**  
7 **staff**

8 “In addition to other training requirements, each air  
9 carrier shall provide training—

10 “(1) to ticket counter agents, gate agents, and  
11 other air carrier workers whose jobs require regular  
12 interaction with passengers; and

13 “(2) on recognizing and responding to potential  
14 human trafficking victims.”.

15 (b) CLERICAL AMENDMENT.—The analysis for chap-  
16 ter 447 of title 49, United States Code, as amended by  
17 this Act, is further amended by adding at the end the fol-  
18 lowing:

“44737. Training on human trafficking for certain staff.”.

19 **SEC. 532. PART 107 IMPLEMENTATION IMPROVEMENTS.**

20 (a) IN GENERAL.—Not later than 30 days after the  
21 date of enactment of this section, the Administrator of the  
22 Federal Aviation Administration shall publish a direct  
23 final rule—

1           (1) revising section 107.205 of title 14, Code of  
2       Federal Regulations, by striking the second sentence  
3       of subsections (a) and (c); and

4           (2) revising section 107.25 of such title by  
5       striking “and is not transporting another person’s  
6       property for compensation or hire”.

7       (b) DETERMINATION OF WAIVER.—In determining  
8       whether to grant a waiver under part 107 of title 14, Code  
9       of Federal Regulations, to authorize transportation of an-  
10      other’s property for compensation or hire beyond the vis-  
11      ual line of sight of the remote pilot, from a moving vehicle,  
12      or over people, the Administrator shall consider the tech-  
13      nological capabilities of the unmanned aircraft system, the  
14      qualifications of the remote pilot, and the operational envi-  
15      ronment.

16   **SEC. 533. PART 107 TRANSPARENCY AND TECHNOLOGY IM-**  
17                                   **PROVEMENTS.**

18       (a) TRANSPARENCY.—Not later than 30 days after  
19      the date of enactment of this Act, the Administrator of  
20      the Federal Aviation Administration shall publish on the  
21      Federal Aviation Administration website a representative  
22      sample of the safety justifications, offered by applicants  
23      for small unmanned aircraft system waivers and airspace  
24      authorizations, that have been approved by the Adminis-  
25      tration for each regulation waived or class of airspace au-

1 thorized, except that any published justification shall not  
2 reveal proprietary or commercially sensitive information.

3 (b) TECHNOLOGY IMPROVEMENTS.—Not later than  
4 90 days after the date of enactment of this Act, the Ad-  
5 ministrator shall revise the online waiver and certificates  
6 of authorization processes—

7 (1) to provide real time confirmation that an  
8 application filed online has been received by the Ad-  
9 ministration; and

10 (2) to provide an applicant with an opportunity  
11 to review the status of the applicant’s application.

12 **SEC. 534. PROHIBITIONS AGAINST SMOKING ON PAS-**  
13 **SENGER FLIGHTS.**

14 Section 41706 of title 49, United States Code, is  
15 amended—

16 (1) by redesignating subsection (d) as sub-  
17 section (e); and

18 (2) by inserting after subsection (c) the fol-  
19 lowing:

20 “(d) ELECTRONIC CIGARETTES.—

21 “(1) INCLUSION.—The use of an electronic cig-  
22 arette shall be treated as smoking for purposes of  
23 this section.

24 “(2) ELECTRONIC CIGARETTE DEFINED.—In  
25 this section, the term ‘electronic cigarette’ means a

1 device that delivers nicotine to a user of the device  
2 in the form of a vapor that is inhaled to simulate  
3 the experience of smoking.”.

4 **SEC. 535. CONSUMER PROTECTION REQUIREMENTS RELAT-**  
5 **ING TO LARGE TICKET AGENTS.**

6 (a) **IN GENERAL.**—Not later than 90 days after the  
7 date of enactment of this Act, the Secretary of Transpor-  
8 tation shall issue a final rule to require large ticket agents  
9 to adopt minimum customer service standards.

10 (b) **PURPOSE.**—The purpose of the final rule shall be  
11 to ensure that, to the maximum extent practicable, there  
12 is a consistent level of consumer protection regardless of  
13 where consumers purchase air fares and related air trans-  
14 portation services.

15 (c) **STANDARDS.**—In issuing the final rule, the Sec-  
16 retary shall consider, at a minimum, establishing stand-  
17 ards for—

18 (1) providing prompt refunds when ticket re-  
19 funds are due, including fees for optional services  
20 that consumers purchased but were not able to use  
21 due to a flight cancellation or oversale situation;

22 (2) providing an option to hold a reservation at  
23 the quoted fare without payment, or to cancel with-  
24 out penalty, for 24 hours;

1           (3) disclosing cancellation policies, seating con-  
2           figurations, and lavatory availability with respect to  
3           flights;

4           (4) notifying customers in a timely manner of  
5           itinerary changes; and

6           (5) responding promptly to customer com-  
7           plaints.

8           (d) DEFINITIONS.—In this section, the following shall  
9           apply:

10           (1) TICKET AGENT.—

11           (A) IN GENERAL.—Subject to subpara-  
12           graph (B), the term “ticket agent” has the  
13           meaning given that term in section 40102(a) of  
14           title 49, United States Code.

15           (B) INCLUSION.—The term “ticket agent”  
16           includes a person who acts as an intermediary  
17           involved in the sale of air transportation di-  
18           rectly or indirectly to consumers, including by  
19           operating an electronic airline information sys-  
20           tem, if the person—

21                   (i) holds the person out as a source of  
22                   information about, or reservations for, the  
23                   air transportation industry; and

24                   (ii) receives compensation in any way  
25                   related to the sale of air transportation.



1           (2) LARGE TICKET AGENT.—The term “large  
2           ticket agent” means a ticket agent with annual reve-  
3           nues of \$100,000,000 or more.

4 **SEC. 536. FAA DATA TRANSPARENCY.**

5           Section 45303 of title 49, United States Code, is  
6           amended by adding at the end the following:

7           “(g) DATA TRANSPARENCY.—

8                 “(1) AIR TRAFFIC SERVICES INITIAL DATA RE-  
9                 PORT.—

10                         “(A) INITIAL REPORT.—Not later than 6  
11                         months after the date of enactment of the FAA  
12                         Reauthorization Act of 2018, the Administrator  
13                         and the Chief Operating Officer of the Air  
14                         Traffic Organization shall, based upon the most  
15                         recently available full fiscal year data, complete  
16                         the following calculations for each segment of  
17                         air traffic services users:

18                                 “(i) The total costs allocable to the  
19                                 use of air traffic services for that segment  
20                                 during such fiscal year.

21                                 “(ii) The total revenues received from  
22                                 that segment during such fiscal year.

23                         “(B) VALIDATION OF MODEL.—

24                                 “(i) REVIEW AND DETERMINATION.—  
25                                 Not later than 3 months after completion

1 of the initial report required under sub-  
2 paragraph (A), the Inspector General of  
3 the Department of Transportation shall re-  
4 view and determine the validity of the  
5 model used by the Administrator and the  
6 Chief Operating Officer to complete the  
7 calculations required under subparagraph  
8 (A).

9 “(ii) VALIDATION PROCESS.—In the  
10 event that the Inspector General deter-  
11 mines that the model used by the Adminis-  
12 trator and the Chief Operating Officer to  
13 complete the calculations required by sub-  
14 paragraph (A) is not valid—

15 “(I) the Inspector General shall  
16 provide the Administrator and Chief  
17 Operating Officer recommendations  
18 on how to revise the model;

19 “(II) the Administrator and the  
20 Chief Operating Officer shall complete  
21 the calculations required by subpara-  
22 graph (A) utilizing the revised model  
23 and resubmit the revised initial report  
24 required under subparagraph (A) to  
25 the Inspector General; and

1                   “(III) not later than 3 months  
2                   after completion of the revised initial  
3                   report required under subparagraph  
4                   (A), the Inspector General shall re-  
5                   view and determine the validity of the  
6                   revised model used by the Adminis-  
7                   trator and the Chief Operating Officer  
8                   to complete the calculations required  
9                   by subparagraph (A).

10                   “(iii) ACCESS TO DATA.—The Admin-  
11                   istrator and the Chief Operating Officer  
12                   shall provide the Inspector General of the  
13                   Department of Transportation with unfet-  
14                   tered access to all data produced by the  
15                   cost accounting system operated and main-  
16                   tained pursuant to subsection (e).

17                   “(C) REPORT TO CONGRESS.—Not later  
18                   than 60 days after completion of the review and  
19                   receiving a determination that the model used is  
20                   valid under subparagraph (B), the Adminis-  
21                   trator and the Chief Operating Officer shall  
22                   submit to the Committee on Transportation and  
23                   Infrastructure, the Committee on Appropria-  
24                   tions, and the Committee on Ways and Means  
25                   of the House of Representatives, and the Com-

1           committee on Commerce, Science, and Transpor-  
2           tation, the Committee on Appropriations, and  
3           the Committee on Finance of the Senate a re-  
4           port describing the results of the calculations  
5           completed under subparagraph (A).

6           “(D) PUBLICATION.—Not later than 60  
7           days after submission of the report required  
8           under subparagraph (C), the Administrator and  
9           Chief Operating Officer shall publish the initial  
10          report, including any revision thereto if required  
11          as a result of the validation process for the  
12          model.

13          “(2) AIR TRAFFIC SERVICES BIENNIAL DATA  
14          REPORTING.—

15          “(A) BIENNIAL DATA REPORTING.—Not  
16          later than March 31, 2019, and biennially  
17          thereafter for 8 years, the Administrator and  
18          the Chief Operating Officer shall, using the  
19          validated model, complete the following calcula-  
20          tions for each segment of air traffic services  
21          users for the most recent full fiscal year:

22                  “(i) The total costs allocable to the  
23                  use of the air traffic services for that seg-  
24                  ment.

1                   “(ii) The total revenues received from  
2                   that segment.

3                   “(B) REPORT TO CONGRESS.—Not later  
4                   than 15 days after completing the calculations  
5                   under subparagraph (A), the Administrator and  
6                   the Chief Operating Officer shall complete and  
7                   submit to the Committee on Transportation and  
8                   Infrastructure, the Committee on Appropria-  
9                   tions, and the Committee on Ways and Means  
10                  of the House of Representatives, and the Com-  
11                  mittee on Commerce, Science, and Transpor-  
12                  tation, the Committee on Appropriations, and  
13                  the Committee on Finance of the Senate a re-  
14                  port containing the results of such calculations.

15                  “(C) PUBLICATION.—Not later than 60  
16                  days after completing the calculations pursuant  
17                  to subparagraph (A), the Administrator and the  
18                  Chief Operating Officer shall publish the results  
19                  of such calculations.

20                  “(3) SEGMENTS OF AIR TRAFFIC SERVICES  
21                  USERS.—

22                  “(A) IN GENERAL.—For purposes of this  
23                  subsection, each of the following shall constitute  
24                  a separate segment of air traffic services users:

1           “(i) Passenger air carriers conducting  
2 operations under part 121 of title 14, Code  
3 of Federal Regulations.

4           “(ii) All-cargo air carriers conducting  
5 operations under part 121 of such title.

6           “(iii) Operators covered by part 125  
7 of such title.

8           “(iv) Air carriers and operators of pis-  
9 ton-engine aircraft operating under part  
10 135 of such title.

11           “(v) Air carriers and operators of tur-  
12 bine-engine aircraft operating under part  
13 135 of such title.

14           “(vi) Foreign air carriers providing  
15 passenger air transportation.

16           “(vii) Foreign air carriers providing  
17 all-cargo air transportation.

18           “(viii) Operators of turbine-engine air-  
19 craft operating under part 91 of such title,  
20 excluding those operating under subpart  
21 (K) of such part.

22           “(ix) Operators of piston-engine air-  
23 craft operating under part 91 of such title,  
24 excluding those operating under subpart  
25 (K) of such part.

1                   “(x) Operators covered by subpart (K)  
2 of part 91 of such title.

3                   “(xi) Operators covered by part 133  
4 of such title.

5                   “(xii) Operators covered by part 136  
6 of such title.

7                   “(xiii) Operators covered by part 137  
8 of such title.

9                   “(xiv) Operators of public aircraft  
10 that qualify under section 40125.

11                   “(xv) Operators of aircraft that nei-  
12 ther take off from, nor land in, the United  
13 States.

14                   “(B) ADDITIONAL SEGMENTS.—The Sec-  
15 retary may identify and include additional seg-  
16 ments of air traffic users under paragraph (A)  
17 as revenue and air traffic services cost data be-  
18 comes available for that additional segment of  
19 air traffic services users.

20                   “(4) DEFINITIONS.—For purposes of this sub-  
21 section:

22                   “(A) AIR TRAFFIC SERVICES.—The term  
23 ‘air traffic services’ means services—

24                   “(i) used for the monitoring, direct-  
25 ing, control, and guidance of aircraft or

1 flows of aircraft and for the safe conduct  
2 of flight, including communications, navi-  
3 gation, and surveillance services and provi-  
4 sion of aeronautical information; and

5 “(ii) provided directly, or contracted  
6 for, by the Federal Aviation Administra-  
7 tion.

8 “(B) AIR TRAFFIC SERVICES USER.—The  
9 term ‘air traffic services user’ means any indi-  
10 vidual or entity using air traffic services pro-  
11 vided directly, or contracted for, by the Federal  
12 Aviation Administration within United States  
13 airspace or international airspace delegated to  
14 the United States.”.

15 **SEC. 537. AGENCY PROCUREMENT REPORTING REQUIRE-**  
16 **MENTS.**

17 Section 40110(d) of title 49, United States Code, is  
18 amended by adding at the end the following:

19 “(5) ANNUAL REPORT ON THE PURCHASE OF  
20 FOREIGN MANUFACTURED ARTICLES.—

21 “(A) REPORT.—Not later than 90 days  
22 after the end of the fiscal year, the Secretary  
23 of Transportation shall submit a report to Con-  
24 gress on the dollar amount of the acquisitions  
25 made by the agency from entities that manufac-



1           ture the articles, materials, or supplies outside  
2           of the United States in such fiscal year.

3           “(B) CONTENTS.—The report required by  
4           subparagraph (A) shall separately indicate—

5                   “(i) the dollar value of any articles,  
6                   materials, or supplies purchased that were  
7                   manufactured outside of the United States;  
8                   and

9                   “(ii) a summary of the total procure-  
10                  ment funds spent on goods manufactured  
11                  in the United States versus funds spent on  
12                  goods manufactured outside of the United  
13                  States.

14           “(C) AVAILABILITY OF REPORT.—The Sec-  
15           retary shall make the report under subpara-  
16           graph (A) publicly available on the agency’s  
17           website not later than 30 days after submission  
18           to Congress.”.

19 **SEC. 538. ZERO-EMISSION VEHICLES AND TECHNOLOGY.**

20           (a) PASSENGER FACILITY CHARGE ELIGIBILITY.—  
21           Section 40117(a)(3) of title 49, United States Code, is  
22           amended by adding at the end the following:

23                   “(H) A project for—

24                   “(i) converting or retrofitting vehicles  
25                   and ground support equipment into eligible

1 zero-emission vehicles and equipment (as  
2 defined in section 47102); or

3 “(ii) acquiring, by purchase or lease,  
4 eligible zero-emission vehicles and equip-  
5 ment (as defined in section 47102).”.

6 (b) AIRPORT IMPROVEMENT PROGRAM ELIGI-  
7 BILITY.—

8 (1) AIRPORT DEVELOPMENT DEFINED.—Sec-  
9 tion 47102(3) of title 49, United States Code, as  
10 amended by this Act, is further amended by adding  
11 at the end the following:

12 “(P) converting or retrofitting vehicles and  
13 ground support equipment into eligible zero-  
14 emission vehicles and equipment or acquiring,  
15 by purchase or lease, eligible zero-emission vehi-  
16 cles and equipment.

17 “(Q) constructing or modifying airport fa-  
18 cilities to install a microgrid in order to provide  
19 increased resilience to severe weather, ter-  
20 rorism, and other causes of grid failures.”.

21 (2) ADDITIONAL DEFINITIONS.—Section 47102  
22 of title 49, United States Code, as amended by this  
23 Act, is further amended by adding at the end the  
24 following:

1           “(30) ‘eligible zero-emission vehicle and equip-  
2           ment’ means a zero-emission vehicle, equipment re-  
3           lated to such a vehicle, and ground support equip-  
4           ment that includes zero-emission technology that  
5           is—

6                     “(A) used exclusively at a commercial serv-  
7                     ice airport; or

8                     “(B) used exclusively to transport people  
9                     or materials to and from a commercial service  
10                    airport.

11           “(31) ‘microgrid’ means a localized grouping of  
12           electricity sources and loads that normally operates  
13           connected to and synchronous with the traditional  
14           centralized electrical grid, but can disconnect and  
15           function autonomously as physical or economic con-  
16           ditions dictate.

17           “(32) ‘zero-emission vehicle’ means a zero-emis-  
18           sion vehicle as defined in section 88.102–94 of title  
19           40, Code of Federal Regulations, or a vehicle that  
20           produces zero exhaust emissions of any criteria pol-  
21           lutant (or precursor pollutant) under any possible  
22           operational modes and conditions.”.

23           (3) SPECIAL APPORTIONMENT CATEGORIES.—  
24           Section 47117(e)(1)(A) of title 49, United States  
25           Code, is amended by inserting “for airport develop-

1 ment described in section 47102(3)(P),” after  
2 “under section 47141,”.

3 (c) ZERO-EMISSION PROGRAM.—Chapter 471 of title  
4 49, United States Code, is amended—

5 (1) by striking section 47136;

6 (2) by redesignating section 47136a as section  
7 47136; and

8 (3) in section 47136, as so redesignated, by  
9 striking subsections (a) and (b) and inserting the  
10 following:

11 “(a) IN GENERAL.—The Secretary of Transportation  
12 may establish a pilot program under which the sponsors  
13 of not less than 10 public-use airports may use funds  
14 made available under this chapter or section 48103 for  
15 use at such airports to carry out—

16 “(1) activities associated with the acquisition,  
17 by purchase or lease, and operation of zero-emission  
18 vehicles, including removable power sources for such  
19 vehicles; and

20 “(2) the construction or modification of infra-  
21 structure to facilitate the delivery of fuel and serv-  
22 ices necessary for the use of such vehicles.

23 “(b) ELIGIBILITY.—A public-use airport is eligible  
24 for participation in the program if the vehicles or ground  
25 support equipment are—

1 “(1) used exclusively at the airport; or

2 “(2) used exclusively to transport people or ma-  
3 terials to and from the airport.”;

4 (4) in section 47136, as so redesignated, by  
5 striking subsections (d) and (e) and inserting the  
6 following:

7 “(d) FEDERAL SHARE.—The Federal share of the  
8 cost of a project carried out under the program shall be  
9 the Federal share specified in section 47109.

10 “(e) TECHNICAL ASSISTANCE.—

11 “(1) IN GENERAL.—The sponsor of a public-use  
12 airport may use not more than 10 percent of the  
13 amounts made available to the sponsor under the  
14 program in any fiscal year for—

15 “(A) technical assistance; and

16 “(B) project management support to assist  
17 the airport with the solicitation, acquisition,  
18 and deployment of zero-emission vehicles, re-  
19 lated equipment, and supporting infrastructure.

20 “(2) PROVIDERS OF TECHNICAL ASSISTANCE.—

21 To receive the technical assistance or project man-  
22 agement support described in paragraph (1), partici-  
23 pants in the program may use—

24 “(A) a nonprofit organization selected by  
25 the Secretary; or

1           “(B) a university transportation center re-  
2           ceiving grants under section 5505 in the region  
3           of the airport.”;

4           (5) in section 47136, as so redesignated, in sub-  
5           section (f) by striking “section 47136” and inserting  
6           “the inherently low emission airport vehicle pilot  
7           program”; and

8           (6) in section 47136, as so redesignated, by  
9           adding at the end the following:

10          “(g) ALLOWABLE PROJECT COST.—The allowable  
11          project cost for the acquisition of a zero-emission vehicle  
12          shall be the total cost of purchasing or leasing the vehicle,  
13          including the cost of technical assistance or project man-  
14          agement support described in subsection (e).

15          “(h) FLEXIBLE PROCUREMENT.—A sponsor of a  
16          public-use airport may use funds made available under the  
17          program to acquire, by purchase or lease, a zero-emission  
18          vehicle and a removable power source in separate trans-  
19          actions, including transactions by which the airport pur-  
20          chases the vehicle and leases the removable power source.

21          “(i) TESTING REQUIRED.—A sponsor of a public-use  
22          airport may not use funds made available under the pro-  
23          gram to acquire a zero-emission vehicle unless that make,  
24          model, or type of vehicle has been tested by a Federal vehi-  
25          cle testing facility acceptable to the Secretary.

1       “(j) **REMOVABLE POWER SOURCE DEFINED.**—In  
2 this section, the term ‘removable power source’ means a  
3 power source that is separately installed in, and removable  
4 from, a zero-emission vehicle and may include a battery,  
5 a fuel cell, an ultra-capacitor, or other advanced power  
6 source used in a zero-emission vehicle.”.

7       (d) **CLERICAL AMENDMENT.**—The analysis for chap-  
8 ter 471 of title 49, United States Code, is amended by  
9 striking the items relating to sections 47136 and 47136a  
10 and inserting the following:

“47136. Zero-emission airport vehicles and infrastructure.”.

11 **SEC. 539. EMPLOYEE ASSAULT PREVENTION AND RE-**  
12 **SPONSE PLANS.**

13       (a) **IN GENERAL.**—Not later than 90 days after the  
14 date of enactment of this Act, each air carrier operating  
15 under part 121 of title 14, Code of Federal Regulations  
16 (in this section referred to as a “part 121 air carrier”),  
17 shall submit to the Administrator of the Federal Aviation  
18 Administration for review and acceptance an Employee  
19 Assault Prevention and Response Plan related to the cus-  
20 tomer service agents of the air carrier and that is devel-  
21 oped in consultation with the labor union representing  
22 such agents.

23       (b) **CONTENTS OF PLAN.**—An Employee Assault Pre-  
24 vention and Response Plan submitted under subsection (a)  
25 shall include the following:

1           (1) Reporting protocols for air carrier customer  
2           service agents who have been the victim of a verbal  
3           or physical assault.

4           (2) Protocols for the immediate notification of  
5           law enforcement after an incident of verbal or phys-  
6           ical assault committed against an air carrier cus-  
7           tomer service agent.

8           (3) Protocols for informing Federal law enforce-  
9           ment with respect to violations of section 46503 of  
10          title 49, United States Code.

11          (4) Protocols for ensuring that a passenger in-  
12          volved in a violent incident with a customer service  
13          agent of an air carrier is not allowed to move  
14          through airport security or board an aircraft until  
15          appropriate law enforcement has had an opportunity  
16          to assess the incident and take appropriate action.

17          (5) Protocols for air carriers to inform pas-  
18          sengers of Federal laws protecting Federal, airport,  
19          and air carrier employees who have security duties  
20          within an airport.

21          (c) EMPLOYEE TRAINING.—A part 121 air carrier  
22          shall conduct initial and recurrent training for all employ-  
23          ees, including management, of the air carrier with respect  
24          to the plan required under subsection (a), which shall in-  
25          clude training on de-escalating hostile situations, written



1 protocols on dealing with hostile situations, and the re-  
2 porting of relevant incidents.

3 **SEC. 540. STUDY ON TRAINING OF CUSTOMER-FACING AIR**  
4 **CARRIER EMPLOYEES.**

5 (a) IN GENERAL.—Not later than 180 days after the  
6 date of enactment of this Act, the Secretary of Transpor-  
7 tation shall conduct a study on the training received by  
8 customer-facing employees of air carriers.

9 (b) CONTENTS.—The study shall include—

10 (1) an analysis of the training received by cus-  
11 tomer-facing employees with respect to the manage-  
12 ment of disputes on aircraft; and

13 (2) an examination of how institutions of higher  
14 learning, in coordination with air carriers, customer-  
15 facing employees and their representatives, consumer  
16 advocacy organizations, and other stakeholders,  
17 could—

18 (A) review such training and related prac-  
19 tices;

20 (B) produce recommendations; and

21 (C) if determined appropriate, provide sup-  
22 plemental training.

23 (c) REPORT.—Not later than 1 year after the date  
24 of enactment of this Act, the Secretary shall submit to  
25 the Committee on Transportation and Infrastructure of

1 the House of Representatives and the Committee on Com-  
2 merce, Science, and Transportation of the Senate a report  
3 on the results of the study.

4 **SEC. 541. MINIMUM DIMENSIONS FOR PASSENGER SEATS.**

5 (a) IN GENERAL.—Not later than 1 year after the  
6 date of enactment of this Act, and after providing notice  
7 and an opportunity for comment, the Administrator of the  
8 Federal Aviation Administration shall issue regulations  
9 that establish minimum dimensions for passenger seats on  
10 aircraft operated by air carriers in interstate air transpor-  
11 tation or intrastate air transportation, including mini-  
12 mums for seat pitch, width, and length, and that are nec-  
13 essary for the safety and health of passengers.

14 (b) DEFINITIONS.—The definitions contained in sec-  
15 tion 40102(a) of title 49, United States Code, apply to  
16 this section.

17 **SEC. 542. STUDY OF GROUND TRANSPORTATION OPTIONS.**

18 Not later than 1 year after the date of enactment  
19 of this Act, the Comptroller General of the United States  
20 shall conduct a study that examines the ground transpor-  
21 tation options at the Nation's 10 busiest airports in order  
22 to—

23 (1) understand the impact of new and emerging  
24 transportation options for travelers to get into and  
25 out of airports;

1           (2) determine whether it is appropriate to use  
2           airport improvement funds and revenues from pas-  
3           senger facility charges to address traffic congestion  
4           and passenger travel times between urban commer-  
5           cial centers and airports; and

6           (3) review guidelines and requirements for air-  
7           port improvement funds and passenger facility  
8           charges to determine under what conditions such  
9           funds may be used to address traffic congestion in  
10          urban commercial centers for travel to airports.

## 11   **TITLE VI—DISASTER RECOVERY** 12                                   **REFORM ACT**

### 13   **SEC. 601. APPLICABILITY.**

14          Except as otherwise expressly provided, the amend-  
15          ments in this title to the Robert T. Stafford Disaster Re-  
16          lief and Emergency Assistance Act (42 U.S.C. 5121 et  
17          seq.) apply to each major disaster and emergency declared  
18          by the President on or after August 1, 2017, under such  
19          Act.

### 20   **SEC. 602. STATE DEFINED.**

21          In this title, the term “State” has the meaning given  
22          that term in section 102(4) of the Robert T. Stafford Dis-  
23          aster Relief and Emergency Assistance Act (42 U.S.C.  
24          5122(4)).

1 **SEC. 603. WILDFIRE PREVENTION.**

2 (a) MITIGATION ASSISTANCE.—Section 420 of the  
3 Robert T. Stafford Disaster Relief and Emergency Assist-  
4 ance Act (42 U.S.C. 5187) is amended—

5 (1) by redesignating subsection (d) as sub-  
6 section (e); and

7 (2) by inserting after subsection (c) the fol-  
8 lowing:

9 “(d) HAZARD MITIGATION ASSISTANCE.—Whether  
10 or not a major disaster is declared, the President may pro-  
11 vide hazard mitigation assistance in accordance with sec-  
12 tion 404 in any area affected by a fire for which assistance  
13 was provided under this section.”.

14 (b) CONFORMING AMENDMENTS.—The Robert T.  
15 Stafford Disaster Relief and Emergency Assistance Act  
16 (42 U.S.C. 5121 et seq.) is amended—

17 (1) in section 404(a) (42 U.S.C. 5170c(a)) (as  
18 amended by section 636(a) of this Act)—

19 (A) by inserting before the first period “,  
20 or any area affected by a fire for which assist-  
21 ance was provided under section 420”; and

22 (B) in the third sentence by inserting “or  
23 event under section 420” after “major disaster”  
24 each place it appears; and

1           (2) in section 322(e)(1) (42 U.S.C. 5165(e)(1)),  
2           by inserting “or event under section 420” after  
3           “major disaster” each place it appears.

4           (c) REPORTING REQUIREMENT.—Not later than 1  
5           year after the date of enactment of this Act and annually  
6           thereafter, the Administrator of the Federal Emergency  
7           Management Agency shall submit to the Committee on  
8           Homeland Security and Governmental Affairs of the Sen-  
9           ate, the Committee on Transportation and Infrastructure  
10          of the House of Representatives, and the Appropriations  
11          Committees of the Senate and the House of Representa-  
12          tives a report containing a summary of any projects car-  
13          ried out, and any funding provided to those projects,  
14          under subsection (d) of section 420 of the Robert T. Staf-  
15          ford Disaster Relief and Emergency Assistance Act (42  
16          U.S.C. 5187) (as amended by this section).

17       **SEC. 604. ADDITIONAL ACTIVITIES.**

18          Section 404 of the Robert T. Stafford Disaster Relief  
19          and Emergency Assistance Act (42 U.S.C. 5170c) is  
20          amended by adding at the end the following:

21          “(f) USE OF ASSISTANCE.—Recipients of hazard  
22          mitigation assistance provided under this section and sec-  
23          tion 203 may use the assistance to conduct activities to  
24          help reduce the risk of future damage, hardship, loss, or

1 suffering in any area affected by a wildfire or windstorm,  
2 including—

3 “(1) reseeded ground cover with quick-growing  
4 or native species;

5 “(2) mulching with straw or chipped wood;

6 “(3) constructing straw, rock, or log dams in  
7 small tributaries to prevent flooding;

8 “(4) placing logs and other erosion barriers to  
9 catch sediment on hill slopes;

10 “(5) installing debris traps to modify road and  
11 trail drainage mechanisms;

12 “(6) modifying or removing culverts to allow  
13 drainage to flow freely;

14 “(7) adding drainage dips and constructing  
15 emergency spillways to keep roads and bridges from  
16 washing out during floods;

17 “(8) planting grass to prevent the spread of  
18 noxious weeds;

19 “(9) installing warning signs;

20 “(10) establishing defensible space measures;

21 “(11) reducing hazardous fuels; and

22 “(12) windstorm damage, including replacing or  
23 installing electrical transmission or distribution util-  
24 ity pole structures with poles that are resilient to ex-  
25 treme wind and combined ice and wind loadings for

1 the basic wind speeds and ice conditions associated  
2 with the relevant location.”.

3 **SEC. 605. ELIGIBILITY FOR CODE IMPLEMENTATION AND**  
4 **ENFORCEMENT.**

5 Section 406(a)(2) of the Robert T. Stafford Disaster  
6 Relief and Emergency Assistance Act (42 U.S.C.  
7 5172(a)(2)) is amended—

8 (1) by striking “and” at the end of subpara-  
9 graph (B);

10 (2) by striking the period at the end of sub-  
11 paragraph (C) and inserting “; and”; and

12 (3) by adding at the end the following:

13 “(D) base and overtime wages for extra  
14 hires to facilitate the implementation and en-  
15 forcement of adopted building codes for a pe-  
16 riod of not more than 180 days after the major  
17 disaster is declared.”.

18 **SEC. 606. PROGRAM IMPROVEMENTS.**

19 (a) HAZARD MITIGATION.—Section 406(e) of the  
20 Robert T. Stafford Disaster Relief and Emergency Assist-  
21 ance Act (42 U.S.C. 5172(e)) is amended—

22 (1) in paragraph (1)(A), by striking “90 per-  
23 cent of”; and

24 (2) in paragraph (2)(A), by striking “75 per-  
25 cent of”.

1 (b) PARTICIPATION.—Section 428(d) of such Act (42  
2 U.S.C. 5189f) is amended—

3 (1) by inserting “(1) IN GENERAL.—” before  
4 “Participation in”; and

5 (2) by adding at the end the following:

6 “(2) NO CONDITIONS.—The President may not  
7 condition the provision of Federal assistance under  
8 this Act on the election by a State, Tribal, or local  
9 government, or owner or operator of a private non-  
10 profit facility to participate in the alternative proce-  
11 dures adopted under this section.”.

12 (c) CERTIFICATION.—Section 428(e)(1) of such Act  
13 (42 U.S.C. 5189f(e)(1)) is amended—

14 (1) in subparagraph (E), by striking “and” at  
15 the end;

16 (2) in subparagraph (F), by striking the period  
17 and inserting “; and”; and

18 (3) by adding at the end the following:

19 “(G) once certified by a professionally li-  
20 censed engineer and accepted by the Adminis-  
21 trator, the estimates on which grants made pur-  
22 suant to this section are based shall be pre-  
23 sumed to be reasonable and eligible costs, as  
24 long as there is no evidence of fraud.”.



1 **SEC. 607. PRIORITIZATION OF FACILITIES.**

2 Not later than 180 days after the date of enactment  
3 of this Act, the Administrator of the Federal Emergency  
4 Management Agency shall provide guidance and training  
5 on an annual basis to State, Tribal, and local govern-  
6 ments, first responders, and utility companies on—

7 (1) the need to prioritize assistance to hospitals,  
8 nursing homes, and other long-term care facilities to  
9 ensure that such health care facilities remain func-  
10 tioning or return to functioning as soon as prac-  
11 ticable during power outages caused by natural haz-  
12 ards, including severe weather events; and

13 (2) how hospitals, nursing homes and other  
14 long-term care facilities should adequately prepare  
15 for power outages during a major disaster or emer-  
16 gency.

17 **SEC. 608. GUIDANCE ON EVACUATION ROUTES.**

18 (a) IN GENERAL.—

19 (1) IDENTIFICATION.—The Administrator of  
20 the Federal Emergency Management Agency, in co-  
21 ordination with the Administrator of the Federal  
22 Highway Administration, shall develop and issue  
23 guidance for State, local, and Tribal governments re-  
24 garding the identification of evacuation routes.

25 (2) GUIDANCE.—The Administrator of the Fed-  
26 eral Highway Administration, in coordination with

1 the Administrator of the Federal Emergency Man-  
2 agement Agency, shall revise existing guidance or  
3 issue new guidance as appropriate for State, local,  
4 and Tribal governments regarding the design, con-  
5 struction, maintenance, and repair of evacuation  
6 routes.

7 (b) CONSIDERATIONS.—

8 (1) IDENTIFICATION.—In developing the guid-  
9 ance under subsection (a)(1), the Administrator of  
10 the Federal Emergency Management Agency shall  
11 consider—

12 (A) whether evacuation routes have re-  
13 sisted impacts and recovered quickly from dis-  
14 asters, regardless of cause;

15 (B) the need to evacuate special needs pop-  
16 ulations, including—

17 (i) individuals with a physical or men-  
18 tal disability;

19 (ii) individuals in schools, daycare  
20 centers, mobile home parks, prisons, nurs-  
21 ing homes and other long-term care facili-  
22 ties, and detention centers;

23 (iii) individuals with limited-English  
24 proficiency;

25 (iv) the elderly; and

1 (v) individuals who are tourists, sea-  
2 sonal workers, or homeless;

3 (C) the sharing of information and other  
4 public communications with evacuees during  
5 evacuations;

6 (D) the sheltering of evacuees, including  
7 the care, protection, and sheltering of animals;

8 (E) the return of evacuees to their homes;  
9 and

10 (F) such other items the Administrator  
11 considers appropriate.

12 (2) DESIGN, CONSTRUCTION, MAINTENANCE,  
13 AND REPAIR.—In revising or issuing guidance under  
14 (a)(2), the Administrator of the Federal Highway  
15 Administration shall consider—

16 (A) methods that assist evacuation routes  
17 to—

18 (i) withstand likely risks to viability,  
19 including flammability and hydrostatic  
20 forces;

21 (ii) improve durability, strength (in-  
22 cluding the ability to withstand tensile  
23 stresses and compressive stresses), and  
24 sustainability; and

1 (iii) provide for long-term cost sav-  
2 ings;

3 (B) the ability of evacuation routes to ef-  
4 fectively manage contraflow operations;

5 (C) for evacuation routes on public lands,  
6 the viewpoints of the applicable Federal land  
7 management agency regarding emergency oper-  
8 ations, sustainability, and resource protection;  
9 and

10 (D) such other items the Administrator  
11 considers appropriate.

12 **SEC. 609. DUPLICATION OF BENEFITS.**

13 (a) IN GENERAL.—Section 312(b) of the Robert T.  
14 Stafford Disaster Relief and Emergency Assistance Act  
15 (42 U.S.C. 5155(b)) is amended by adding at the end the  
16 following:

17 “(4) WAIVER OF GENERAL PROHIBITION.—

18 “(A) IN GENERAL.—The President may  
19 waive the general prohibition provided in sub-  
20 section (a) upon request of a Governor on be-  
21 half of the State or on behalf of a person, busi-  
22 ness concern, or any other entity suffering  
23 losses as a result of a major disaster or emer-  
24 gency, if the President finds such waiver is in  
25 the public interest and will not result in waste,

1 fraud, or abuse. In making this decision, the  
2 President may consider the following:

3 “(i) The recommendations of the Ad-  
4 ministrator of the Federal Emergency  
5 Management Agency made in consultation  
6 with the Federal agency or agencies ad-  
7 ministering the duplicative program.

8 “(ii) If a waiver is granted, the assist-  
9 ance to be funded is cost effective.

10 “(iii) Equity and good conscience.

11 “(iv) Other matters of public policy  
12 considered appropriate by the President.

13 “(B) GRANT OR DENIAL OF WAIVER.—A  
14 request under subparagraph (A) shall be grant-  
15 ed or denied not later than 45 days after sub-  
16 mission of such request.

17 “(C) PROHIBITION ON DETERMINATION  
18 THAT LOAN IS A DUPLICATION.—Notwith-  
19 standing subsection (c), in carrying out sub-  
20 subparagraph (A), the President may not deter-  
21 mine that a loan is a duplication of assistance,  
22 provided that all Federal assistance is used to-  
23 ward a loss suffered as a result of the major  
24 disaster or emergency.”.

1 (b) FUNDING OF A FEDERALLY AUTHORIZED WATER  
2 RESOURCES DEVELOPMENT PROJECT.—

3 (1) ELIGIBLE ACTIVITIES.—Notwithstanding  
4 section 312 of the Robert T. Stafford Disaster Relief  
5 and Emergency Assistance Act (42 U.S.C. 5155)  
6 and its implementing regulations, assistance pro-  
7 vided pursuant to section 404 of such Act may be  
8 used to fund activities authorized for construction  
9 within the scope of a federally authorized water re-  
10 sources development project of the Army Corps of  
11 Engineers if such activities are also eligible activities  
12 under such section.

13 (2) FEDERAL FUNDING.—All Federal funding  
14 provided under section 404 pursuant to this section  
15 shall be applied toward the Federal share of such  
16 project.

17 (3) NON-FEDERAL MATCH.—All non-Federal  
18 matching funds required under section 404 pursuant  
19 to this section shall be applied toward the non-Fed-  
20 eral share of such project.

21 (4) TOTAL FEDERAL SHARE.—Funding pro-  
22 vided under section 404 pursuant to this section  
23 may not exceed the total Federal share for such  
24 project.

1           (5) NO EFFECT.—Nothing in this section  
2 shall—

3           (A) affect the cost-share requirement of a  
4 hazard mitigation measure under section 404;

5           (B) affect the eligibility criteria for a haz-  
6 ard mitigation measure under section 404;

7           (C) affect the cost share requirements of a  
8 federally authorized water resources develop-  
9 ment project; and

10           (D) affect the responsibilities of a non-  
11 Federal interest with respect to the project, in-  
12 cluding those related to the provision of lands,  
13 easements, rights-of-way, dredge material dis-  
14 posal areas, and necessary relocations.

15       (c) APPLICABILITY.—This section shall apply to each  
16 disaster and emergency declared pursuant to the Robert  
17 T. Stafford Disaster Relief and Emergency Assistance Act  
18 (42 U.S.C. 5121 et seq.) after January 1, 2016.

19 **SEC. 610. STATE ADMINISTRATION OF ASSISTANCE FOR DI-**  
20 **RECT TEMPORARY HOUSING AND PERMA-**  
21 **NENT HOUSING CONSTRUCTION.**

22       Section 408(f) of the Robert T. Stafford Disaster Re-  
23 lief and Emergency Assistance Act (42 U.S.C. 5174(f))  
24 is amended—

1 (1) in paragraph (1), by striking the paragraph  
2 heading and inserting “STATE- OR TRIBAL-ADMINIS-  
3 TERED ASSISTANCE AND OTHER NEEDS ASSIST-  
4 ANCE.—”;

5 (2) in paragraph (1)(A)—

6 (A) by striking “financial”; and

7 (B) by striking “subsection (e)” and in-  
8 serting “subsections (c)(1)(B), (c)(4), and (e) if  
9 the President and the State or Tribal govern-  
10 ment comply, as determined by the Adminis-  
11 trator, with paragraph (3)”;

12 (3) in paragraph (1)(B)—

13 (A) by striking “financial”; and

14 (B) by striking “subsection (e)” and in-  
15 serting “subsections (c)(1)(B), (c)(4), and (e)”;

16 and

17 (4) by adding at the end the following:

18 “(3) IN GENERAL.—

19 “(A) APPLICATION.—A State or Tribal  
20 government desiring to provide assistance under  
21 subsection (c)(1)(B), (c)(4), or (e) shall submit  
22 to the President an application for a grant to  
23 provide financial assistance under the program.

24 “(B) CRITERIA.—The President, in con-  
25 sultation and coordination with State, Tribal,



1 and local governments, shall establish criteria  
2 for the approval of applications submitted  
3 under subparagraph (A). The criteria shall in-  
4 clude, at a minimum—

5 “(i) the demonstrated ability of the  
6 State or Tribal government to manage the  
7 program under this section;

8 “(ii) there being in effect a plan ap-  
9 proved by the President as to how the  
10 State or Tribal government will comply  
11 with applicable Federal laws and regula-  
12 tions and how the State or Tribal govern-  
13 ment will provide assistance under its plan;

14 “(iii) a requirement that the State,  
15 Tribal, or local government comply with  
16 rules and regulations established pursuant  
17 to subsection (j); and

18 “(iv) a requirement that the Presi-  
19 dent, or the designee of the President,  
20 comply with subsection (i).

21 “(C) QUALITY ASSURANCE.—Before ap-  
22 proving an application submitted under this  
23 section, the President, or the designee of the  
24 President, shall institute adequate policies, pro-  
25 cedures, and internal controls to prevent waste,

1 fraud, abuse, and program mismanagement for  
2 this program and for programs under sub-  
3 sections (c)(1)(B), (c)(4), and (e). The Presi-  
4 dent shall monitor and conduct quality assur-  
5 ance activities on a State or Tribal govern-  
6 ment's implementation of programs under sub-  
7 sections (c)(1)(B), (c)(4), and (e). If, after ap-  
8 proving an application of a State or Tribal gov-  
9 ernment submitted under this section, the  
10 President determines that the State or Tribal  
11 government is not administering the program  
12 established by this section in a manner satisfac-  
13 tory to the President, the President shall with-  
14 draw the approval.

15 “(D) AUDITS.—The Office of the inspector  
16 general shall provide for periodic audits of the  
17 programs administered by States and Tribal  
18 governments under this subsection.

19 “(E) APPLICABLE LAWS.—All Federal  
20 laws applicable to the management, administra-  
21 tion, or contracting of the programs by the  
22 Federal Emergency Management Agency under  
23 this section shall be applicable to the manage-  
24 ment, administration, or contracting by a non-  
25 Federal entity under this section.

1           “(F) REPORT.—Not later than 18 months  
2 after the date of enactment of this paragraph,  
3 the inspector general of the Department of  
4 Homeland Security shall submit a report to the  
5 Committee on Homeland Security and Govern-  
6 mental Affairs of the Senate and the Committee  
7 on Transportation and Infrastructure of the  
8 House of Representatives on the State or Tribal  
9 government’s role to provide assistance under  
10 this section. The report shall contain an assess-  
11 ment of the effectiveness of the State or Tribal  
12 government’s role to provide assistance under  
13 this section, including—

14                   “(i) whether the State or Tribal gov-  
15 ernment’s role helped to improve the gen-  
16 eral speed of disaster recovery;

17                   “(ii) whether the State or Tribal gov-  
18 ernment providing assistance under this  
19 section had the capacity to administer this  
20 section; and

21                   “(iii) recommendations for changes to  
22 improve the program if the State or Tribal  
23 government’s role to administer the pro-  
24 grams should be continued.

1           “(G) PROHIBITION.—The President may  
2 not condition the provision of Federal assist-  
3 ance under this Act by a State or Tribal gov-  
4 ernment requesting a grant under this section.

5           “(H) MISCELLANEOUS.—

6           “(i) NOTICE AND COMMENT.—The  
7 Administrator may waive notice and com-  
8 ment rulemaking, if the Administrator de-  
9 termines doing so is necessary to expedi-  
10 tiously implement this section, and may  
11 carry out this section as a pilot program  
12 until such regulations are promulgated.

13           “(ii) FINAL RULE.—Not later than 2  
14 years after the date of enactment of this  
15 paragraph, the Administrator shall issue  
16 final regulations to implement this sub-  
17 section as amended by the Disaster Recov-  
18 ery Reform Act.

19           “(iii) WAIVER AND EXPIRATION.—The  
20 authority under clause (i) and any pilot  
21 program implemented pursuant to such  
22 clause shall expire 2 years after the date of  
23 enactment of this paragraph or upon  
24 issuance of final regulations pursuant to  
25 clause (ii), whichever occurs sooner.”.

1 **SEC. 611. ASSISTANCE TO INDIVIDUALS AND HOUSEHOLDS.**

2 Section 408(h) of the Robert T. Stafford Disaster  
3 Relief and Emergency Assistance Act (42 U.S.C. 5174(h))  
4 is amended—

5 (1) in paragraph (1), by inserting “, excluding  
6 financial assistance to rent alternate housing accom-  
7 modations under subsection (e)(1)(A)(i) and finan-  
8 cial assistance to address other needs under sub-  
9 section (e)” after “disaster”;

10 (2) by redesignating paragraph (2) as para-  
11 graph (3);

12 (3) by inserting after paragraph (1) the fol-  
13 lowing:

14 “(2) OTHER NEEDS ASSISTANCE.—The max-  
15 imum financial assistance any individual or house-  
16 hold may receive under subsection (e) shall be equiv-  
17 alent to the amount set forth in paragraph (1) with  
18 respect to a single major disaster.”;

19 (4) in paragraph (3) (as so redesignated), by  
20 striking “paragraph (1)” and inserting “paragraphs  
21 (1) and (2)”;

22 (5) by inserting after paragraph (3) (as so re-  
23 designated) the following:

24 “(4) EXCLUSION OF NECESSARY EXPENSES FOR  
25 INDIVIDUALS WITH DISABILITIES.—



1 (b) RENTAL PROPERTIES IMPACTED.—Section  
2 408(c)(1)(B)(ii)(I)(aa) of the Robert T. Stafford Disaster  
3 Relief and Emergency Assistance Act (42 U.S.C.  
4 5174(c)(1)(B)(ii)(I)(aa)) is amended to read as follows:

5 “(aa) enter into lease agree-  
6 ments with owners of multifamily  
7 rental property impacted by a  
8 major disaster or located in areas  
9 covered by a major disaster dec-  
10 laration to house individuals and  
11 households eligible for assistance  
12 under this section; and”.

13 (c) INSPECTOR GENERAL REPORT.—Not later than  
14 2 years after the date of the enactment of this Act, the  
15 inspector general of the Department of Homeland Security  
16 shall assess the use of the authority provided under section  
17 408(c)(1)(B) of the Robert T. Stafford Disaster Relief  
18 and Emergency Assistance Act (42 U.S.C.  
19 5174(c)(1)(B)), including the adequacy of any benefit-cost  
20 analysis done to justify the use of this alternative, and  
21 submit a report on the results of that review to the appro-  
22 priate committees of Congress.

23 **SEC. 613. PRIVATE NONPROFIT FACILITY.**

24 Section 102 of the Robert T. Stafford Disaster Relief  
25 and Emergency Assistance Act (42 U.S.C. 5122) is

1 amended in paragraph (11)(B) by inserting “food banks,”  
2 after “shelter workshops,”.

3 **SEC. 614. MANAGEMENT COSTS.**

4 Section 324 of the Robert T. Stafford Disaster Relief  
5 and Emergency Assistance Act (42 U.S.C. 5165b) is  
6 amended—

7 (1) in subsection (a) by striking “any adminis-  
8 trative expense, and any other expense not directly  
9 chargeable to” and inserting “direct administrative  
10 cost, and any other administrative expense associ-  
11 ated with”; and

12 (2) in subsection (b)—

13 (A) by striking “Notwithstanding” and in-  
14 serting the following:

15 “(1) IN GENERAL.—Notwithstanding”;

16 (B) by striking “establish” and inserting  
17 the following: “implement”; and

18 (C) by adding at the end the following:

19 “(2) SPECIFIC MANAGEMENT COSTS.—The Ad-  
20 ministrator shall provide the following percentage  
21 rates, in addition to the eligible project costs, to  
22 cover direct and indirect costs of administering the  
23 following programs:

24 “(A) HAZARD MITIGATION.—A grantee  
25 under section 404 may be reimbursed not more



1           than 15 percent of the total amount of the  
2           grant award under such section of which not  
3           more than 10 percent may be used by the  
4           grantee and 5 percent by the subgrantee for  
5           such costs.

6           “(B) PUBLIC ASSISTANCE.—A grantee  
7           under sections 403, 406, 407, and 502 may be  
8           reimbursed not more than 12 percent of the  
9           total award amount under such sections, of  
10          which not more than 7 percent may be used by  
11          the grantee and 5 percent by the subgrantee for  
12          such costs.”.

13 **SEC. 615. FLEXIBILITY.**

14          (a) DEFINITION.—In this section, the term “covered  
15 assistance” means assistance provided—

16           (1) under section 408 of the Robert T. Stafford  
17          Disaster Relief and Emergency Assistance Act (42  
18          U.S.C. 5174); and

19           (2) in relation to a major disaster or emergency  
20          declared by the President under section 401 or 501  
21          of the Robert T. Stafford Disaster Relief and Emer-  
22          gency Assistance Act (42 U.S.C. 5170; 42 U.S.C.  
23          5191) on or after October 28, 2012.

1 (b) WAIVER AUTHORITY.—Notwithstanding section  
2 3716(e) of title 31, United States Code, the Administrator  
3 of the Federal Emergency Management Agency—

4 (1) subject to paragraph (2), may waive a debt  
5 owed to the United States related to covered assist-  
6 ance provided to an individual or household if—

7 (A) the covered assistance was distributed  
8 based on an error by the Federal Emergency  
9 Management Agency;

10 (B) there was no fault on behalf of the  
11 debtor; and

12 (C) the collection of the debt would be  
13 against equity and good conscience; and

14 (2) may not waive a debt under paragraph (1)  
15 if the debt involves fraud, the presentation of a false  
16 claim, or misrepresentation by the debtor or any  
17 party having an interest in the claim.

18 (c) MONITORING OF COVERED ASSISTANCE DISTRIB-  
19 UTED BASED ON ERROR.—

20 (1) IN GENERAL.—The inspector general of the  
21 Department of Homeland Security shall monitor the  
22 distribution of covered assistance to individuals and  
23 households to determine the percentage of such as-  
24 sistance distributed based on an error.

1           (2) REMOVAL OF WAIVER AUTHORITY BASED  
2           ON EXCESSIVE ERROR RATE.—If the inspector gen-  
3           eral determines, with respect to any 12-month pe-  
4           riod, that the amount of covered assistance distrib-  
5           uted based on an error by the Federal Emergency  
6           Management Agency exceeds 4 percent of the total  
7           amount of covered assistance distributed—

8                   (A) the inspector general shall notify the  
9                   Administrator and publish the determination in  
10                  the Federal Register; and

11                   (B) with respect to any major disaster or  
12                  emergency declared by the President under sec-  
13                  tion 401 or section 501, respectively, of the  
14                  Robert T. Stafford Disaster Relief and Emer-  
15                  gency Assistance Act (42 U.S.C. 5170; 42  
16                  U.S.C. 5191) after the date on which the deter-  
17                  mination is published under subparagraph (A),  
18                  the authority of the Administrator to waive  
19                  debt under subsection (b) shall no longer be ef-  
20                  fective.

21 **SEC. 616. ADDITIONAL DISASTER ASSISTANCE.**

22           (a) DISASTER MITIGATION.—Section 209 of the Pub-  
23           lic Works and Economic Development Act of 1965 (42  
24           U.S.C. 3149) is amended by adding at the end the fol-  
25           lowing:

1       “(e) DISASTER MITIGATION.—In providing assist-  
2       ance pursuant to subsection (c)(2), if appropriate and as  
3       applicable, the Secretary may encourage hazard mitigation  
4       in assistance provided pursuant to such subsection.”.

5       (b) EMERGENCY MANAGEMENT ASSISTANCE COM-  
6       PACT GRANTS.—Section 661(d) of the Post-Katrina  
7       Emergency Management Reform Act of 2006 (6 U.S.C.  
8       761(d)) is amended by striking “for fiscal year 2008” and  
9       inserting “for each of fiscal years 2018 through 2022”.

10       (c) EMERGENCY MANAGEMENT PERFORMANCE  
11       GRANTS PROGRAM.—Section 662(f) of the Post-Katrina  
12       Emergency Management Reform Act of 2006 (6 U.S.C.  
13       762(f)) is amended by striking “the program” and all that  
14       follows through “2012” and inserting “the program, for  
15       each of fiscal years 2018 through 2022”.

16       (d) TECHNICAL AMENDMENT.—Section 403(a)(3) of  
17       the Robert T. Stafford Disaster Relief and Emergency As-  
18       sistance Act (42 U.S.C. 5170b(a)(3)) is amended by strik-  
19       ing the second subparagraph (J).

20       **SEC. 617. NATIONAL VETERINARY EMERGENCY TEAMS.**

21       (a) IN GENERAL.—The Administrator of the Federal  
22       Emergency Management Agency may establish one or  
23       more national veterinary emergency teams at accredited  
24       colleges of veterinary medicine.

1 (b) RESPONSIBILITIES.—A national veterinary emer-  
2 gency team shall—

3 (1) deploy with a team of the National Urban  
4 Search and Rescue Response System to assist  
5 with—

6 (A) veterinary care of canine search teams;

7 (B) locating and treating companion ani-  
8 mals, service animals, livestock, and other ani-  
9 mals; and

10 (C) surveillance and treatment of zoonotic  
11 diseases;

12 (2) recruit, train, and certify veterinary profes-  
13 sionals, including veterinary students, in accordance  
14 with an established set of plans and standard oper-  
15 ating guidelines to carry out the duties associated  
16 with planning for and responding to emergencies as  
17 described in paragraph (1);

18 (3) assist State, Tribal, and local governments  
19 and nonprofit organizations in developing emergency  
20 management and evacuation plans that account for  
21 the care and rescue of animals and in improving  
22 local readiness for providing veterinary medical re-  
23 sponse during a disaster; and

24 (4) coordinate with the Department of Home-  
25 land Security, the Department of Health and

1 Human Services, the Department of Agriculture,  
2 State, Tribal, and local governments (including de-  
3 partments of animal and human health), veterinary  
4 and health care professionals, and volunteers.

5 **SEC. 618. DISPUTE RESOLUTION PILOT PROGRAM.**

6 Section 1105(c) of the Sandy Recovery Improvement  
7 Act of 2013 (42 U.S.C. 5189a note) is amended by strik-  
8 ing “2015” and inserting “2022”.

9 **SEC. 619. UNIFIED FEDERAL ENVIRONMENTAL AND HIS-**  
10 **TORIC PRESERVATION REVIEW.**

11 (a) REVIEW AND ANALYSIS.—Not later than 180  
12 days after the date of enactment of this Act, the Adminis-  
13 trator of the Federal Emergency Management Agency  
14 shall review the Unified Federal Environmental and His-  
15 toric Preservation review process established pursuant to  
16 section 429 of the Robert T. Stafford Disaster Relief and  
17 Emergency Assistance Act (42 U.S.C. 5189g), and submit  
18 a report to the Committee on Transportation and Infra-  
19 structure of the House of Representatives and the Com-  
20 mittee on Homeland Security and Governmental Affairs  
21 of the Senate that includes the following:

22 (1) An analysis of whether and how the unified  
23 process has expedited the interagency review process  
24 to ensure compliance with the environmental and

1 historic requirements under Federal law relating to  
2 disaster recovery projects.

3 (2) A survey and analysis of categorical exclu-  
4 sions used by other Federal agencies that may be  
5 applicable to any activity related to a Presidentially  
6 declared major disaster or emergency under such  
7 Act.

8 (3) Recommendations on any further actions,  
9 including any legislative proposals, needed to expe-  
10 dite and streamline the review process.

11 (b) REGULATIONS.—After completing the review,  
12 survey, and analyses under subsection (a), but not later  
13 than 2 years after the date of enactment of this Act, and  
14 after providing notice and opportunity for public comment,  
15 the Administrator shall issue regulations to implement any  
16 regulatory recommendations, including any categorical ex-  
17 clusions identified under subsection (a), to the extent that  
18 the categorical exclusions meet the criteria for a categor-  
19 ical exclusion under section 1508.4 of title 40, Code of  
20 Federal Regulations, and section II of DHS Instruction  
21 Manual 023–01–001–01.

22 **SEC. 620. CLOSEOUT INCENTIVES.**

23 (a) FACILITATING CLOSEOUT.—Section 705 of the  
24 Robert T. Stafford Disaster Relief and Emergency Assist-

1 ance Act (42 U.S.C. 5205) is amended by adding at the  
2 end the following:

3 “(d) FACILITATING CLOSEOUT.—

4 “(1) INCENTIVES.—The Administrator may de-  
5 velop incentives and penalties that encourage State,  
6 Tribal, or local governments to close out expendi-  
7 tures and activities on a timely basis related to dis-  
8 aster or emergency assistance.

9 “(2) AGENCY REQUIREMENTS.—The Agency  
10 shall, consistent with applicable regulations and re-  
11 quired procedures, meet its responsibilities to im-  
12 prove closeout practices and reduce the time to close  
13 disaster program awards.”.

14 (b) REGULATIONS.—The Administrator shall issue  
15 regulations to implement this section.

16 **SEC. 621. PERFORMANCE OF SERVICES.**

17 Section 306 of the Robert T. Stafford Disaster Relief  
18 and Emergency Assistance Act (42 U.S.C. 5149) is  
19 amended by adding at the end the following:

20 “(c) The Administrator of the Federal Emergency  
21 Management Agency is authorized to appoint temporary  
22 personnel, after serving continuously for 3 years, to posi-  
23 tions in the Agency in the same manner that competitive  
24 service employees with competitive status are considered  
25 for transfer, reassignment, or promotion to such positions.



1 An individual appointed under this subsection shall be-  
2 come a career-conditional employee, unless the employee  
3 has already completed the service requirements for career  
4 tenure.”.

5 **SEC. 622. STUDY TO STREAMLINE AND CONSOLIDATE IN-**  
6 **FORMATION COLLECTION.**

7 Not later than 1 year after the date of enactment  
8 of this Act, the Administrator of the Federal Emergency  
9 Management Agency shall—

10 (1) in coordination with the Small Business Ad-  
11 ministration, the Department of Housing and Urban  
12 Development, and other appropriate agencies, con-  
13 duct a study and develop a plan, consistent with law,  
14 under which the collection of information from dis-  
15 aster assistance applicants and grantees will be  
16 modified, streamlined, expedited, efficient, flexible,  
17 consolidated, and simplified to be less burdensome,  
18 duplicative, and time consuming for applicants and  
19 grantees;

20 (2) in coordination with the Small Business Ad-  
21 ministration, the Department of Housing and Urban  
22 Development, and other appropriate agencies, de-  
23 velop a plan for the regular collection and reporting  
24 of information on Federal disaster assistance award-  
25 ed, including the establishment and maintenance of

1 a website for presenting the information to the pub-  
2 lic; and

3 (3) submit the plans to the Committee on  
4 Transportation and Infrastructure of the House of  
5 Representatives and the Committee on Homeland  
6 Security and Governmental Affairs of the Senate.

7 **SEC. 623. AGENCY ACCOUNTABILITY.**

8 Title IV of the Robert T. Stafford Disaster Relief and  
9 Emergency Assistance Act is amended by adding at the  
10 end the following:

11 **“SEC. 430. AGENCY ACCOUNTABILITY.**

12 “(a) PUBLIC ASSISTANCE.—Not later than 5 days  
13 after an award of a public assistance grant is made under  
14 section 406 that is in excess of \$1,000,000, the Adminis-  
15 trator shall publish on the Agency’s website the specifics  
16 of each such grant award, including—

17 “(1) identifying the Federal Emergency Man-  
18 agement Agency Region;

19 “(2) the disaster or emergency declaration  
20 number;

21 “(3) the State, county, and applicant name;

22 “(4) if the applicant is a private nonprofit orga-  
23 nization;

24 “(5) the damage category code;

1           “(6) the amount of the Federal share obligated;  
2           and

3           “(7) the date of the award.

4           “(b) MISSION ASSIGNMENTS.—

5           “(1) IN GENERAL.—Not later than 5 days after  
6           the issuance of a mission assignment or mission as-  
7           signment task order, the Administrator shall publish  
8           on the Agency’s website any mission assignment or  
9           mission assignment task order to another Federal  
10          department or agency regarding a major disaster in  
11          excess of \$1,000,000, including—

12                   “(A) the name of the impacted State or  
13                   Tribe;

14                   “(B) the disaster declaration for such  
15                   State or Tribe;

16                   “(C) the assigned agency;

17                   “(D) the assistance requested;

18                   “(E) a description of the disaster;

19                   “(F) the total cost estimate;

20                   “(G) the amount obligated;

21                   “(H) the State or Tribal cost share, if ap-  
22                   plicable;

23                   “(I) the authority under which the mission  
24                   assignment or mission assignment task order  
25                   was directed; and

1           “(J) if applicable, the date a State or  
2           Tribe requested the mission assignment.

3           “(2) RECORDING CHANGES.—Not later than 10  
4           days after the last day of each month until a mission  
5           assignment or mission assignment task order de-  
6           scribed in paragraph (1) is completed and closed  
7           out, the Administrator shall update any changes to  
8           the total cost estimate and the amount obligated.

9           “(c) DISASTER RELIEF MONTHLY REPORT.—Not  
10          later than 10 days after the first day of each month, the  
11          Administrator shall publish on the Agency’s website re-  
12          ports, including a specific description of the methodology  
13          and the source data used in developing such reports, in-  
14          cluding—

15                 “(1) an estimate of the amounts for the fiscal  
16                 year covered by the President’s most recent budget  
17                 pursuant to section 1105(a) of title 31, United  
18                 States Code, including—

19                         “(A) the unobligated balance of funds to  
20                         be carried over from the prior fiscal year to the  
21                         budget year;

22                         “(B) the unobligated balance of funds to  
23                         be carried over from the budget year to the  
24                         budget year plus 1;

1           “(C) the amount of obligations for non-  
2 catastrophic events for the budget year;

3           “(D) the amount of obligations for the  
4 budget year for catastrophic events delineated  
5 by event and by State;

6           “(E) the total amount that has been pre-  
7 viously obligated or will be required for cata-  
8 strophic events delineated by event and by State  
9 for all prior years, the current fiscal year, the  
10 budget year, and each fiscal year thereafter;

11           “(F) the amount of previously obligated  
12 funds that will be recovered for the budget  
13 year;

14           “(G) the amount that will be required for  
15 obligations for emergencies, as described in sec-  
16 tion 102(1), major disasters, as described in  
17 section 102(2), fire management assistance  
18 grants, as described in section 420, surge ac-  
19 tivities, and disaster readiness and support ac-  
20 tivities; and

21           “(H) the amount required for activities not  
22 covered under section 251(b)(2)(D)(iii) of the  
23 Balanced Budget and Emergency Deficit Con-  
24 trol Act of 1985 (2 U.S.C. 901(b)(2)(D)(iii));  
25 and

1           “(2) an estimate or actual amounts, if available,  
2 of the following for the current fiscal year shall be  
3 submitted not later than the fifth day of each  
4 month, published by the Administrator on the Agen-  
5 cy’s website not later than the fifth day of each  
6 month:

7           “(A) A summary of the amount of appro-  
8 priations made available by source, the trans-  
9 fers executed, the previously allocated funds re-  
10 covered, and the commitments, allocations, and  
11 obligations made.

12           “(B) A table of disaster relief activity de-  
13 linedated by month, including—

14           “(i) the beginning and ending bal-  
15 ances;

16           “(ii) the total obligations to include  
17 amounts obligated for fire assistance,  
18 emergencies, surge, and disaster support  
19 activities;

20           “(iii) the obligations for catastrophic  
21 events delineated by event and by State;  
22 and

23           “(iv) the amount of previously obli-  
24 gated funds that are recovered.

1           “(C) A summary of allocations, obligations,  
2           and expenditures for catastrophic events delin-  
3           eated by event.

4           “(D) The cost of the following categories  
5           of spending:

6                   “(i) Public assistance.

7                   “(ii) Individual assistance.

8                   “(iii) Mitigation.

9                   “(iv) Administrative.

10                  “(v) Operations.

11                  “(vi) Any other relevant category (in-  
12                  cluding emergency measures and disaster  
13                  resources) delineated by disaster.

14           “(E) The date on which funds appro-  
15           priated will be exhausted.

16           “(d) CONTRACTS.—

17                   “(1) INFORMATION.—Not later than 10 days  
18                   after the first day of each month, the Administrator  
19                   shall publish on the Agency’s website the specifics of  
20                   each contract in excess of \$1,000,000 that the Agen-  
21                   cy enters into, including—

22                           “(A) the name of the party;

23                           “(B) the date the contract was awarded;

24                           “(C) the amount and scope of the contract;

1           “(D) if the contract was awarded through  
2 competitive bidding process;

3           “(E) if no competitive bidding process was  
4 used, the reason why competitive bidding was  
5 not used; and

6           “(F) the authority used to bypass the com-  
7 petitive bidding process.

8           The information shall be delineated by disaster, if  
9 applicable, and specify the damage category code, if  
10 applicable.

11           “(2) REPORT.—Not later than 10 days after  
12 the last day of the fiscal year, the Administrator  
13 shall provide a report to the appropriate committees  
14 of Congress summarizing the following information  
15 for the preceding fiscal year:

16           “(A) The number of contracts awarded  
17 without competitive bidding.

18           “(B) The reasons why a competitive bid-  
19 ding process was not used.

20           “(C) The total amount of contracts award-  
21 ed with no competitive bidding.

22           “(D) The damage category codes, if appli-  
23 cable, for contracts awarded without competi-  
24 tive bidding.”.



1 **SEC. 624. AUDIT OF CONTRACTS.**

2 Notwithstanding any other provision of law, the Ad-  
3 ministrator of the Federal Emergency Management Agen-  
4 cy shall not reimburse a State, Tribe, or local government  
5 or the owner or operator of a private nonprofit facility for  
6 any activities made pursuant to a contract entered into  
7 after August 1, 2017, that prohibits the Administrator or  
8 the Comptroller General of the United States from audit-  
9 ing or otherwise reviewing all aspects relating to the con-  
10 tract.

11 **SEC. 625. INSPECTOR GENERAL AUDIT OF FEMA CON-**  
12 **TRACTS FOR TARPS AND PLASTIC SHEETING.**

13 (a) IN GENERAL.—Not later than 30 days after the  
14 date of enactment of this Act, the inspector general of the  
15 Department of Homeland Security shall initiate an audit  
16 of the contracts awarded by the Federal Emergency Man-  
17 agement Agency (in this section referred to as “FEMA”)  
18 for tarps and plastic sheeting for the Commonwealth of  
19 Puerto Rico and the United States Virgin Islands in re-  
20 sponse to Hurricane Irma and Hurricane Maria.

21 (b) CONSIDERATIONS.—In carrying out the audit  
22 under subsection (a), the inspector general shall review—

23 (1) the contracting process used by FEMA to  
24 evaluate offerors and award the relevant contracts to  
25 contractors;

1           (2) FEMA’s assessment of the past perform-  
2           ance of the contractors, including any historical in-  
3           formation showing that the contractors had sup-  
4           ported large-scale delivery quantities in the past;

5           (3) FEMA’s assessment of the capacity of the  
6           contractors to carry out the relevant contracts, in-  
7           cluding with respect to inventory, production, and fi-  
8           nancial capabilities;

9           (4) how FEMA ensured that the contractors  
10          met the terms of the relevant contracts; and

11          (5) whether the failure of the contractors to  
12          meet the terms of the relevant contracts and  
13          FEMA’s subsequent cancellation of the relevant con-  
14          tracts affected the provision of tarps and plastic  
15          sheeting to the Commonwealth of Puerto Rico and  
16          the United States Virgin Islands.

17          (c) REPORT.—Not later than 270 days after the date  
18          of initiation of the audit under subsection (a), the inspec-  
19          tor general shall submit to the Committee on Transpor-  
20          tation and Infrastructure of the House of Representatives  
21          and the Committee on Homeland Security and Govern-  
22          mental Affairs of the Senate a report on the results of  
23          the audit, including findings and recommendations.

1 **SEC. 626. RELIEF ORGANIZATIONS.**

2 Section 309 of the Robert T. Stafford Disaster Relief  
3 and Emergency Assistance Act (42 U.S.C. 5152) is  
4 amended—

5 (1) in subsection (a), by striking “and other re-  
6 lief or” and inserting “long-term recovery groups,  
7 domestic hunger relief, and other relief, or”; and

8 (2) in subsection (b), by striking “and other re-  
9 lief or” and inserting “long-term recovery groups,  
10 domestic hunger relief, and other relief, or”.

11 **SEC. 627. GUIDANCE ON INUNDATED AND SUBMERGED**  
12 **ROADS.**

13 The Administrator of the Federal Emergency Man-  
14 agement Agency, in coordination with the Administrator  
15 of the Federal Highway Administration, shall develop and  
16 issue guidance for State, local, and Tribal governments  
17 regarding repair, restoration, and replacement of inun-  
18 dated and submerged roads damaged or destroyed by a  
19 major disaster, and for associated expenses incurred by  
20 the Government, with respect to roads eligible for assist-  
21 ance under section 406 of the Robert T. Stafford Disaster  
22 Relief and Emergency Assistance Act (42 U.S.C. 5172).

23 **SEC. 628. AUTHORITIES.**

24 Notwithstanding any other provision of law, the non-  
25 federally funded actions of private parties and State, local,  
26 or Tribal governments, on State, local, Tribal, and private

1 land, and the effects of those actions, shall not be attrib-  
2 uted to the Federal Emergency Management Agency’s ac-  
3 tions under the National Flood Insurance Act of 1968 (42  
4 U.S.C. 4001 et seq.), the Flood Disaster Protection Act  
5 of 1973 (42 U.S.C. 4002 et seq.), the Biggert-Waters  
6 Flood Insurance Reform Act of 2012 (subtitle A of title  
7 II of division F of Public Law 112–141; 126 Stat. 916),  
8 and the Homeowner Flood Insurance Affordability Act of  
9 2014 (Public Law 113–89; 128 Stat. 1020) for the pur-  
10 poses of section 7 (16 U.S.C. 1536) and section 9 (16  
11 U.S.C. 1538) of the Endangered Species Act. Actions  
12 taken under the National Flood Insurance Act of 1968,  
13 the Flood Disaster Protection Act of 1973, the Biggert-  
14 Waters Flood Insurance Reform Act of 2012, and the  
15 Homeowner Flood Insurance Affordability Act of 2014,  
16 that may influence private actions do not create a Federal  
17 nexus for the purpose of applying the requirements of sec-  
18 tion 7 of the Endangered Species Act of 1973 (16 U.S.C.  
19 1536).

20 **SEC. 629. RECOUPMENT OF CERTAIN ASSISTANCE PROHIB-**  
21 **ITED.**

22 (a) IN GENERAL.—Notwithstanding section 3716(e)  
23 of title 31, United States Code, and unless there is evi-  
24 dence of civil or criminal fraud, the Federal Emergency  
25 Management Agency may not take any action to recoup

1 covered assistance from the recipient of such assistance  
2 if the receipt of such assistance occurred on a date that  
3 is more than 3 years before the date on which the Federal  
4 Emergency Management Agency first provides to the re-  
5 cipient written notification of an intent to recoup.

6 (b) COVERED ASSISTANCE DEFINED.—In this sec-  
7 tion, the term “covered assistance” means assistance pro-  
8 vided—

9 (1) under section 408 of the Robert T. Stafford  
10 Disaster Relief and Emergency Assistance Act (42  
11 U.S.C. 5174); and

12 (2) in relation to a major disaster or emergency  
13 declared by the President under section 401 or 501  
14 of such Act (42 U.S.C. 5170; 42 U.S.C. 5191) on  
15 or after January 1, 2012.

16 **SEC. 630. STATUTE OF LIMITATIONS.**

17 (a) IN GENERAL.—Section 705 of the Robert T.  
18 Stafford Disaster Relief and Emergency Assistance Act  
19 (42 U.S.C. 5205) is amended—

20 (1) in subsection (a)(1)—

21 (A) by striking “Except” and inserting  
22 “Notwithstanding section 3716(e) of title 31,  
23 United States Code, and except”; and

1 (B) by striking “report for the disaster or  
2 emergency” and inserting “report for project  
3 completion as certified by the grantee”; and  
4 (2) in subsection (b)—

5 (A) in paragraph (1) by striking “report  
6 for the disaster or emergency” and inserting  
7 “report for project completion as certified by  
8 the grantee”; and

9 (B) in paragraph (3) by inserting “for  
10 project completion as certified by the grantee”  
11 after “final expenditure report”.

12 (b) APPLICABILITY.—

13 (1) IN GENERAL.—With respect to disaster or  
14 emergency assistance provided to a State or local  
15 government on or after January 1, 2004—

16 (A) no administrative action may be taken  
17 to recover a payment of such assistance after  
18 the date of enactment of this Act if the action  
19 is prohibited under section 705(a)(1) of the  
20 Robert T. Stafford Disaster Relief and Emer-  
21 gency Assistance Act (42 U.S.C. 5205(a)(1)),  
22 as amended by subsection (a); and

23 (B) any administrative action to recover a  
24 payment of such assistance that is pending on  
25 such date of enactment shall be terminated if

1 the action is prohibited under section 705(a)(1)  
2 of that Act, as amended by subsection (a).

3 (2) LIMITATION.—This section, including the  
4 amendments made by this section, may not be con-  
5 strued to invalidate or otherwise affect any adminis-  
6 tration action completed before the date of enact-  
7 ment of this Act.

8 **SEC. 631. TECHNICAL ASSISTANCE AND RECOMMENDA-**  
9 **TIONS.**

10 (a) TECHNICAL ASSISTANCE.—The Administrator of  
11 the Federal Emergency Management Agency shall provide  
12 technical assistance to a common interest community that  
13 provides essential services of a governmental nature on ac-  
14 tions that a common interest community may take in  
15 order to be eligible to receive reimbursement from a grant-  
16 ee that receives funds from the Agency for certain activi-  
17 ties performed after an event that results in a disaster  
18 declaration.

19 (b) RECOMMENDATIONS.—Not later than 90 days  
20 after the date of enactment of this Act, the Administrator  
21 shall provide to the Committee on Transportation and In-  
22 frastructure of the House of Representatives and the Com-  
23 mittee on Homeland Security and Governmental Affairs  
24 of the Senate a legislative proposal on how to provide eligi-

1 bility for disaster assistance with respect to common areas  
2 of condominiums and housing cooperatives.

3 **SEC. 632. GUIDANCE ON HAZARD MITIGATION ASSISTANCE.**

4 (a) IN GENERAL.—Not later than 180 days after the  
5 date of enactment of this Act, the Administrator of the  
6 Federal Emergency Management Agency shall issue guid-  
7 ance regarding the acquisition of property for open space  
8 as a mitigation measure under section 404 of the Robert  
9 T. Stafford Disaster Relief and Emergency Assistance Act  
10 (42 U.S.C. 5170c) that includes—

11 (1) a process by which the State hazard mitiga-  
12 tion officer appointed for such an acquisition shall,  
13 not later than 60 days after the applicant for assist-  
14 ance enters into an agreement with the Adminis-  
15 trator regarding the acquisition, provide written no-  
16 tification to each affected unit of local government  
17 for such acquisition that includes—

18 (A) the location of the acquisition;

19 (B) the State-local assistance agreement  
20 for the hazard mitigation grant program;

21 (C) a description of the acquisition; and

22 (D) a copy of the deed restriction; and

23 (2) recommendations for entering into and im-  
24 plementing a memorandum of understanding be-  
25 tween units of local government and covered entities



1 that includes provisions to allow an affected unit of  
2 local government notified under paragraph (1) to—

3 (A) use and maintain the open space cre-  
4 ated by such a project, consistent with section  
5 404 (including related regulations, standards,  
6 and guidance) and consistent with all adjoining  
7 property, subject to the notification of the ad-  
8 joining property, so long as the cost of the  
9 maintenance is borne by the local government;  
10 and

11 (B) maintain the open space pursuant to  
12 standards exceeding any local government  
13 standards defined in the agreement with the  
14 Administrator described under paragraph (1).

15 (b) DEFINITIONS.—In this section the following defi-  
16 nitions apply:

17 (1) AFFECTED UNIT OF LOCAL GOVERN-  
18 MENT.—The term “affected unit of local govern-  
19 ment” means any entity covered by the definition of  
20 local government in section 102 of the Robert T.  
21 Stafford Disaster Relief and Emergency Assistance  
22 Act (42 U.S.C. 5122), that has jurisdiction over the  
23 property subject to the acquisition described in sub-  
24 section (a).

1           (2) COVERED ENTITY.—The term “covered en-  
2           tity” means—

3                   (A) the grantee or subgrantee receiving as-  
4                   sistance for an open space project described in  
5                   subsection (a);

6                   (B) the State in which such project is lo-  
7                   cated; and

8                   (C) the applicable Regional Administrator  
9                   of the Federal Emergency Management Agency.

10 **SEC. 633. LOCAL IMPACT.**

11           In making recommendations to the President regard-  
12           ing a major disaster declaration, the Administrator of the  
13           Federal Emergency Management Agency shall give great-  
14           er weight and consideration to severe local impact or re-  
15           cent multiple disasters. Further, the Administrator shall  
16           make corresponding adjustments to the Agency’s policies  
17           and regulations regarding such consideration. Not later  
18           than 1 year after the date of enactment of this section,  
19           the Administrator shall report to the Committee on Trans-  
20           portation and Infrastructure of the House of Representa-  
21           tives and the Committee on Homeland Security and Gov-  
22           ernmental Affairs of the Senate on the changes made to  
23           regulations and policies and the number of declarations  
24           that have been declared based on the new criteria.

1 **SEC. 634. ADDITIONAL HAZARD MITIGATION ACTIVITIES.**

2 Section 404 of the Robert T. Stafford Disaster Relief  
3 and Emergency Assistance Act (42 U.S.C. 5170e) is fur-  
4 ther amended by adding at the end the following:

5 “(g) USE OF ASSISTANCE.—Recipients of hazard  
6 mitigation assistance provided under this section and sec-  
7 tion 203 may use the assistance to conduct activities to  
8 help reduce the risk of future damage, hardship, loss, or  
9 suffering in any area affected by earthquake hazards, in-  
10 cluding—

11 “(1) improvements to regional seismic networks  
12 in support of building a capability for earthquake  
13 early warning;

14 “(2) improvements to geodetic networks in sup-  
15 port of building a capability for earthquake early  
16 warning; and

17 “(3) improvements to seismometers, Global Po-  
18 sitioning System receivers, and associated infrastruc-  
19 ture in support of building a capability for earth-  
20 quake early warning.”.

21 **SEC. 635. NATIONAL PUBLIC INFRASTRUCTURE**  
22 **PREDISASTER HAZARD MITIGATION.**

23 (a) PREDISASTER HAZARD MITIGATION.—Section  
24 203 of the Robert T. Stafford Disaster Relief and Emer-  
25 gency Assistance Act (42 U.S.C. 5133) is amended—

1           (1) in subsection (e) by inserting “Public Infra-  
2 structure” after “the National”;

3           (2) in subsection (e)(1)(B)—

4                 (A) by striking “or” at the end of clause  
5 (ii);

6                 (B) by striking the period at the end of  
7 clause (iii) and inserting “; or”; and

8                 (C) by adding at the end the following:

9                         “(iv) to establish and carry out en-  
10                         forcement activities to implement the latest  
11                         published editions of relevant consensus-  
12                         based codes, specifications, and standards  
13                         that incorporate the latest hazard-resistant  
14                         designs and establish minimum acceptable  
15                         criteria for the design, construction, and  
16                         maintenance of residential structures and  
17                         facilities that may be eligible for assistance  
18                         under this Act for the purpose of pro-  
19                         tecting the health, safety, and general wel-  
20                         fare of the buildings’ users against disas-  
21                         ters.”;

22           (3) in subsection (f)—

23                 (A) in paragraph (1) by inserting “for  
24 mitigation activities that are cost effective”  
25 after “competitive basis”; and

1 (B) by adding at the end the following:

2 “(3) REDISTRIBUTION OF UNOBLIGATED  
3 AMOUNTS.—The President may—

4 “(A) withdraw amounts of financial assist-  
5 ance made available to a State (including  
6 amounts made available to local governments of  
7 a State) under this subsection that remain un-  
8 obligated by the end of the third fiscal year  
9 after the fiscal year for which the amounts were  
10 allocated; and

11 “(B) in the fiscal year following a fiscal  
12 year in which amounts were withdrawn under  
13 subparagraph (A), add the amounts to any  
14 other amounts available to be awarded on a  
15 competitive basis pursuant to paragraph (1).”;  
16 (4) in subsection (g)—

17 (A) in paragraph (9) by striking “and” at  
18 the end;

19 (B) by redesignating paragraph (10) as  
20 paragraph (12); and

21 (C) by adding after paragraph (9) the fol-  
22 lowing:

23 “(10) the extent to which the State or local  
24 government has facilitated the adoption and enforce-  
25 ment of the latest published editions of relevant con-

1       sensus-based codes, specifications, and standards  
2       that incorporate the latest hazard-resistant designs  
3       and establish criteria for the design, construction,  
4       and maintenance of residential structures and facili-  
5       ties that may be eligible for assistance under this  
6       Act for the purpose of protecting the health, safety,  
7       and general welfare of the buildings' users against  
8       disasters;

9               “(11) the extent to which the assistance will  
10       fund activities that increase the level of resiliency;  
11       and”;

12               (5) by striking subsection (i) and inserting the  
13       following:

14       “(i)     NATIONAL     PUBLIC     INFRASTRUCTURE  
15     PREDISASTER MITIGATION ASSISTANCE.—

16               “(1) IN GENERAL.—The President may set  
17       aside from the Disaster Relief Fund, with respect to  
18       each major disaster, an amount equal to 6 percent  
19       of the estimated aggregate amount of the grants to  
20       be made pursuant to sections 403, 406, 407, 408,  
21       410, and 416 for the major disaster in order to pro-  
22       vide technical and financial assistance under this  
23       section.

24               “(2) ESTIMATED AGGREGATE AMOUNT.—Not  
25       later than 180 days after each major disaster dec-

1 laration pursuant to this Act, the estimated aggregate amount of grants for purposes of paragraph (1)  
2 shall be determined by the President and such estimated amount need not be reduced, increased, or  
3 changed due to variations in estimates.  
4

5  
6 “(3) NO REDUCTION IN AMOUNTS.—The amount set aside pursuant to paragraph (1) shall  
7 not reduce the amounts otherwise made available for  
8 sections 403, 404, 406, 407, 408, 410, and 416  
9 under this Act.”; and  
10

11 (6) by striking subsections (j) and (m) and re-  
12 designating subsections (k), (l), and (n) as sub-  
13 sections (j), (k), and (l), respectively.

14 (b) APPLICABILITY.—The amendments made to sec-  
15 tion 203 of the Robert T. Stafford Disaster Relief and  
16 Emergency Assistance Act (42 U.S.C. 5133) by para-  
17 graphs (3) and (5) of subsection (a) shall apply to funds  
18 appropriated after the date of enactment of this Act.

19 **SEC. 636. ADDITIONAL MITIGATION ACTIVITIES.**

20 (a) HAZARD MITIGATION CLARIFICATION.—Section  
21 404(a) of the Robert T. Stafford Disaster Relief and  
22 Emergency Assistance Act (42 U.S.C. 5170c(a)) is  
23 amended by striking the first sentence and inserting the  
24 following: “The President may contribute up to 75 percent  
25 of the cost of hazard mitigation measures which the Presi-

1 dent has determined are cost effective and which substan-  
2 tially reduce the risk of, or increase resilience to, future  
3 damage, hardship, loss, or suffering in any area affected  
4 by a major disaster.”.

5 (b) ELIGIBLE COST.—Section 406(e)(1)(A) of such  
6 Act (42 U.S.C. 5172(e)(1)(A)) is amended—

7 (1) in the matter preceding clause (i), by insert-  
8 ing after “section,” the following: “for disasters de-  
9 clared on or after August 1, 2017, or a disaster in  
10 which a cost estimate has not yet been finalized for  
11 a project,”;

12 (2) in clause (i), by striking “and”;

13 (3) in clause (ii)—

14 (A) by striking “codes, specifications, and  
15 standards” and inserting “the latest published  
16 editions of relevant consensus-based codes,  
17 specifications, and standards that incorporate  
18 the latest hazard-resistant designs and establish  
19 minimum acceptable criteria for the design,  
20 construction, and maintenance of residential  
21 structures and facilities that may be eligible for  
22 assistance under this Act for the purposes of  
23 protecting the health, safety, and general wel-  
24 fare of a facility’s users against disasters”;



1 (B) by striking “applicable at the time at  
2 which the disaster occurred”; and

3 (C) by striking the period at the end and  
4 inserting “; and”; and

5 (4) by adding at the end the following:

6 “(iii) in a manner that allows the fa-  
7 cility to meet the definition of resilient de-  
8 veloped pursuant to this subsection.”.

9 (c) OTHER ELIGIBLE COST.—Section 406(e)(1) of  
10 such Act (42 U.S.C. 5172(e)(1)) is further amended by  
11 inserting at the end the following:

12 “(C) CONTRIBUTIONS.—Contributions for  
13 the eligible cost made under this section may be  
14 provided on an actual cost basis or on cost-esti-  
15 mation procedures.”.

16 (d) NEW RULES.—Section 406(e) of such Act (42  
17 U.S.C. 5172(e)) is further amended by adding at the end  
18 the following:

19 “(5) NEW RULES.—

20 “(A) IN GENERAL.—Not later than 18  
21 months after the date of enactment of this  
22 paragraph, the President, acting through the  
23 Administrator of the Federal Emergency Man-  
24 agement Agency, shall issue a final rulemaking

1 that defines the terms ‘resilient’ and ‘resiliency’  
2 for purposes of this subsection.

3 “(B) INTERIM GUIDANCE.—Not later than  
4 60 days after the date of enactment of this  
5 paragraph, the Administrator shall issue in-  
6 terim guidance to implement this subsection.  
7 Such interim guidance shall expire 18 months  
8 after the date of enactment of this paragraph  
9 or upon issuance of final regulations pursuant  
10 to subparagraph (A), whichever occurs first.

11 “(C) GUIDANCE.—Not later than 90 days  
12 after the date on which the Administrator  
13 issues the final rulemaking under this para-  
14 graph, the Administrator shall issue any nec-  
15 essary guidance related to the rulemaking.

16 “(D) REPORT.—Not later than 2 years  
17 after the date of enactment of this paragraph,  
18 the Administrator shall submit to Congress a  
19 report summarizing the regulations and guid-  
20 ance issued pursuant to this paragraph.”.

21 (e) CONFORMING AMENDMENT.—Section 205(d)(2)  
22 of the Disaster Mitigation Act of 2000 (Public Law 106–  
23 390) is amended by inserting “(B)” after “except that  
24 paragraph (1)”.

1       **TITLE VII—FLIGHT R&D ACT**  
2       **Subtitle A—General Provisions**

3       **SEC. 701. SHORT TITLE.**

4           This title may be cited as the “FAA Leadership in  
5       Groundbreaking High-Tech Research and Development  
6       Act” or the “FLIGHT R&D Act”.

7       **SEC. 702. DEFINITIONS.**

8           In this title, the following definitions apply:

9           (1) ADMINISTRATOR.—The term “Adminis-  
10       trator” means the Administrator of the Federal  
11       Aviation Administration.

12          (2) FAA.—The term “FAA” means the Fed-  
13       eral Aviation Administration.

14          (3) NASA.—The term “NASA” means the Na-  
15       tional Aeronautics and Space Administration.

16          (4) SECRETARY.—The term “Secretary” means  
17       the Secretary of Transportation.

18       **SEC. 703. AUTHORIZATION OF APPROPRIATIONS.**

19          (a) AUTHORIZATIONS.—Section 48102(a) of title 49,  
20       United States Code, is amended—

21           (1) in the matter before paragraph (1) by strik-  
22       ing “and, for each of fiscal years 2012 through  
23       2015, under subsection (g)”;

24           (2) at the end of paragraph (9), by striking  
25       “and”; and

1           (3) by striking paragraph (10) and inserting  
2 the following:

3           “(10) for fiscal year 2018, \$181,000,000, in-  
4 cluding—

5           “(A) \$128,500,000 for Safety Research  
6 and Development programs, including—

7           “(i) Fire Research and Safety;

8           “(ii) Propulsion and Fuel Systems;

9           “(iii) Advanced Materials/Structural  
10 Safety;

11           “(iv) Aircraft Icing/Digital System  
12 Safety;

13           “(v) Continued Airworthiness;

14           “(vi) Aircraft Catastrophic Failure  
15 Prevention Research;

16           “(vii) Flightdeck/Maintenance/System  
17 Integration Human Factors;

18           “(viii) System Safety Management;

19           “(ix) Air Traffic Control/Technical  
20 Operations Human Factors;

21           “(x) Aeromedical Research;

22           “(xi) Weather Program;

23           “(xii) Unmanned Aircraft Systems  
24 Research;

1                   “(xiii) NextGen–Alternative Fuels for  
2                   General Aviation;

3                   “(xiv) Joint Planning and Develop-  
4                   ment Office;

5                   “(xv) Ocean and Other Remote Loca-  
6                   tions ATS Research Program;

7                   “(xvi) Cybersecurity Research Pro-  
8                   gram;

9                   “(xvii) Cybersecurity Threat Modeling  
10                  Program;

11                  “(xviii) Single Piloted Commercial  
12                  Cargo Aircraft Program; and

13                  “(xix) UAV-Manned Aircraft Collision  
14                  Research Program;

15                  “(B) \$26,000,000 for Economic Competi-  
16                  tiveness Research and Development programs,  
17                  including—

18                         “(i) NextGen–Wake Turbulence;

19                         “(ii) NextGen–Air Ground Integration  
20                         Human Factors;

21                         “(iii) Next Gen–Weather Technology  
22                         in the Cockpit; and

23                         “(iv) Commercial Space Transpor-  
24                         tation Safety;

1           “(C) \$20,000,000 for Environmental Sus-  
2           tainability Research and Development pro-  
3           grams, including—

4                   “(i) Environment and Energy; and

5                   “(ii) NextGen–Environmental Re-  
6                   search–Aircraft Technologies, Fuels and  
7                   Metrics; and

8           “(D) \$6,500,000 for Mission Support pro-  
9           grams, including—

10                   “(i) System Planning and Resource  
11                   Management; and

12                   “(ii) William J. Hughes Technical  
13                   Center Laboratory Facility;

14           “(11) for fiscal year 2019, \$186,000,000, in-  
15           cluding—

16                   “(A) \$131,000,000 for Safety Research  
17                   and Development programs, including—

18                   “(i) Fire Research and Safety;

19                   “(ii) Propulsion and Fuel Systems;

20                   “(iii) Advanced Materials/Structural  
21                   Safety;

22                   “(iv) Aircraft Icing/Digital System  
23                   Safety;

24                   “(v) Continued Airworthiness;

- 1                   “(vi) Aircraft Catastrophic Failure  
2 Prevention Research;
- 3                   “(vii) Flightdeck/Maintenance/System  
4 Integration Human Factors;
- 5                   “(viii) System Safety Management;
- 6                   “(ix) Air Traffic Control/Technical  
7 Operations Human Factors;
- 8                   “(x) Aeromedical Research;
- 9                   “(xi) Weather Program;
- 10                  “(xii) Unmanned Aircraft Systems  
11 Research;
- 12                  “(xiii) NextGen–Alternative Fuels for  
13 General Aviation;
- 14                  “(xiv) Joint Planning and Develop-  
15 ment Office;
- 16                  “(xv) Ocean and Other Remote Loca-  
17 tions ATS Research Program;
- 18                  “(xvi) Cybersecurity Research Pro-  
19 gram;
- 20                  “(xvii) Cybersecurity Threat Modeling  
21 Program;
- 22                  “(xviii) Single Piloted Commercial  
23 Cargo Aircraft Program; and
- 24                  “(xix) UAV-Manned Aircraft Collision  
25 Research Program;

1           “(B) \$28,000,000 for Economic Competi-  
2           tiveness Research and Development programs,  
3           including—

4                   “(i) NextGen–Wake Turbulence;

5                   “(ii) NextGen–Air Ground Integration  
6           Human Factors;

7                   “(iii) Next Gen–Weather Technology  
8           in the Cockpit; and

9                   “(iv) Commercial Space Transpor-  
10          tation Safety;

11           “(C) \$20,000,000 for Environmental Sus-  
12          tainability Research and Development pro-  
13          grams, including—

14                   “(i) Environment and Energy; and

15                   “(ii) NextGen–Environmental Re-  
16          search–Aircraft Technologies, Fuels and  
17          Metrics; and

18           “(D) \$7,000,000 for Mission Support pro-  
19          grams, including—

20                   “(i) System Planning and Resource  
21          Management; and

22                   “(ii) William J. Hughes Technical  
23          Center Laboratory Facility;

24           “(12) for fiscal year 2020, \$190,000,000, in-  
25          cluding—



- 1                   “(A) \$133,500,000 for Safety Research  
2 and Development programs, including—
- 3                   “(i) Fire Research and Safety;
- 4                   “(ii) Propulsion and Fuel Systems;
- 5                   “(iii) Advanced Materials/Structural  
6 Safety;
- 7                   “(iv) Aircraft Icing/Digital System  
8 Safety;
- 9                   “(v) Continued Airworthiness;
- 10                  “(vi) Aircraft Catastrophic Failure  
11 Prevention Research;
- 12                  “(vii) Flightdeck/Maintenance/System  
13 Integration Human Factors;
- 14                  “(viii) System Safety Management;
- 15                  “(ix) Air Traffic Control/Technical  
16 Operations Human Factors;
- 17                  “(x) Aeromedical Research;
- 18                  “(xi) Weather Program;
- 19                  “(xii) Unmanned Aircraft Systems  
20 Research;
- 21                  “(xiii) NextGen–Alternative Fuels for  
22 General Aviation;
- 23                  “(xiv) Joint Planning and Develop-  
24 ment Office;

- 1                   “(xv) Ocean and Other Remote Loca-  
2                   tions ATS Research Program;
- 3                   “(xvi) Cybersecurity Research Pro-  
4                   gram;
- 5                   “(xvii) Cybersecurity Threat Modeling  
6                   Program;
- 7                   “(xviii) Single Piloted Commercial  
8                   Cargo Aircraft Program; and
- 9                   “(xix) UAV-Manned Aircraft Collision  
10                  Research Program;
- 11                  “(B) \$29,000,000 for Economic Competi-  
12                  tiveness Research and Development programs,  
13                  including—
- 14                   “(i) NextGen–Wake Turbulence;
- 15                   “(ii) NextGen–Air Ground Integration  
16                   Human Factors;
- 17                   “(iii) Next Gen–Weather Technology  
18                   in the Cockpit; and
- 19                   “(iv) Commercial Space Transpor-  
20                   tation Safety;
- 21                  “(C) \$20,000,000 for Environmental Sus-  
22                  tainability Research and Development pro-  
23                  grams, including—
- 24                   “(i) Environment and Energy; and

1                   “(ii) NextGen–Environmental Re-  
2                   search–Aircraft Technologies, Fuels and  
3                   Metrics; and

4                   “(D) \$7,500,000 for Mission Support pro-  
5                   grams, including—

6                   “(i) System Planning and Resource  
7                   Management; and

8                   “(ii) William J. Hughes Technical  
9                   Center Laboratory Facility;

10                  “(13) for fiscal year 2021, \$195,000,000;

11                  “(14) for fiscal year 2022, \$200,000,000; and

12                  “(15) for fiscal year 2023, \$204,000,000.”.

13                  (b) CONTINGENCY FUNDING.—Section 48102(b) of  
14 title 49, United States, Code, is amended by inserting  
15 after paragraph (3) the following:

16                  “(4) Notwithstanding subsection (a), no funds are  
17 authorized for a fiscal year for Environmental Sustain-  
18 ability Research and Development programs unless the  
19 full amount authorized for that fiscal year under sub-  
20 section (a) for the all of the following programs is appro-  
21 priated for that fiscal year:

22                  “(A) Safety Research and Development pro-  
23 grams.

24                  “(B) Economic Competitiveness Research and  
25 Development programs.

1           “(C) Mission Support programs.”.

2           (c) ANNUAL SUBMISSION OF THE NATIONAL AVIA-  
3 TION RESEARCH PLAN.—Section 48102(g) of title 49,  
4 United States, Code, is amended to read as follows:

5           “(g) ANNUAL SUBMISSION OF THE NATIONAL AVIA-  
6 TION RESEARCH PLAN.—Notwithstanding subsection (a),  
7 no funds are authorized to be appropriated for the Office  
8 of the Administrator for a fiscal year unless the Secretary  
9 has submitted the national aviation research plan to Con-  
10 gress no later than the date of submission of the Presi-  
11 dent’s budget request to Congress for that fiscal year, as  
12 required under section 44501(c).”.

13           **Subtitle B—FAA Research and**  
14           **Development Organization**

15           **SEC. 711. ASSOCIATE ADMINISTRATOR FOR RESEARCH AND**  
16           **DEVELOPMENT.**

17           (a) APPOINTMENT.—Not later than 3 months after  
18 the date of enactment of this Act, the Administrator shall  
19 appoint an Associate Administrator for Research and De-  
20 velopment.

21           (b) SENIOR EXECUTIVE SERVICE.—The Associate  
22 Administrator for Research and Development shall be a  
23 Senior Executive Service position.

1           (c) RESPONSIBILITIES.—The Associate Adminis-  
2 trator for Research and Development shall, at a minimum,  
3 be responsible for—

4           (1) management and oversight of all the FAA’s  
5 research and development programs and activities;  
6 and

7           (2) production of all congressional reports from  
8 the FAA relevant to research and development, in-  
9 cluding the national aviation research plan required  
10 under section 44501(c) of title 49, United States  
11 Code.

12          (d) DUAL APPOINTMENT.—The Associate Adminis-  
13 trator for Research and Development may be a dual-ap-  
14 pointment, holding the responsibilities of another Asso-  
15 ciate Administrator.

16 **SEC. 712. RESEARCH ADVISORY COMMITTEE.**

17          (a) ADVICE AND RECOMMENDATIONS.—Section  
18 44508(a)(1)(A) of title 49, United States Code, is amend-  
19 ed to read as follows:

20           “(A) provide advice and recommendations to  
21 the Administrator of the Federal Aviation Adminis-  
22 tration and Congress about needs, objectives, plans,  
23 approaches, content, and accomplishments of all  
24 aviation research and development activities and  
25 programs carried out, including those under sections

1 40119, 44504, 44505, 44507, 44511–44513, and  
2 44912 of this title;”.

3 (b) WRITTEN REPLY TO RESEARCH ADVISORY COM-  
4 MITTEE.—Section 44508 of title 49, United States Code,  
5 is amended by adding at the end the following:

6 “(f) WRITTEN REPLY.—

7 “(1) IN GENERAL.—Not later than 60 days  
8 after receiving any recommendation from the re-  
9 search advisory committee, the Administrator shall  
10 provide a written reply to the research advisory com-  
11 mittee that, at a minimum—

12 “(A) clearly states whether the Adminis-  
13 trator accepts or rejects the recommendations;

14 “(B) explains the rationale for the Admin-  
15 istrator’s decision;

16 “(C) sets forth the timeframe in which the  
17 Administrator will implement the recommenda-  
18 tion; and

19 “(D) describes the steps the Administrator  
20 will take to implement the recommendation.

21 “(2) TRANSPARENCY.—The written reply to the  
22 research advisory committee, when transmitted to  
23 the research advisory committee, shall be—

24 “(A) made publicly available on the re-  
25 search advisory committee website; and

1           “(B) transmitted to the Committee on  
2           Science, Space, and Technology of the House of  
3           Representatives and the Committee on Com-  
4           merce, Science, and Transportation of the Sen-  
5           ate.

6           “(3) NATIONAL AVIATION RESEARCH PLAN.—  
7           The national aviation research plan required under  
8           section 44501(c) shall include a summary of all re-  
9           search advisory committee recommendations and a  
10          description of the status of their implementation.”.

## 11           **Subtitle C—Unmanned Aircraft** 12   **Systems**

### 13           **SEC. 721. UNMANNED AIRCRAFT SYSTEMS RESEARCH AND** 14   **DEVELOPMENT ROADMAP.**

15          No funds are authorized to be appropriated for the  
16          Office of the Administrator for a fiscal year unless the  
17          Secretary has submitted the unmanned aircraft systems  
18          roadmap to Congress on an annual basis as required  
19          under section 45502(a) of title 49, United States Code,  
20          (as added by this Act).

### 21           **SEC. 722. PROBABILISTIC METRICS FOR EXEMPTIONS.**

22          (a) STUDY.—Not later than 30 days after the date  
23          of enactment of this Act, the Administrator shall commis-  
24          sion an independent study to—

1           (1) develop parameters to conduct research and  
2           development for probabilistic metrics to enable the  
3           identification of hazards and the assessment of risks  
4           as necessary to make determinations under section  
5           45505(a) of title 49, United States Code, (as added  
6           by this Act) that certain unmanned aircraft systems  
7           may operate safely in the national airspace system;

8           (2) identify additional research needed to more  
9           effectively develop and use such metrics and make  
10          such determinations; and

11          (3) in developing parameters for probabilistic  
12          metrics, this study shall take into account the utility  
13          of performance standards to make determinations  
14          under section 45505(a) of title 49, United States  
15          Code, (as added by this Act).

16          (b) CONSIDERATION OF RESULTS.—The Adminis-  
17          trator shall consider the results of the study conducted  
18          under subsection (a) when making a determination de-  
19          scribed in subsection (a)(1).

20          (c) REPORT.—Not later than 9 months after the date  
21          of enactment of this Act, the Administrator shall transmit  
22          the results of the study conducted under subsection (a)  
23          to the Committee on Science, Space, and Technology of  
24          the House of Representatives and the Committee on Com-  
25          merce, Science, and Transportation of the Senate.



1 **SEC. 723. PROBABILISTIC ASSESSMENT OF RISKS.**

2       The Administrator shall conduct research and devel-  
3 opment to enable a probabilistic assessment of risks to in-  
4 form requirements for standards for operational certifi-  
5 cation of public unmanned aircraft systems in the national  
6 airspace.

7 **SEC. 724. UNMANNED AERIAL VEHICLE-MANNED AIRCRAFT**  
8 **COLLISION RESEARCH.**

9       (a) RESEARCH.—The Administrator shall coordinate  
10 with NASA to conduct comprehensive testing of un-  
11 manned aerial vehicles colliding with a manned aircraft,  
12 including—

13           (1) collisions between unmanned aerial vehicles  
14 of various sizes, traveling at various speeds, and  
15 commercial jet airliners of various sizes, traveling at  
16 various speeds;

17           (2) collisions between unmanned aerial vehicles  
18 of various sizes, traveling at various speeds, and pro-  
19 peller planes of various sizes, traveling at various  
20 speeds;

21           (3) collisions between unmanned aerial vehicles  
22 of various sizes, traveling at various speeds, and  
23 blimps of various sizes, traveling at various speeds;

24           (4) collisions between unmanned aerial vehicles  
25 of various sizes, traveling at various speeds, and

1 rotorcraft of various sizes, traveling at various  
2 speeds; and

3 (5) collisions between unmanned aerial vehicles  
4 and various parts of the aforementioned aircraft, in-  
5 cluding—

6 (A) windshields;

7 (B) noses;

8 (C) engines;

9 (D) radomes;

10 (E) propellers; and

11 (F) wings.

12 (b) REPORT.—Not later than one year after the date  
13 of enactment of this Act, the Administrator shall transmit  
14 a report summarizing the costs and results of research  
15 under this section to the Committee on Science, Space,  
16 and Technology of the House of Representatives and the  
17 Committee on Commerce, Science, and Transportation of  
18 the Senate.

19 **SEC. 725. SPECIAL RULE FOR RESEARCH AND DEVELOP-**  
20 **MENT.**

21 Except as necessary to support enforcement action  
22 under applicable provisions of law against persons oper-  
23 ating unmanned aircraft in a manner that endangers the  
24 safety of the national airspace system, notwithstanding  
25 any other provision of law relating to the incorporation

1 of unmanned aircraft systems into FAA plans and policies,  
2 the Administrator may not promulgate any rule or regula-  
3 tion regarding the operation of an unmanned aircraft sys-  
4 tem—

5 (1) that is flown strictly for research and devel-  
6 opment use;

7 (2) that is operated less than 400 feet above  
8 the ground and in Class G airspace;

9 (3) that is operated in a manner that does not  
10 interfere with and gives way to any manned aircraft;  
11 and

12 (4) when flown within 5 miles of an airport, the  
13 operator of the aircraft provides the airport operator  
14 and the airport air traffic control tower (when an air  
15 traffic facility is located at the airport) with prior  
16 notice of the operation (unmanned aircraft operators  
17 flying from a permanent location within 5 miles of  
18 an airport should establish a mutually-agreed upon  
19 operating procedure with the airport operator and  
20 the airport air traffic control tower (when an air  
21 traffic facility is located at the airport)).

1 **SEC. 726. BEYOND LINE-OF-SIGHT RESEARCH AND DEVELOPMENT.**  
2

3 (a) AMENDMENTS.—Section 332(c)(2) the FAA  
4 Modernization and Reform Act of 2012 (49 U.S.C. 40101  
5 note) is amended—

6 (1) by striking “Administrator shall” and in-  
7 serting “Administrator”;

8 (2) at the beginning of each of subparagraphs  
9 (A) through (F), by inserting “shall”;

10 (3) at the end of subparagraph (E), by striking  
11 “and”;

12 (4) at the end of subparagraph (F), by striking  
13 the period and inserting a semicolon; and

14 (5) by adding at the end the following new sub-  
15 paragraphs:

16 “(G) shall allow beyond line-of-sight oper-  
17 ation of unmanned aircraft systems to be flown  
18 within the boundaries of a test range estab-  
19 lished under this subsection;

20 “(H) may promulgate regulations gov-  
21 erning beyond line-of-sight operation of un-  
22 manned aircraft systems flown within the  
23 boundaries of a test range established under  
24 this subsection for the purposes of public safe-  
25 ty; and

1           “(I) shall allow NASA to authorize oper-  
2           ation of beyond line-of-sight unmanned aircraft  
3           systems within the boundaries of any NASA  
4           center or facility.”.

5           (b) STATUTORY CONSTRUCTION.—Nothing in the  
6           amendments made by subsection (a) shall be construed to  
7           limit the authority of the Administrator to pursue enforce-  
8           ment action under applicable provisions of law against per-  
9           sons operating unmanned aircraft in a manner that en-  
10          dangers the safety of the national airspace system.

## 11           **Subtitle D—Cybersecurity**

### 12          **SEC. 731. CYBER TESTBED.**

13           Not later than 6 months after the date of enactment  
14           of this Act, the Administrator shall develop an integrated  
15           Cyber Testbed for research, development, evaluation, and  
16           validation of air traffic control modernization programs or  
17           technologies, before they enter the national airspace sys-  
18           tem, as being compliant with FAA data security regula-  
19           tions. The Cyber Testbed shall be part of an integrated  
20           research and development test environment capable of cre-  
21           ating, identifying, defending, and solving cybersecurity-re-  
22           lated problems for the national airspace system. This inte-  
23           grated test environment shall incorporate integrated test  
24           capacities within the FAA related to the national airspace  
25           system and NextGen.

1 **SEC. 732. CABIN COMMUNICATIONS, ENTERTAINMENT, AND**  
2 **INFORMATION TECHNOLOGY SYSTEMS CY-**  
3 **BERSECURITY VULNERABILITIES.**

4 (a) **EVALUATION.**—The Administrator shall evaluate  
5 and determine the research and development needs associ-  
6 ated with cybersecurity vulnerabilities of cabin commu-  
7 nications, entertainment, and information technology sys-  
8 tems on civil passenger aircraft. This evaluation shall in-  
9 clude research and development to address—

- 10 (1) technical risks and vulnerabilities;  
11 (2) potential impacts on the national airspace  
12 and public safety; and  
13 (3) identification of deficiencies in cabin-based  
14 cybersecurity.

15 (b) **ASSESSMENT.**—The Administrator shall—

- 16 (1) conduct an assessment of opportunities to  
17 cooperate with the private sector in conducting air-  
18 craft in-cabin cybersecurity research and develop-  
19 ment; and  
20 (2) provide recommendations to improve re-  
21 search and development on cabin-based cybersecurity  
22 vulnerabilities.

23 (c) **REPORT.**—Not later than 9 months after the date  
24 of enactment of this Act, the Administrator shall transmit  
25 a report on the results of activities under this section to  
26 the Committee on Science, Space, and Technology of the

1 House of Representatives and the Committee on Com-  
2 merce, Science, and Transportation of the Senate. This  
3 report may contain classified annexes.

4 **SEC. 733. CYBERSECURITY THREAT MODELING.**

5 (a) PROGRAM.—

6 (1) IN GENERAL.—The Administrator shall con-  
7 sult the National Institute of Standards and Tech-  
8 nology to research and develop an internal FAA cy-  
9 bersecurity threat modeling program to detect cyber-  
10 security vulnerabilities, track how those  
11 vulnerabilities might be exploited, and assess the  
12 magnitude of harm that could be caused by the ex-  
13 ploitation of those vulnerabilities.

14 (2) UPDATES.—This program shall be updated  
15 regularly, not less than once every 5 years.

16 (b) REPORT.—Not later than one year after the date  
17 of enactment of this Act, and within 7 days of each threat  
18 modeling program update under subsection (a)(2), the Ad-  
19 ministrator shall transmit a report to the Committee on  
20 Science, Space, and Technology of the House of Rep-  
21 resentatives and the Committee on Commerce, Science,  
22 and Transportation of the Senate detailing the status, re-  
23 sults, and composition of the threat modeling program.

1 **SEC. 734. NATIONAL INSTITUTE OF STANDARDS AND TECH-**  
2 **NOLOGY CYBERSECURITY STANDARDS.**

3 Not later than 6 months after the date of enactment  
4 of this Act, the FAA shall, in consultation with the Na-  
5 tional Institute of Standards and Technology, transmit to  
6 the Committee on Science, Space, and Technology of the  
7 House of Representatives and the Committee on Com-  
8 merce, Science, and Transportation of the Senate a report  
9 that includes—

10 (1) a cybersecurity standards plan to implement  
11 National Institute of Standards and Technology re-  
12 visions to cybersecurity guidance documents within  
13 timeframes set by the Office of Management and  
14 Budget; and

15 (2) an explanation of why any such rec-  
16 ommendations are not incorporated in the plan or  
17 are not incorporated within such timeframes.

18 **SEC. 735. CYBERSECURITY RESEARCH COORDINATION.**

19 The Administrator shall, where feasible, cooperate on  
20 cybersecurity research and development with other inter-  
21 national air traffic management organizations, including  
22 the European Aviation Safety Agency, the United King-  
23 dom Civil Aviation Authority, Nav Canada, and  
24 Airservices Australia.



1 **SEC. 736. CYBERSECURITY RESEARCH AND DEVELOPMENT**  
2 **PROGRAM.**

3 (a) ESTABLISHMENT.—Not later than 6 months after  
4 the date of enactment of this Act, the FAA, in consulta-  
5 tion with other agencies as appropriate, shall establish a  
6 research and development program to improve the cyber-  
7 security of civil aircraft and the national airspace system.

8 (b) PLAN.—

9 (1) IN GENERAL.—Not later than 1 year after  
10 the date of enactment of this Act, the FAA shall de-  
11 velop a plan for the research and development pro-  
12 gram established under subsection (a) that contains  
13 objectives, proposed tasks, milestones, and a 5-year  
14 budgetary profile.

15 (2) NATIONAL ACADEMIES' STUDY.—The Ad-  
16 ministrator shall—

17 (A) enter into an arrangement with the  
18 National Academies for a study of the plan de-  
19 veloped under paragraph (1); and

20 (B) provide the results of that study to the  
21 Committee on Science, Space, and Technology  
22 of the House of Representatives and the Com-  
23 mittee on Commerce, Science, and Transpor-  
24 tation of the Senate not later than 18 months  
25 after the date of enactment of this Act.

1           **Subtitle E—FAA Research and**  
2                   **Development Activities**

3   **SEC. 741. RESEARCH PLAN FOR THE CERTIFICATION OF**  
4                   **NEW TECHNOLOGIES INTO THE NATIONAL**  
5                   **AIRSPACE SYSTEM.**

6           Not later than 1 year after the date of enactment  
7 of this Act, the Administrator, in consultation with NASA,  
8 shall transmit a comprehensive research plan for the cer-  
9 tification of new technologies into the national airspace  
10 system to the Committee on Science, Space, and Tech-  
11 nology of the House of Representatives and the Committee  
12 on Commerce, Science, and Transportation of the Senate.  
13 This plan shall identify research necessary to support the  
14 certification and implementation of NextGen, including  
15 both ground and air elements, and explain the plan’s rela-  
16 tionship to other activities and procedures required for  
17 certification and implementation of new technologies into  
18 the national airspace system. This plan shall be informed  
19 by and conform to the recommendations of the National  
20 Research Council report titled “Transformation in the  
21 Air—A Review of the FAA Research Plan”, issued on  
22 June 8, 2015. This report shall include, at a minimum—

23                   (1) a description of the strategic and prescrip-  
24                   tive value of the research plan;

1           (2) an explanation of the expected outcomes  
2           from executing the plan;

3           (3) an assessment of the FAA’s plan to use re-  
4           search and development to improve cybersecurity  
5           over the next 5 years, taking into account the cyber-  
6           security research and development plan developed  
7           under section 736(b);

8           (4) an assessment of the current software as-  
9           surance practices, and the desired level or attributes  
10          to target in the software assurance program;

11          (5) cost estimates, planned schedules, and per-  
12          formance benchmarks, including specific tasks, mile-  
13          stones, and timelines and including an identification  
14          of cost and schedule reserves, for the certification of  
15          new technologies into the national airspace system,  
16          including NextGen, Automatic Dependent Surveil-  
17          lance-Broadcast, Data Communications, National  
18          Airspace System Voice System, Collaborative Air  
19          Traffic Management Technologies, NextGen Weath-  
20          er, and System Wide Information Management;

21          (6) methods for integrating emerging tech-  
22          nologies throughout NextGen’s development, certifi-  
23          cation, and implementation process; and

1           (7) best practices in research and development  
2           used by other organizations, such as NASA,  
3           NavCanada, and Eurocontrol.

4 **SEC. 742. AVIATION FUEL RESEARCH, DEVELOPMENT, AND**  
5 **USAGE.**

6           The Administrator may conduct or supervise re-  
7 search, development, and service testing, currently being  
8 conducted under the Piston Aviation Fuels Initiative  
9 (PAFI) unleaded avgas program, that is required to allow  
10 the use of an unleaded aviation gasoline in existing air-  
11 craft as a replacement for leaded gasoline.

12 **SEC. 743. AIR TRAFFIC SURVEILLANCE OVER OCEANS AND**  
13 **OTHER REMOTE LOCATIONS.**

14           (a) ESTABLISHMENT OF PROGRAM.—The Adminis-  
15 trator, in consultation with NASA and other relevant  
16 agencies, shall establish a research and development pro-  
17 gram on civilian air traffic surveillance over oceans and  
18 other remote locations. Such program shall—

19           (1) take into account the need for international  
20 interoperability of technologies and air traffic control  
21 systems; and

22           (2) recognize that Automatic Dependent Sur-  
23 veillance-Broadcast (ADS-B) is an element of the  
24 Next Generation Air Transportation System.

1 (b) PILOT PROGRAM.—The Administrator shall es-  
2 tablish a pilot program to test, evaluate, and certify for  
3 integration into the national airspace system air traffic  
4 surveillance equipment for oceans and other remote loca-  
5 tions.

6 (c) PARTNERSHIP WITH PRIVATE INDUSTRY.—The  
7 Administrator shall partner with private industry on the  
8 research, development, testing, and evaluation under this  
9 section.

10 (d) REPORT.—Not later than 18 months after the  
11 date of enactment of this Act, the Administrator shall  
12 transmit a report on activities under this section to the  
13 Committee on Science, Space, and Technology of the  
14 House of Representatives and the Committee on Com-  
15 merce, Science, and Transportation of the Senate.

16 **SEC. 744. SINGLE-PILOTED COMMERCIAL CARGO AIR-**  
17 **CRAFT.**

18 (a) PROGRAM.—The FAA, in consultation with  
19 NASA and other relevant agencies, shall establish a re-  
20 search and development program in support of single-pi-  
21 loted cargo aircraft assisted with remote piloting and com-  
22 puter piloting.

23 (b) REVIEW.—The FAA, in consultation with NASA,  
24 shall conduct a review of FAA research and development

1 activities in support of single-piloted cargo aircraft as-  
2 sisted with remote piloting and computer piloting.

3 (c) REPORT.—Not later than 6 months after the date  
4 of enactment of this Act, the Administrator shall transmit  
5 a report to the Committee on Science, Space, and Tech-  
6 nology of the House of Representatives and the Committee  
7 on Commerce, Science, and Transportation of the Senate  
8 that describes—

9 (1) the program established under subsection  
10 (a); and

11 (2) the results of the review conducted under  
12 subsection (b).

13 **SEC. 745. ELECTROMAGNETIC SPECTRUM RESEARCH AND**  
14 **DEVELOPMENT.**

15 The Administrator shall develop a program to re-  
16 search the use of spectrum in the civil aviation domain,  
17 including aircraft and unmanned aircraft systems. This  
18 research shall, at a minimum, address—

19 (1) how, operating within an Unmanned Air-  
20 craft System Traffic Management system, un-  
21 manned aircraft systems can safely use, for control  
22 link, tracking, diagnostics, payload communication,  
23 collaborative-collision avoidance (e.g. vehicle-to-vehi-  
24 cle communications), and other purposes—

25 (A) aviation-protected spectrum;

1 (B) commercial communications networks,  
2 such as mobile communications networks; and

3 (C) any other licensed or unlicensed spec-  
4 trum;

5 (2) how the reallocation of spectrum assigned  
6 for use within frequency bands adjacent to those al-  
7 located for position, navigation, and timing may im-  
8 pact the safety of civil aviation; and

9 (3) measures to protect and mitigate against  
10 spectrum interference in frequency bands used by  
11 the civil aviation community to ensure public safety.

## 12 **TITLE VIII—AVIATION REVENUE** 13 **PROVISIONS**

### 14 **SEC. 801. EXPENDITURE AUTHORITY FROM AIRPORT AND** 15 **AIRWAY TRUST FUND.**

16 (a) IN GENERAL.—Section 9502(d)(1) of the Inter-  
17 nal Revenue Code of 1986 is amended—

18 (1) in the matter preceding subparagraph (A)  
19 by striking “October 1, 2018” and inserting “Octo-  
20 ber 1, 2023”; and

21 (2) in subparagraph (A) by striking the semi-  
22 colon at the end and inserting “or the FAA Reau-  
23 thorization Act of 2018;”.

1 (b) CONFORMING AMENDMENT.—Section 9502(e)(2)  
2 of such Code is amended by striking “October 1, 2018”  
3 and inserting “October 1, 2023”.

4 **SEC. 802. EXTENSION OF TAXES FUNDING AIRPORT AND**  
5 **AIRWAY TRUST FUND.**

6 (a) FUEL TAXES.—Section 4081(d)(2)(B) of the In-  
7 ternal Revenue Code of 1986 is amended by striking “Sep-  
8 tember 30, 2018” and inserting “September 30, 2023”.

9 (b) TICKET TAXES.—

10 (1) PERSONS.—Section 4261(k)(1)(A)(ii) of  
11 such Code is amended by striking “September 30,  
12 2018” and inserting “September 30, 2023”.

13 (2) PROPERTY.—Section 4271(d)(1)(A)(ii) of  
14 such Code is amended by striking “September 30,  
15 2018” and inserting “September 30, 2023”.

16 (c) FRACTIONAL OWNERSHIP PROGRAMS.—

17 (1) FUEL TAX.—Section 4043(d) of such Code  
18 is amended by striking “September 30, 2021” and  
19 inserting “September 30, 2023”.

20 (2) TREATMENT AS NONCOMMERCIAL AVIA-  
21 TION.—Section 4083(b) of such Code is amended by  
22 striking “October 1, 2018” and inserting “October  
23 1, 2023”.

24 (3) EXEMPTION FROM TICKET TAXES.—Section  
25 4261(j) of such Code is amended by striking “Sep-



1 tember 30, 2018” and inserting “September 30,  
2 2023”.

○