

# **STATUTORY AND REGULATORY ADDENDUM**

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### **5 U.S.C. § 553 – Rulemaking**

\* \* \*

(e) Each agency shall give an interested person the right to petition for the issuance, amendment, or repeal of a rule.

### **5 U.S.C. § 555 – Ancillary Matters**

\* \* \*

(e) Prompt notice shall be given of the denial in whole or in part of a written application, petition, or other request of an interested person made in connection with any agency proceeding. Except in affirming a prior denial or when the denial is self-explanatory, the notice shall be accompanied by a brief statement of the grounds for denial.

### **5 U.S.C. § 706 – Scope of review**

To the extent necessary to decision and when presented, the reviewing court shall decide all relevant questions of law, interpret constitutional and statutory provisions, and determine the meaning or applicability of the terms of an agency action. The reviewing court shall-

- (1) compel agency action unlawfully withheld or unreasonably delayed; and
- (2) hold unlawful and set aside agency action, findings, and conclusions found to be-
  - (A) arbitrary, capricious, an abuse of discretion, or otherwise not in accordance with law;
  - (B) contrary to constitutional right, power, privilege, or immunity;
  - (C) in excess of statutory jurisdiction, authority, or limitations, or short of statutory right;
  - (D) without observance of procedure required by law;
  - (E) unsupported by substantial evidence in a case subject to sections 556 and 557 of this title or otherwise reviewed on the record of an agency hearing provided by statute; or
  - (F) unwarranted by the facts to the extent that the facts are subject to trial de novo by the reviewing court.

In making the foregoing determinations, the court shall review the whole record or those parts of it cited by a party, and due account shall be taken of the rule of prejudicial error.

### **14 C.F.R. § 11.73 – How does FAA process petitions for rulemaking?**

After we have determined the disposition of your petition, we will contact you in writing about our decision. The FAA may respond to your petition for rulemaking in one of the following ways:

(a) If we determine that your petition justifies our taking the action you suggest, we may issue an NPRM or ANPRM. We will do so no later than 6 months after the date we receive your petition. In making our decision, we consider:

- (1) The immediacy of the safety or security concerns you raise;
- (2) The priority of other issues the FAA must deal with; and
- (3) The resources we have available to address these issues.

(b) If we have issued an ANPRM or NPRM on the subject matter of your petition, we will consider your arguments for a rule change as a comment in connection with the rulemaking proceeding. We will not treat your petition as a separate action.

(c) If we have begun a rulemaking project in the subject area of your petition, we will consider your comments and arguments for a rule change as part of that project. We will not treat your petition as a separate action.

(d) If we have tasked ARAC to study the general subject area of your petition, we will ask ARAC to review and evaluate your proposed action. We will not treat your petition as a separate action.

(e) If we determine that the issues you identify in your petition may have merit, but do not address an immediate safety concern or cannot be addressed because of other priorities and resource constraints, we may dismiss your petition. Your comments and arguments for a rule change will be placed in a database, which we will examine when we consider future rulemaking.

PUBLIC LAW 112–95—FEB. 14, 2012

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Public Law 112–95  
112th Congress

An Act

To amend title 49, United States Code, to authorize appropriations for the Federal Aviation Administration for fiscal years 2011 through 2014, to streamline programs, create efficiencies, reduce waste, and improve aviation safety and capacity, to provide stable funding for the national aviation system, and for other purposes.

Feb. 14, 2012  
[H.R. 658]

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,*

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

(a) **SHORT TITLE.**—This Act may be cited as the “FAA Modernization and Reform Act of 2012”.

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

FAA  
Modernization  
and Reform Act  
of 2012.  
49 USC 40101  
note.

- Sec. 1. Short title; table of contents.
- Sec. 2. Amendments to title 49, United States Code.
- Sec. 3. 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. Air navigation facilities and equipment.
- Sec. 103. FAA operations.
- Sec. 104. Funding for aviation programs.
- Sec. 105. Delineation of Next Generation Air Transportation System projects.

Subtitle B—Passenger Facility Charges

- Sec. 111. Passenger facility charges.
- Sec. 112. GAO study of alternative means of collecting PFCs.
- Sec. 113. Qualifications-based selection.

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- Sec. 122. Registration fees.

Subtitle D—Airport Improvement Program Modifications

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- Sec. 132. AIP definitions.
- Sec. 133. Recycling plans for airports.
- Sec. 134. Contents of competition plans.
- Sec. 135. Grant assurances.
- Sec. 136. Agreements granting through-the-fence access to general aviation airports.
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- Sec. 140. Minority and disadvantaged business participation.
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**SEC. 2. AMENDMENTS TO TITLE 49, UNITED STATES CODE.**

Except as otherwise expressly provided, whenever in this Act an amendment or repeal is expressed in terms of an amendment to, or a repeal of, a section or other provision, the reference shall be considered to be made to a section or other provision of title 49, United States Code.

**SEC. 3. EFFECTIVE DATE.**

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

49 USC 40101  
note.

**TITLE I—AUTHORIZATIONS****Subtitle A—Funding of FAA Programs****SEC. 101. AIRPORT PLANNING AND DEVELOPMENT AND NOISE COMPATIBILITY PLANNING AND PROGRAMS.**

(a) AUTHORIZATION.—Section 48103 is amended to read as follows:

**“§ 48103. Airport planning and development and noise compatibility planning and programs**

“(a) IN GENERAL.—There shall be available to the Secretary of Transportation out of the Airport and Airway Trust Fund established under section 9502 of the Internal Revenue Code of 1986 to make grants for airport planning and airport development under section 47104, airport noise compatibility planning under section 47505(a)(2), and carrying out noise compatibility programs under section 47504(c) \$3,350,000,000 for each of fiscal years 2012 through 2015.

“(b) AVAILABILITY OF AMOUNTS.—Amounts made available under subsection (a) shall remain available until expended.”.

(b) OBLIGATIONAL AUTHORITY.—Section 47104(c) is amended in the matter preceding paragraph (1) by striking “After” and

\* \* \*

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(e) USE OF DESIGNEES.—The Administrator may use designees to carry out subsection (a) to the extent practicable in order to minimize the burdens on pilots.

(f) REPORT TO CONGRESS.—

(1) IN GENERAL.—Not later than 1 year after the date of enactment of this Act, and annually thereafter, the Administrator shall submit to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate a report on the issuance of improved pilot licenses under this section.

(2) EXPIRATION.—The Administrator shall not be required to submit annual reports under this subsection after the date on which the Administrator has issued improved pilot licenses under this section to all pilots.

## Subtitle B—Unmanned Aircraft Systems

49 USC 40101  
note.  
Applicability.

### SEC. 331. DEFINITIONS.

In this subtitle, the following definitions apply:

(1) ARCTIC.—The term “Arctic” means the United States zone of the Chukchi Sea, Beaufort Sea, and Bering Sea north of the Aleutian chain.

(2) CERTIFICATE OF WAIVER; CERTIFICATE OF AUTHORIZATION.—The terms “certificate of waiver” and “certificate of authorization” mean a Federal Aviation Administration grant of approval for a specific flight operation.

(3) PERMANENT AREAS.—The term “permanent areas” means areas on land or water that provide for launch, recovery, and operation of small unmanned aircraft.

(4) PUBLIC UNMANNED AIRCRAFT SYSTEM.—The term “public unmanned aircraft system” means an unmanned aircraft system that meets the qualifications and conditions required for operation of a public aircraft (as defined in section 40102 of title 49, United States Code).

(5) SENSE AND AVOID CAPABILITY.—The term “sense and avoid capability” means the capability of an unmanned aircraft to remain a safe distance from and to avoid collisions with other airborne aircraft.

(6) SMALL UNMANNED AIRCRAFT.—The term “small unmanned aircraft” means an unmanned aircraft weighing less than 55 pounds.

(7) TEST RANGE.—The term “test range” means a defined geographic area where research and development are conducted.

(8) UNMANNED AIRCRAFT.—The term “unmanned aircraft” means an aircraft that is operated without the possibility of direct human intervention from within or on the aircraft.

(9) UNMANNED AIRCRAFT SYSTEM.—The term “unmanned aircraft system” means an unmanned aircraft and associated elements (including communication links and the components that control the unmanned aircraft) that are required for the pilot in command to operate safely and efficiently in the national airspace system.

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**SEC. 332. INTEGRATION OF CIVIL UNMANNED AIRCRAFT SYSTEMS INTO NATIONAL AIRSPACE SYSTEM.**49 USC 40101  
note.**(a) REQUIRED PLANNING FOR INTEGRATION.—**

(1) **COMPREHENSIVE PLAN.**—Not later than 270 days after the date of enactment of this Act, the Secretary of Transportation, in consultation with representatives of the aviation industry, Federal agencies that employ unmanned aircraft systems technology in the national airspace system, and the unmanned aircraft systems industry, shall develop a comprehensive plan to safely accelerate the integration of civil unmanned aircraft systems into the national airspace system.

Deadline.

(2) **CONTENTS OF PLAN.**—The plan required under paragraph (1) shall contain, at a minimum, recommendations or projections on—

(A) the rulemaking to be conducted under subsection (b), with specific recommendations on how the rulemaking will—

(i) define the acceptable standards for operation and certification of civil unmanned aircraft systems;

(ii) ensure that any civil unmanned aircraft system includes a sense and avoid capability; and

(iii) establish standards and requirements for the operator and pilot of a civil unmanned aircraft system, including standards and requirements for registration and licensing;

(B) the best methods to enhance the technologies and subsystems necessary to achieve the safe and routine operation of civil unmanned aircraft systems in the national airspace system;

(C) a phased-in approach to the integration of civil unmanned aircraft systems into the national airspace system;

(D) a timeline for the phased-in approach described under subparagraph (C);

(E) creation of a safe

(F) airspace designation for cooperative manned and unmanned flight operations in the national airspace system;

(G) establishment of a process to develop certification, flight standards, and air traffic requirements for civil unmanned aircraft systems at test ranges where such systems are subject to testing;

(H) the best methods to ensure the safe operation of civil unmanned aircraft systems and public unmanned aircraft systems simultaneously in the national airspace system; and

(I) incorporation of the plan into the annual NextGen Implementation Plan document (or any successor document) of the Federal Aviation Administration.

(3) **DEADLINE.**—The plan required under paragraph (1) shall provide for the safe integration of civil unmanned aircraft systems into the national airspace system as soon as practicable, but not later than September 30, 2015.

(4) **REPORT TO CONGRESS.**—Not later than 1 year after the date of enactment of this Act, the Secretary shall submit to Congress a copy of the plan required under paragraph (1).

126 STAT. 74

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Deadlines.  
Publication.  
Web posting.

(5) ROADMAP.—Not later than 1 year after the date of enactment of this Act, the Secretary shall approve and make available in print and on the Administration's Internet Web site a 5-year roadmap for the introduction of civil unmanned aircraft systems into the national airspace system, as coordinated by the Unmanned Aircraft Program Office of the Administration. The Secretary shall update the roadmap annually.

Deadline.  
Federal Register,  
publication.

(b) RULEMAKING.—Not later than 18 months after the date on which the plan required under subsection (a)(1) is submitted to Congress under subsection (a)(4), the Secretary shall publish in the Federal Register—

(1) a final rule on small unmanned aircraft systems that will allow for civil operation of such systems in the national airspace system, to the extent the systems do not meet the requirements for expedited operational authorization under section 333 of this Act;

(2) a notice of proposed rulemaking to implement the recommendations of the plan required under subsection (a)(1), with the final rule to be published not later than 16 months after the date of publication of the notice; and

(3) an update to the Administration's most recent policy statement on unmanned aircraft systems, contained in Docket No. FAA–2006–25714.

(c) PILOT PROJECTS.—

Deadline.

(1) ESTABLISHMENT.—Not later than 180 days after the date of enactment of this Act, the Administrator shall establish a program to integrate unmanned aircraft systems into the national airspace system at 6 test ranges. The program shall terminate 5 years after the date of enactment of this Act.

Termination  
date.

(2) PROGRAM REQUIREMENTS.—In establishing the program under paragraph (1), the Administrator shall—

(A) safely designate airspace for integrated manned and unmanned flight operations in the national airspace system;

Standards.

(B) develop certification standards and air traffic requirements for unmanned flight operations at test ranges;

(C) coordinate with and leverage the resources of the National Aeronautics and Space Administration and the Department of Defense;

(D) address both civil and public unmanned aircraft systems;

(E) ensure that the program is coordinated with the Next Generation Air Transportation System; and

(F) provide for verification of the safety of unmanned aircraft systems and related navigation procedures before integration into the national airspace system.

(3) TEST RANGE LOCATIONS.—In determining the location of the 6 test ranges of the program under paragraph (1), the Administrator shall—

(A) take into consideration geographic and climatic diversity;

(B) take into consideration the location of ground infrastructure and research needs; and

Consultation.

(C) consult with the National Aeronautics and Space Administration and the Department of Defense.

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(4) TEST RANGE OPERATION.—A project at a test range shall be operational not later than 180 days after the date on which the project is established. Deadline.

## (5) REPORT TO CONGRESS.—

(A) IN GENERAL.—Not later than 90 days after the date of the termination of the program under paragraph (1), the Administrator shall submit to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Transportation and Infrastructure and the Committee on Science, Space, and Technology of the House of Representatives a report setting forth the Administrator's findings and conclusions concerning the projects.

(B) ADDITIONAL CONTENTS.—The report under subparagraph (A) shall include a description and assessment of the progress being made in establishing special use airspace to fill the immediate need of the Department of Defense—

(i) to develop detection techniques for small unmanned aircraft systems; and

(ii) to validate the sense and avoid capability and operation of unmanned aircraft systems.

## (d) EXPANDING USE OF UNMANNED AIRCRAFT SYSTEMS IN ARCTIC.—

(1) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Secretary shall develop a plan and initiate a process to work with relevant Federal agencies and national and international communities to designate permanent areas in the Arctic where small unmanned aircraft may operate 24 hours per day for research and commercial purposes. The plan for operations in these permanent areas shall include the development of processes to facilitate the safe operation of unmanned aircraft beyond line of sight. Such areas shall enable over-water flights from the surface to at least 2,000 feet in altitude, with ingress and egress routes from selected coastal launch sites. Deadline.  
Plans.

(2) AGREEMENTS.—To implement the plan under paragraph (1), the Secretary may enter into an agreement with relevant national and international communities.

(3) AIRCRAFT APPROVAL.—Not later than 1 year after the entry into force of an agreement necessary to effectuate the purposes of this subsection, the Secretary shall work with relevant national and international communities to establish and implement a process, or may apply an applicable process already established, for approving the use of unmanned aircraft in the designated permanent areas in the Arctic without regard to whether an unmanned aircraft is used as a public aircraft, a civil aircraft, or a model aircraft. Deadline.

**SEC. 333. SPECIAL RULES FOR CERTAIN UNMANNED AIRCRAFT SYSTEMS.**

49 USC 40101 note.

(a) IN GENERAL.—Notwithstanding any other requirement of this subtitle, and not later than 180 days after the date of enactment of this Act, the Secretary of Transportation shall determine if certain unmanned aircraft systems may operate safely in the national airspace system before completion of the plan and rule-making required by section 332 of this Act or the guidance required by section 334 of this Act.

Deadline.  
Determination.

126 STAT. 76

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Determination.

(b) **ASSESSMENT OF UNMANNED AIRCRAFT SYSTEMS.**—In making the determination under subsection (a), the Secretary shall determine, at a minimum—

(1) which types of unmanned aircraft systems, if any, as a result of their size, weight, speed, operational capability, proximity to airports and populated areas, and operation within visual line of sight do not create a hazard to users of the national airspace system or the public or pose a threat to national security; and

(2) whether a certificate of waiver, certificate of authorization, or airworthiness certification under section 44704 of title 49, United States Code, is required for the operation of unmanned aircraft systems identified under paragraph (1).

(c) **REQUIREMENTS FOR SAFE OPERATION.**—If the Secretary determines under this section that certain unmanned aircraft systems may operate safely in the national airspace system, the Secretary shall establish requirements for the safe operation of such aircraft systems in the national airspace system.

49 USC 40101  
note.  
Deadline.

**SEC. 334. PUBLIC UNMANNED AIRCRAFT SYSTEMS.**

(a) **GUIDANCE.**—Not later than 270 days after the date of enactment of this Act, the Secretary of Transportation shall issue guidance regarding the operation of public unmanned aircraft systems to—

(1) expedite the issuance of a certificate of authorization process;

(2) provide for a collaborative process with public agencies to allow for an incremental expansion of access to the national airspace system as technology matures and the necessary safety analysis and data become available, and until standards are completed and technology issues are resolved;

(3) facilitate the capability of public agencies to develop and use test ranges, subject to operating restrictions required by the Federal Aviation Administration, to test and operate unmanned aircraft systems; and

(4) provide guidance on a public entity's responsibility when operating an unmanned aircraft without a civil airworthiness certificate issued by the Administration.

Deadline.

(b) **STANDARDS FOR OPERATION AND CERTIFICATION.**—Not later than December 31, 2015, the Administrator shall develop and implement operational and certification requirements for the operation of public unmanned aircraft systems in the national airspace system.

Deadline.

(c) **AGREEMENTS WITH GOVERNMENT AGENCIES.**—

(1) **IN GENERAL.**—Not later than 90 days after the date of enactment of this Act, the Secretary shall enter into agreements with appropriate government agencies to simplify the process for issuing certificates of waiver or authorization with respect to applications seeking authorization to operate public unmanned aircraft systems in the national airspace system.

(2) **CONTENTS.**—The agreements shall—

(A) with respect to an application described in paragraph (1)—

(i) provide for an expedited review of the application;

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(ii) require a decision by the Administrator on approval or disapproval within 60 business days of the date of submission of the application; and

Deadline.

(iii) allow for an expedited appeal if the application is disapproved;

(B) allow for a one-time approval of similar operations carried out during a fixed period of time; and

(C) allow a government public safety agency to operate unmanned aircraft weighing 4.4 pounds or less, if operated—

(i) within the line of sight of the operator;

(ii) less than 400 feet above the ground;

(iii) during daylight conditions;

(iv) within Class G airspace; and

(v) outside of 5 statute miles from any airport, heliport, seaplane base, spaceport, or other location with aviation activities.

**SEC. 335. SAFETY STUDIES.**49 USC 40101  
note.

The Administrator of the Federal Aviation Administration shall carry out all safety studies necessary to support the integration of unmanned aircraft systems into the national airspace system.

**SEC. 336. SPECIAL RULE FOR MODEL AIRCRAFT.**49 USC 40101  
note.

(a) **IN GENERAL.**—Notwithstanding any other provision of law relating to the incorporation of unmanned aircraft systems into Federal Aviation Administration plans and policies, including this subtitle, the Administrator of the Federal Aviation Administration may not promulgate any rule or regulation regarding a model aircraft, or an aircraft being developed as a model aircraft, if—

(1) the aircraft is flown strictly for hobby or recreational use;

(2) the aircraft is operated in accordance with a community-based set of safety guidelines and within the programming of a nationwide community-based organization;

(3) the aircraft is limited to not more than 55 pounds unless otherwise certified through a design, construction, inspection, flight test, and operational safety program administered by a community-based organization;

(4) the aircraft is operated in a manner that does not interfere with and gives way to any manned aircraft; and

(5) when flown within 5 miles of an airport, the operator of the aircraft provides the airport operator and the airport air traffic control tower (when an air traffic facility is located at the airport) with prior notice of the operation (model aircraft operators flying from a permanent location within 5 miles of an airport should establish a mutually-agreed upon operating procedure with the airport operator and the airport air traffic control tower (when an air traffic facility is located at the airport)).

(b) **STATUTORY CONSTRUCTION.**—Nothing in this section shall be construed to limit the authority of the Administrator to pursue enforcement action against persons operating model aircraft who endanger the safety of the national airspace system.

(c) **MODEL AIRCRAFT DEFINED.**—In this section, the term “model aircraft” means an unmanned aircraft that is—

(1) capable of sustained flight in the atmosphere;



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- (2) flown within visual line of sight of the person operating the aircraft; and
- (3) flown for hobby or recreational purposes.

## Subtitle C—Safety and Protections

### SEC. 341. AVIATION SAFETY WHISTLEBLOWER INVESTIGATION OFFICE.

Section 106 (as amended by this Act) is further amended by adding at the end the following:

“(t) AVIATION SAFETY WHISTLEBLOWER INVESTIGATION OFFICE.—

“(1) ESTABLISHMENT.—There is established in the Federal Aviation Administration (in this subsection referred to as the ‘Agency’) an Aviation Safety Whistleblower Investigation Office (in this subsection referred to as the ‘Office’).

“(2) DIRECTOR.—

“(A) APPOINTMENT.—The head of the Office shall be the Director, who shall be appointed by the Secretary of Transportation.

“(B) QUALIFICATIONS.—The Director shall have a demonstrated ability in investigations and knowledge of or experience in aviation.

“(C) TERM.—The Director shall be appointed for a term of 5 years.

“(D) VACANCIES.—Any individual appointed to fill a vacancy in the position of the Director occurring before the expiration of the term for which the individual’s predecessor was appointed shall be appointed for the remainder of that term.

“(3) COMPLAINTS AND INVESTIGATIONS.—

“(A) AUTHORITY OF DIRECTOR.—The Director shall—

“(i) receive complaints and information submitted by employees of persons holding certificates issued under title 14, Code of Federal Regulations (if the certificate holder does not have a similar in-house whistleblower or safety and regulatory noncompliance reporting process) and employees of the Agency concerning the possible existence of an activity relating to a violation of an order, a regulation, or any other provision of Federal law relating to aviation safety;

“(ii) assess complaints and information submitted under clause (i) and determine whether a substantial likelihood exists that a violation of an order, a regulation, or any other provision of Federal law relating to aviation safety has occurred; and

“(iii) based on findings of the assessment conducted under clause (ii), make recommendations to the Administrator of the Agency, in writing, regarding further investigation or corrective actions.

“(B) DISCLOSURE OF IDENTITIES.—The Director shall not disclose the identity of an individual who submits a complaint or information under subparagraph (A)(i) unless—

“(i) the individual consents to the disclosure in writing; or

Recommendations.

\* \* \*

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of the Administrator associated with issuing certifications to such candidates.

“(B) TREATMENT OF REIMBURSEMENTS.—Notwithstanding section 3302 of title 31, any reimbursement authorized to be collected under subparagraph (A) shall—

“(i) be credited as offsetting collections to the account that finances the activities and services for which the reimbursement is accepted;

“(ii) be available for expenditure only to pay the costs of activities and services for which the reimbursement is accepted, including all costs associated with collecting such reimbursement; and

“(iii) remain available until expended.”.

**SEC. 608. FAA AIR TRAFFIC CONTROLLER STAFFING.**

(a) STUDY BY NATIONAL ACADEMY OF SCIENCES.—Not later than 90 days after the date of enactment of this Act, the Administrator of the Federal Aviation Administration shall enter into appropriate arrangements with the National Academy of Sciences to conduct a study of the air traffic controller standards used by the Federal Aviation Administration (in this section referred to as the “FAA”) to estimate staffing needs for FAA air traffic controllers to ensure the safe operation of the national airspace system in the most cost effective manner.

Deadline.

(b) CONSULTATION.—In conducting the study, the National Academy of Sciences shall consult with the exclusive bargaining representative of employees of the FAA certified under section 7111 of title 5, United States Code, and other interested parties, including Government and industry representatives.

(c) CONTENTS.—The study shall include—

(1) an examination of representative information on productivity, human factors, traffic activity, and improved technology and equipment used in air traffic control;

(2) an examination of recent National Academy of Sciences reviews of the complexity model performed by MITRE Corporation that support the staffing standards models for the en route air traffic control environment; and

(3) consideration of the Administration’s current and estimated budgets and the most cost-effective staffing model to best leverage available funding.

(d) REPORT.—Not later than 2 years after the date of enactment of this Act, the National Academy of Sciences shall submit to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate a report on the results of the study.

**SEC. 609. AIR TRAFFIC CONTROLLER TRAINING AND SCHEDULING.**

(a) TRAINING STRATEGY AND IMPROVEMENT PLAN.—The Administrator of the Federal Aviation Administration shall conduct a study to assess the adequacy of training programs for air traffic controllers, including the Administrator’s technical training strategy and improvement plan for air traffic controllers.

Study.

(1) CONTENTS.—The study shall include—

(A) a review of the current training system for air traffic controllers, including the technical training strategy and improvement plan;

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(B) an analysis of the competencies required of air traffic controllers for successful performance in the current and future projected air traffic control environment;

(C) an analysis of the competencies projected to be required of air traffic controllers as the Federal Aviation Administration transitions to the Next Generation Air Transportation System;

(D) an analysis of various training approaches available to satisfy the air traffic controller competencies identified under subparagraphs (B) and (C);

(E) recommendations to improve the current training system for air traffic controllers, including the technical training strategy and improvement plan; and

(F) the most cost-effective approach to provide training to air traffic controllers.

(2) REPORT.—Not later than 270 days after the date of enactment of this Act, the Administrator shall submit to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate a report on the results of the study.

(b) FACILITY TRAINING PROGRAM.—Not later than 1 year after the date of enactment of this Act, the Administrator shall conduct a comprehensive review and evaluation of its Academy and facility training efforts. The Administrator shall—

(1) clarify responsibility for oversight and direction of the Academy's facility training program at the national level;

(2) communicate information concerning that responsibility to facility managers; and

(3) establish standards to identify the number of developmental air traffic controllers that can be accommodated at each facility, based on—

(A) the number of available on-the-job training instructors;

(B) available classroom space;

(C) the number of available simulators;

(D) training requirements; and

(E) the number of recently placed new personnel already in training.

(c) AIR TRAFFIC CONTROLLER SCHEDULING.—Not later than 60 days after the date of enactment of this Act, the Inspector General of the Department of Transportation shall conduct an assessment of the Federal Aviation Administration's air traffic controller scheduling practices.

(1) CONTENTS.—The assessment shall include, at a minimum—

(A) an analysis of how air traffic controller schedules are determined;

(B) an evaluation of how safety is taken into consideration when schedules are being developed and adopted;

(C) an evaluation of scheduling practices that are cost effective to the Government;

(D) an examination of how scheduling practices impact air traffic controller performance; and

(E) any recommendations the Inspector General may have related to air traffic controller scheduling practices.

Deadline.  
Review.  
Evaluation.  
49 USC 44506  
note.

Standards.

Deadline.  
Assessment.

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(2) REPORT.—Not later than 120 days after the date of enactment of this Act, the Inspector General shall submit to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate a report on the results of the assessment conducted under this subsection.

**SEC. 610. FAA FACILITY CONDITIONS.**

(a) STUDY.—The Comptroller General of the United States shall conduct a study of and review—

(1) the conditions of a sampling of Federal Aviation Administration facilities across the United States, including offices, towers, centers, and terminal radar air control;

(2) reports from employees of the Administration relating to respiratory ailments and other health conditions resulting from exposure to mold, asbestos, poor air quality, radiation, and facility-related hazards in facilities of the Administration;

(3) conditions of such facilities that could interfere with such employees' ability to effectively and safely perform their duties;

(4) the ability of managers and supervisors of such employees to promptly document and seek remediation for unsafe facility conditions;

(5) whether employees of the Administration who report facility-related illnesses are treated appropriately;

(6) utilization of scientifically approved remediation techniques to mitigate hazardous conditions in accordance with applicable State and local regulations and Occupational Safety and Health Administration practices by the Administration; and

(7) resources allocated to facility maintenance and renovation by the Administration.

(b) FACILITY CONDITION INDICES.—The Comptroller General shall review the facility condition indices of the Administration for inclusion in the recommendations under subsection (c).

(c) RECOMMENDATIONS.—Based on the results of the study and review of facility condition indices under subsection (a), the Comptroller General shall make such recommendations as the Comptroller General considers necessary—

(1) to prioritize those facilities needing the most immediate attention based on risks to employee health and safety;

(2) to ensure that the Administration is using scientifically approved remediation techniques in all facilities; and

(3) to assist the Administration in making programmatic changes so that aging facilities do not deteriorate to unsafe levels.

(d) REPORT.—Not later than 1 year after the date of enactment of this Act, the Comptroller General shall submit to the Administrator, the Committee on Commerce, Science, and Transportation of the Senate, and the Committee on Transportation and Infrastructure of the House of Representatives a report on results of the study, including the recommendations under subsection (c).

**SEC. 611. TECHNICAL CORRECTION.**

Section 40122(g)(3) is amended by adding at the end the following: “Notwithstanding any other provision of law, retroactive to April 1, 1996, the Board shall have the same remedial authority over such employee appeals that it had as of March 31, 1996.”.

\* \* \*

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Deadline.

(A) by striking “Not later than 6 months after the expiration of the program under this subsection,” and inserting “Not later than September 30, 2012;” and

(B) by striking “program, including recommendations as to the need for establishing a permanent airport cooperative research program” and inserting “program”.

**SEC. 907. CENTERS OF EXCELLENCE.**

(a) GOVERNMENT’S SHARE OF COSTS.—Section 44513(f) is amended to read as follows:

“(f) GOVERNMENT’S SHARE OF COSTS.—The United States Government’s share of establishing and operating a center and all related research activities that grant recipients carry out shall not exceed 50 percent of the costs, except that the Administrator may increase such share to a maximum of 75 percent of the costs for a fiscal year if the Administrator determines that a center would be unable to carry out the authorized activities described in this section without additional funds.”.

(b) ANNUAL REPORT.—Section 44513 is amended by adding at the end the following:

“(h) ANNUAL REPORT.—The Administrator shall transmit annually to the Committee on Science, Space, and Technology of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate at the time of the President’s budget request a report that lists—

“(1) the research projects that have been initiated by each center in the preceding year;

“(2) the amount of funding for each research project and the funding source;

“(3) the institutions participating in each research project and their shares of the overall funding for each research project; and

“(4) the level of cost-sharing for each research project.”.

49 USC 44513  
note.

**SEC. 908. CENTER OF EXCELLENCE FOR AVIATION HUMAN RESOURCE RESEARCH.**

(a) ESTABLISHMENT.—Using amounts made available under section 48102(a) of title 49, United States Code, the Administrator may establish a center of excellence to conduct research on—

(1) human performance in the air transportation environment, including among air transportation personnel such as air traffic controllers, pilots, and technicians; and

(2) any other aviation human resource issue pertinent to developing and maintaining a safe and efficient air transportation system.

(b) ACTIVITIES.—Activities conducted under this section may include the following:

(1) Research, development, and evaluation of training programs for air traffic controllers, aviation safety inspectors, airway transportation safety specialists, and engineers.

(2) Research and development of best practices for recruitment of individuals into the aviation field for mission critical positions.

(3) Research, in consultation with other relevant Federal agencies, to develop a baseline of general aviation employment statistics and an analysis of future needs in the aviation field.

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(4) Research and the development of a comprehensive assessment of the airframe and power plant technician certification process and its effect on employment trends.

(5) Evaluation of aviation maintenance technician school environments.

(6) Research and an assessment of the ability to develop training programs to allow for the transition of recently unemployed and highly skilled mechanics into the aviation field.

**SEC. 909. INTERAGENCY RESEARCH ON AVIATION AND THE ENVIRONMENT.**

49 USC 40101 note.

(a) **IN GENERAL.**—Using amounts made available under section 48102(a) of title 49, United States Code, the Administrator, in coordination with NASA and after consultation with other relevant agencies, may maintain a research program to assess the potential effect of aviation activities on the environment and, if warranted, to evaluate approaches to address any such effect.

Consultation.

**(b) RESEARCH PLAN.**—

(1) **IN GENERAL.**—The Administrator, in coordination with NASA and after consultation with other relevant agencies, shall jointly develop a plan to carry out the research under subsection (a).

(2) **CONTENTS.**—The plan shall contain an inventory of current interagency research being undertaken in this area, future research objectives, proposed tasks, milestones, and a 5-year budgetary profile.

**(3) REQUIREMENTS.**—The plan—

Deadline.

(A) shall be completed not later than 1 year after the date of enactment of this Act;

(B) shall be submitted to Congress for review; and

Submission.

(C) shall be updated, as appropriate, every 3 years after the initial submission.

Updates.

**SEC. 910. AVIATION FUEL RESEARCH AND DEVELOPMENT PROGRAM.**

49 USC 44504 note.

(a) **IN GENERAL.**—Using amounts made available under section 48102(a) of title 49, United States Code, the Administrator, in coordination with the Administrator of NASA, shall continue research and development activities into the qualification of an unleaded aviation fuel and safe transition to this fuel for the fleet of piston engine aircraft.

(b) **REQUIREMENTS.**—In carrying out the program under subsection (a), the Administrator shall, at a minimum—

(1) not later than 120 days after the date of enactment of this Act, develop a research and development plan containing the specific research and development objectives, including consideration of aviation safety, technical feasibility, and other relevant factors, and the anticipated timetable for achieving the objectives;

Deadline.

(2) assess the methods and processes by which the FAA and industry may expeditiously certify and approve new aircraft and recertify existing aircraft with respect to unleaded aviation fuel;

Assessment.

(3) assess technologies that modify existing piston engine aircraft to enable safe operation of the aircraft using unleaded aviation fuel and determine the resources necessary to certify those technologies; and

Assessment.