

and engine types or by Approved Model List Supplemental Type Certificate providing coverage for a broad range of applicable types of aircraft or engines identified in the application shall continue to be fully available as a means of approving and bringing an unleaded aviation gasoline into general use in the United States. Such approvals shall be issued when the Administrator finds that the aircraft or engine performs properly and meets the applicable regulations and minimum standards under the normal certification process.”

**§ 44715. Controlling aircraft noise and sonic boom**

(a) STANDARDS AND REGULATIONS.—(1)(A) To relieve and protect the public health and welfare from aircraft noise and sonic boom, the Administrator of the Federal Aviation Administration, as he deems necessary, shall prescribe—

(i) standards to measure aircraft noise and sonic boom; and

(ii) regulations to control and abate aircraft noise and sonic boom.

(B) The Administrator, as the Administrator deems appropriate, shall provide for the participation of a representative of the Environmental Protection Agency on such advisory committees or associated working groups that advise the Administrator on matters related to the environmental effects of aircraft and aircraft engines.

(2) The Administrator of the Federal Aviation Administration may prescribe standards and regulations under this subsection only after consulting with the Administrator of the Environmental Protection Agency. The standards and regulations shall be applied when issuing, amending, modifying, suspending, or revoking a certificate authorized under this chapter.

(3) An original type certificate may be issued under section 44704(a) of this title for an aircraft for which substantial noise abatement can be achieved only after the Administrator of the Federal Aviation Administration prescribes standards and regulations under this section that apply to that aircraft.

(b) CONSIDERATIONS AND CONSULTATION.—When prescribing a standard or regulation under this section, the Administrator of the Federal Aviation Administration shall—

(1) consider relevant information related to aircraft noise and sonic boom;

(2) consult with appropriate departments, agencies, and instrumentalities of the United States Government and State and interstate authorities;

(3) consider whether the standard or regulation is consistent with the highest degree of safety in air transportation or air commerce in the public interest;

(4) consider whether the standard or regulation is economically reasonable, technologically practicable, and appropriate for the applicable aircraft, aircraft engine, appliance, or certificate; and

(5) consider the extent to which the standard or regulation will carry out the purposes of this section.

(c) PROPOSED REGULATIONS OF ADMINISTRATOR OF ENVIRONMENTAL PROTECTION AGENCY.—The Administrator of the Environmental Protection Agency shall submit to the Administrator of the

Federal Aviation Administration proposed regulations to control and abate aircraft noise and sonic boom (including control and abatement through the use of the authority of the Administrator of the Federal Aviation Administration) that the Administrator of the Environmental Protection Agency considers necessary to protect the public health and welfare. The Administrator of the Federal Aviation Administration shall consider those proposed regulations and shall publish them in a notice of proposed regulations not later than 30 days after they are received. Not later than 60 days after publication, the Administrator of the Federal Aviation Administration shall begin a hearing at which interested persons are given an opportunity for oral and written presentations. Not later than 90 days after the hearing is completed and after consulting with the Administrator of the Environmental Protection Agency, the Administrator of the Federal Aviation Administration shall—

(1) prescribe regulations as provided by this section—

(A) substantially the same as the proposed regulations submitted by the Administrator of the Environmental Protection Agency; or

(B) that amend the proposed regulations; or

(2) publish in the Federal Register—

(A) a notice that no regulation is being prescribed in response to the proposed regulations of the Administrator of the Environmental Protection Agency;

(B) a detailed analysis of, and response to, all information the Administrator of the Environmental Protection Agency submitted with the proposed regulations; and

(C) a detailed explanation of why no regulation is being prescribed.

(d) CONSULTATION AND REPORTS.—(1) If the Administrator of the Environmental Protection Agency believes that the action of the Administrator of the Federal Aviation Administration under subsection (c)(1)(B) or (2) of this section does not protect the public health and welfare from aircraft noise or sonic boom, consistent with the considerations in subsection (b) of this section, the Administrator of the Environmental Protection Agency shall consult with the Administrator of the Federal Aviation Administration and may request a report on the advisability of prescribing the regulation as originally proposed. The request, including a detailed statement of the information on which the request is based, shall be published in the Federal Register.

(2) The Administrator of the Federal Aviation Administration shall report to the Administrator of the Environmental Protection Agency within the time, if any, specified in the request. However, the time specified must be at least 90 days after the date of the request. The report shall—

(A) be accompanied by a detailed statement of the findings of the Administrator of the Federal Aviation Administration and the reasons for the findings;

(B) identify any statement related to an action under subsection (c) of this section filed

under section 102(2)(C) of the National Environmental Policy Act of 1969 (42 U.S.C. 4332(2)(C));

(C) specify whether and where that statement is available for public inspection; and

(D) be published in the Federal Register unless the request proposes specific action by the Administrator of the Federal Aviation Administration and the report indicates that action will be taken.

(e) SUPPLEMENTAL REPORTS.—The Administrator of the Environmental Protection Agency may request the Administrator of the Federal Aviation Administration to file a supplemental report if the report under subsection (d) of this section indicates that the proposed regulations under subsection (c) of this section, for which a statement under section 102(2)(C) of the Act (42 U.S.C. 4332(2)(C)) is not required, should not be prescribed. The supplemental report shall be published in the Federal Register within the time the Administrator of the Environmental Protection Agency specifies. However, the time specified must be at least 90 days after the date of the request. The supplemental report shall contain a comparison of the environmental effects, including those that cannot be avoided, of the action of the Administrator of the Federal Aviation Administration and the proposed regulations of the Administrator of the Environmental Protection Agency.

(f) EXEMPTIONS.—An exemption from a standard or regulation prescribed under this section may be granted only if, before granting the exemption, the Administrator of the Federal Aviation Administration consults with the Administrator of the Environmental Protection Agency. However, if the Administrator of the Federal Aviation Administration finds that safety in air transportation or air commerce requires an exemption before the Administrator of the Environmental Protection Agency can be consulted, the exemption may be granted. The Administrator of the Federal Aviation Administration shall consult with the Administrator of the Environmental Protection Agency as soon as practicable after the exemption is granted.

(Pub. L. 103-272, §1(e), July 5, 1994, 108 Stat. 1196; Pub. L. 104-264, title IV, §406(a), Oct. 9, 1996, 110 Stat. 3257.)

tifies the appropriate Administrator each time the Administrator is mentioned. The words “present and future” and “and amend” are omitted as surplus. In clause (B), the words “as the FAA may find necessary to provide” are omitted as surplus.

In subsection (a)(2), the word “only” is added for clarity.

Subsection (a)(3) is substituted for 49 App.:1431(b)(2) to eliminate unnecessary words.

In subsection (b), before clause (1), the words “and amending” are omitted as surplus. In clause (1), the words “available . . . including the results of research, development, testing, and evaluation activities conducted pursuant to this chapter and the Department of Transportation Act” are omitted as surplus. In clause (2), the words “departments, agencies, and instrumentalities of the United States Government and State and interstate authorities” are substituted for “Federal, State, and interstate agencies” for consistency in the revised title and with other titles of the United States Code. The words “as he deems” are omitted as surplus. In clauses (3) and (4), the word “proposed” is omitted as surplus. In clause (4), the word “applicable” is substituted for “particular type of . . . to which it will apply” to eliminate unnecessary words. In clause (5), the words “contribute to” are omitted as surplus.

In subsection (c), before clause (1), the words “Not earlier than the date of submission of the report required by section 4906 of title 42” are omitted as executed. The words “regulatory . . . over air commerce or transportation or over aircraft or airport operations” and “submitted by the EPA under this paragraph” are omitted as surplus. The word “regulations” is substituted for “rulemaking” for consistency in the revised title. The words “after they are received” are substituted for “of the date of its submission to the FAA” to eliminate unnecessary words. The words “of data, views, and arguments” are omitted as surplus. In clause (1), the words “in accordance with subsection (b) of this section” are omitted because of the restatement. In clause (2)(B), the words “documentation or other” are omitted as surplus.

In subsection (d)(1), the words “listed” and “the FAA to review, and . . . to EPA . . . by EPA” are omitted as surplus.

In subsection (d)(2), before clause (A), the words “shall complete the review requested and” are omitted as surplus. In clause (B), the words “of the FAA” are omitted as surplus.

In subsection (e), the words “actually taken . . . in response to EPA’s proposed regulations” are omitted as surplus.

In subsection (f), the words “under any provision of this chapter” and “that . . . be granted” are omitted as surplus. The words “the exemption may be granted” are added for clarity.

HISTORICAL AND REVISION NOTES

Revised Section	Source (U.S. Code)	Source (Statutes at Large)
44715(a)(1), (2).	49 App.:1431(a), (b)(1) (1st sentence).	Aug. 23, 1958, Pub. L. 85-726, 72 Stat. 731, §611(a), (b), (d); added July 21, 1968, Pub. L. 90-411, §1, 82 Stat. 395; restated Oct. 27, 1972, Pub. L. 92-574, §7(b), 86 Stat. 1239, 1241.
44715(a)(3) .. 44715(b) .....	49 App.:1431(b)(2), 49 App.:1431(d).	Aug. 23, 1958, Pub. L. 85-726, 72 Stat. 731, §611(c); added July 21, 1968, Pub. L. 90-411, §1, 82 Stat. 395; restated Oct. 27, 1972, Pub. L. 92-574, §7(b), 86 Stat. 1240; Nov. 8, 1978, Pub. L. 95-609, §3, 92 Stat. 3080.
44715(c) .....	49 App.:1431(c)(1).	
44715(d) .....	49 App.:1431(c)(2).	
44715(e) .....	49 App.:1431(c)(3).	
44715(f) .....	49 App.:1431(b)(1) (last sentence).	

In subsection (a)(1), before clause (A), the text of 49 App.:1431(a) is omitted because the revised section iden-

Editorial Notes

AMENDMENTS

1996—Subsec. (a)(1). Pub. L. 104-264, which in directing the general amendment of par. (1) inserted an additional subsec. (a) designation and heading identical to the existing subsec. heading as well as restating the text of par. (1), was executed by restating the text only to reflect the probable intent of Congress. Prior to amendment, par. (1) read as follows: “To relieve and protect the public health and welfare from aircraft noise and sonic boom, the Administrator of the Federal Aviation Administration shall prescribe—

“(A) standards to measure aircraft noise and sonic boom; and

“(B) regulations to control and abate aircraft noise and sonic boom.”

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE OF 1996 AMENDMENT

Except as otherwise specifically provided, amendment by Pub. L. 104-264 applicable only to fiscal years

beginning after Sept. 30, 1996, and not to be construed as affecting funds made available for a fiscal year ending before Oct. 1, 1996, see section 3 of Pub. L. 104-264, set out as a note under section 106 of this title.

**§ 44716. Collision avoidance systems**

(a) DEVELOPMENT AND CERTIFICATION.—The Administrator of the Federal Aviation Administration shall—

(1) complete the development of the collision avoidance system known as TCAS-II so that TCAS-II can operate under visual and instrument flight rules and can be upgraded to the performance standards applicable to the collision avoidance system known as TCAS-III;

(2) develop and carry out a schedule for developing and certifying TCAS-II that will result in certification not later than June 30, 1989; and

(3) submit to Congress monthly reports on the progress being made in developing and certifying TCAS-II.

(b) INSTALLATION AND OPERATION.—The Administrator shall require by regulation that, not later than 30 months after the date certification is made under subsection (a)(2) of this section, TCAS-II be installed and operated on each civil aircraft that has a maximum passenger capacity of at least 31 seats and is used to provide air transportation of passengers, including intrastate air transportation of passengers. The Administrator may extend the deadline in this subsection for not more than 2 years if the Administrator finds the extension is necessary to promote—

(1) a safe and orderly transition to the operation of a fleet of civil aircraft described in this subsection equipped with TCAS-II; or

(2) other safety objectives.

(c) OPERATIONAL EVALUATION.—Not later than December 30, 1990, the Administrator shall establish a one-year program to collect and assess safety and operational information from civil aircraft equipped with TCAS-II for the operational evaluation of TCAS-II. The Administrator shall encourage foreign air carriers that operate civil aircraft equipped with TCAS-II to participate in the program.

(d) AMENDING SCHEDULE FOR WINDSHEAR EQUIPMENT.—The Administrator shall consider the feasibility and desirability of amending the schedule for installing airborne low-altitude windshear equipment to make the schedule compatible with the schedule for installing TCAS-II.

(e) DEADLINE FOR DEVELOPMENT AND CERTIFICATION.—(1) The Administrator shall complete developing and certifying TCAS-III as soon as possible.

(2) Necessary amounts may be appropriated from the Airport and Airway Trust Fund established under section 9502 of the Internal Revenue Code of 1986 (26 U.S.C. 9502) to carry out this subsection.

(f) INSTALLING AND USING TRANSPONDERS.—The Administrator shall prescribe regulations requiring that, not later than December 30, 1990, operating transponders with automatic altitude reporting capability be installed and used for aircraft operating in designated terminal airspace where radar service is provided for separa-

tion of aircraft. The Administrator may provide for access to that airspace (except terminal control areas and airport radar service areas) by nonequipped aircraft if the Administrator finds the access will not interfere with the normal traffic flow.

(g) CARGO COLLISION AVOIDANCE SYSTEMS.—

(1) IN GENERAL.—The Administrator shall require by regulation that, no later than December 31, 2002, collision avoidance equipment be installed on each cargo aircraft with a maximum certificated takeoff weight in excess of 15,000 kilograms.

(2) EXTENSION OF DEADLINE.—The Administrator may extend the deadline established by paragraph (1) by not more than 2 years if the Administrator finds that the extension is needed to promote—

(A) a safe and orderly transition to the operation of a fleet of cargo aircraft equipped with collision avoidance equipment; or

(B) other safety or public interest objectives.

(3) COLLISION AVOIDANCE EQUIPMENT DEFINED.—In this subsection, the term “collision avoidance equipment” means equipment that provides protection from mid-air collisions using technology that provides—

(A) cockpit-based collision detection and conflict resolution guidance, including display of traffic; and

(B) a margin of safety of at least the same level as provided by the collision avoidance system known as TCAS-II.

(Pub. L. 103-272, §1(e), July 5, 1994, 108 Stat. 1198; Pub. L. 106-181, title V, §502, Apr. 5, 2000, 114 Stat. 132.)

HISTORICAL AND REVISION NOTES

Revised Section	Source (U.S. Code)	Source (Statutes at Large)
44716(a) .....	49 App.:1421(f)(1).	Aug. 23, 1958, Pub. L. 85-726, 72 Stat. 731, §601(f); added Dec. 30, 1987, Pub. L. 100-223, §203(b), 101 Stat. 1518; Dec. 15, 1989, Pub. L. 101-236, §2, 103 Stat. 2060.
44716(b) .....	49 App.:1421(f)(2), (4).	
44716(c) .....	49 App.:1421(f)(3).	
44716(d) .....	49 App.:1421(f)(5).	
44716(e) .....	49 App.:1421 (note).	Dec. 30, 1987, Pub. L. 100-223, §203(d), 101 Stat. 1519.
44716(f) .....	49 App.:1421(f)(6).	

In subsection (c), the words “In conducting the program” are omitted as surplus.

In subsection (e)(1), the word “research” is omitted as included in “developing”.

In subsection (e)(2), the words “established under section 9502 of the Internal Revenue Code of 1986 (26 U.S.C. 9502)” are added for consistency in the revised title.

In subsection (f), the words “Not later than 6 months after December 30, 1987, the Administrator shall promulgate a final rule” and “Such final rule” are omitted as executed.

**Editorial Notes**

AMENDMENTS

2000—Subsec. (g). Pub. L. 106-181 added subsec. (g).

**Statutory Notes and Related Subsidiaries**

EFFECTIVE DATE OF 2000 AMENDMENT

Amendment by Pub. L. 106-181 applicable only to fiscal years beginning after Sept. 30, 1999, see section 3 of