

Space Administration shall encourage the participation of the Department of Defense, the Department of the Interior, the airtour industry, the aviation industry, academia and other appropriate groups.

(d) **REPORT.**—Not less than 280 days after August 23, 1994, the Administrator of the Federal Aviation Administration and the Administrator of the National Aeronautics and Space Administration shall transmit to Congress a report on the results of the study required under subsection (a).

(e) **RESEARCH AND DEVELOPMENT PROGRAM.**—If the Administrator of the Federal Aviation Administration and the Administrator of the National Aeronautics and Space Administration determine that additional research and development is necessary and would substantially contribute to the development of quiet aircraft technology, then the agencies shall conduct an appropriate research program in consultation with the entities listed in subsection (c) to develop safe, effective, and economical noise reduction technology (including technology that can be applied to existing propeller driven aircraft and rotorcraft) that would result in aircraft that operate at substantially reduced levels of noise to reduce the impact of such aircraft and rotorcraft on the resources of national parks and other areas.

(Added Pub. L. 103-305, title III, §308(a), Aug. 23, 1994, 108 Stat. 1593; amended Pub. L. 104-287, §5(86), Oct. 11, 1996, 110 Stat. 3398.)

#### Editorial Notes

##### AMENDMENTS

1996—Subsec. (d). Pub. L. 104-287 substituted “August 23, 1994” for “the date of the enactment of this section”.

#### § 47510. Tradeoff allowance

Notwithstanding another law or a regulation prescribed or order issued under that law, the tradeoff provisions contained in appendix C of part 36 of title 14, Code of Federal Regulations, apply in deciding whether an aircraft complies with subpart I of part 91 of title 14.

(Added Pub. L. 103-429, §6(72)(A), Oct. 31, 1994, 108 Stat. 4387.)

##### HISTORICAL AND REVISION NOTES

Revised Section	Source (U.S. Code)	Source (Statutes at Large)
47510 .....	49 App.:2125.	Feb. 18, 1980, Pub. L. 96-193, §305, 94 Stat. 57.

The word “prescribed” is added for consistency in the revised title and with other titles of the United States Code. The words “subpart I of part 91” are substituted for “subpart E of part 91” because of the restatement of part 91. See 54 Fed. Reg. 34321 (Aug. 18, 1989).

#### § 47511. CLEEN engine and airframe technology partnership

(a) **IN GENERAL.**—The Administrator of the Federal Aviation Administration shall enter into a cost-sharing cooperative agreement, using a competitive process, with institutions, entities, or consortiums to carry out a program for the development, maturation, and testing of

certifiable CLEEN aircraft, engine technologies, and jet fuels for civil airplanes.

(b) **CLEEN ENGINE AND AIRFRAME TECHNOLOGY DEFINED.**—In this section, the term “CLEEN aircraft and engine technology” means continuous lower energy, emissions, and noise aircraft and engine technology.

(c) **PERFORMANCE OBJECTIVE.**—The Administrator shall establish the performance objectives for the program in terms of the specific objectives to reduce fuel burn, emissions and noise.

(d) **SELECTION.**—In carrying out the program, the Administrator may provide that not less than 2 of the cooperative agreements entered into under this section involve the participation of an entity that is a small business concern (as defined in section 3 of the Small Business Act (15 U.S.C. 632)), provided that the submitted technology proposal of the entity meets, at a minimum, FAA Acquisition Management System requirements and requisite technology readiness levels for entry into the agreement, as determined by the Administrator.

(Added Pub. L. 115-254, div. B, title VII, §743(a), Oct. 5, 2018, 132 Stat. 3413; amended Pub. L. 118-63, title X, §1008, May 16, 2024, 138 Stat. 1389.)

#### Editorial Notes

##### AMENDMENTS

2024—Subsec. (a). Pub. L. 118-63, §1008(1), struck out “subsonic” after “fuels for civil”.  
Subsec. (d). Pub. L. 118-63, §1008(2), added subsec. (d).

#### SUBCHAPTER II—NATIONAL AVIATION NOISE POLICY

#### § 47521. Findings

Congress finds that—

(1) aviation noise management is crucial to the continued increase in airport capacity;

(2) community noise concerns have led to uncoordinated and inconsistent restrictions on aviation that could impede the national air transportation system;

(3) a noise policy must be carried out at the national level;

(4) local interest in aviation noise management shall be considered in determining the national interest;

(5) community concerns can be alleviated through the use of new technology aircraft and the use of revenues, including those available from passenger facility charges, for noise management;

(6) revenues controlled by the United States Government can help resolve noise problems and carry with them a responsibility to the national airport system;

(7) revenues derived from a passenger facility charge may be applied to noise management and increased airport capacity; and

(8) a precondition to the establishment and collection of a passenger facility charge is the prescribing by the Secretary of Transportation of a regulation establishing procedures for reviewing airport noise and access restrictions on operations of stage 2 and stage 3 aircraft.

(Pub. L. 103-272, §1(e), July 5, 1994, 108 Stat. 1287; Pub. L. 112-95, title I, §111(c)(2)(A)(vi), (B), Feb. 14, 2012, 126 Stat. 18.)

HISTORICAL AND REVISION NOTES

Revised Section	Source (U.S. Code)	Source (Statutes at Large)
47521 .....	49 App.:2151.	Nov. 5, 1990, Pub. L. 101-508, § 9302, 104 Stat. 1388-378.

Editorial Notes

AMENDMENTS

2012—Par. (5), Pub. L. 112-95, § 111(c)(2)(B), substituted “charges” for “fees”.  
 Pars. (7), (8), Pub. L. 112-95, § 111(c)(2)(A)(vi), substituted “charge” for “fee”.

Statutory Notes and Related Subsidiaries

AUTHORIZATION OF CERTAIN FLIGHTS BY STAGE 2 AIRCRAFT

Pub. L. 115-254, div. B, title I, § 172, Oct. 5, 2018, 132 Stat. 3227, provided that:

“(a) IN GENERAL.—Notwithstanding chapter 475 of title 49, United States Code, not later than 180 days after the date of enactment of this Act [Oct. 5, 2018], the Administrator of the Federal Aviation Administration shall initiate a pilot program to permit an operator of a stage 2 aircraft to operate that aircraft in nonrevenue service into not more than 4 medium hub airports or nonhub airports if—

- “(1) the airport—
  - “(A) is certified under part 139 of title 14, Code of Federal Regulations;
  - “(B) has a runway that—
    - “(i) is longer than 8,000 feet and not less than 200 feet wide; and
    - “(ii) is load bearing with a pavement classification number of not less than 38; and
  - “(C) has a maintenance facility with a maintenance certificate issued under part 145 of such title; and
- “(2) the operator of the stage 2 aircraft operates not more than 10 flights per month using that aircraft.

“(b) TERMINATION.—The pilot program shall terminate on the earlier of—

- “(1) the date that is 10 years after the date of the enactment of this Act [Oct. 5, 2018]; or
- “(2) the date on which the Administrator determines that no stage 2 aircraft remain in service.

“(c) DEFINITIONS.—In this section:

“(1) MEDIUM HUB AIRPORT; NONHUB AIRPORT.—The terms ‘medium hub airport’ and ‘nonhub airport’ have the meanings given those terms in section 40102 of title 49, United States Code.

“(2) STAGE 2 AIRCRAFT.—The term ‘stage 2 aircraft’ has the meaning given the term ‘stage 2 airplane’ in section 91.851 of title 14, Code of Federal Regulations (as in effect on the day before the date of the enactment of this Act [Oct. 5, 2018]).”

§ 47522. Definitions

In this subchapter—

- (1) “air carrier”, “air transportation”, and “United States” have the same meanings given those terms in section 40102(a) of this title.
- (2) “stage 3 noise levels” means the stage 3 noise levels in part 36 of title 14, Code of Federal Regulations, in effect on November 5, 1990.

(Pub. L. 103-272, §1(e), July 5, 1994, 108 Stat. 1288.)

HISTORICAL AND REVISION NOTES

Revised Section	Source (U.S. Code)	Source (Statutes at Large)
47522 .....	49 App.:2157(h).	Nov. 5, 1990, Pub. L. 101-508, § 9308(h), 104 Stat. 1388-384.

The definitions are made applicable to all of subchapter II, rather than only to those provisions based on 49 App.:2157 as in the source provisions, because the defined terms appear in several sections of subchapter II and it is assumed they are intended to have the same meaning in each of those sections.

§ 47523. National aviation noise policy

(a) GENERAL REQUIREMENTS.—Not later than July 1, 1991, the Secretary of Transportation shall establish by regulation a national aviation noise policy that considers this subchapter, including the phaseout and nonaddition of stage 2 aircraft as provided in this subchapter and dates for carrying out that policy and reporting requirements consistent with this subchapter and law existing as of November 5, 1990.

(b) DETAILED ECONOMIC ANALYSIS.—The policy shall be based on a detailed economic analysis of the impact of the phaseout date for stage 2 aircraft on competition in the airline industry, including—

- (1) the ability of air carriers to achieve capacity growth consistent with the projected rate of growth for the airline industry;
- (2) the impact of competition in the airline and air cargo industries;
- (3) the impact on nonhub and small community air service; and
- (4) the impact on new entry into the airline industry.

(Pub. L. 103-272, §1(e), July 5, 1994, 108 Stat. 1288.)

HISTORICAL AND REVISION NOTES

Revised Section	Source (U.S. Code)	Source (Statutes at Large)
47523 .....	49 App.:2152.	Nov. 5, 1990, Pub. L. 101-508, § 9303, 104 Stat. 1388-378.

In this section, the text of 49 App.:2152(c) is omitted as executed.

In subsection (a), the words “(hereinafter in this chapter referred to as the ‘Secretary’)” are omitted because of the restatement. The words “this subchapter” (the first time they appear) are substituted for “the findings, determinations, and provisions of this chapter” to eliminate unnecessary words.

Subsection (b) is tabulated for clarity.

§ 47524. Airport noise and access restriction review program

(a) GENERAL REQUIREMENTS.—The national aviation noise policy established under section 47523 of this title shall provide for establishing by regulation a national program for reviewing airport noise and access restrictions on the operation of stage 2 and stage 3 aircraft. The program shall provide for adequate public notice and opportunity for comment on the restrictions.

(b) STAGE 2 AIRCRAFT.—Except as provided in subsection (d) of this section, an airport noise or access restriction may include a restriction on the operation of stage 2 aircraft proposed after October 1, 1990, only if the airport operator publishes the proposed restriction and prepares and makes available for public comment at least 180 days before the effective date of the proposed restriction—

- (1) an analysis of the anticipated or actual costs and benefits of the existing or proposed restriction;