

(4) Include requirements for the safe operation of small unmanned aircraft systems that, at a minimum, address—

(A) airworthiness of small unmanned aircraft systems;

(B) qualifications for operators and the type and nature of the operations;

(C) operating specifications governing the type and nature of the unmanned aircraft system air carrier operations; and

(D) the views of State, local, and tribal officials related to potential impacts of the carriage of property by operators of small unmanned aircraft systems for compensation or hire within the communities to be served.

(5) **SMALL UAS.**—The Secretary may amend part 298 of title 14, Code of Federal Regulations, to update existing regulations to establish economic authority for the carriage of property by small unmanned aircraft systems for compensation or hire. Such authority shall only require—

(A) registration with the Department of Transportation;

(B) authorization from the Federal Aviation Administration to conduct operations; and

(C) compliance with chapters 401, 411, and 417.

(6) **AVAILABILITY OF CURRENT CERTIFICATION PROCESSES.**—Pending completion of the rule-making required in subsection (a) of this section, a person may seek an air carrier operating certificate and certificate of public convenience and necessity, or an exemption from such certificate, using existing processes.

(Added Pub. L. 115-254, div. B, title III, §348(a), Oct. 5, 2018, 132 Stat. 3297.)

Editorial Notes

REFERENCES IN TEXT

The date of enactment of the FAA Reauthorization Act of 2018, referred to in subsec. (a), is the date of enactment of Pub. L. 115-254, which was approved Oct. 5, 2018.

§ 44809. Exception for limited recreational operations of unmanned aircraft

(a) **IN GENERAL.**—Except as provided in subsection (e), and notwithstanding chapter 447 of title 49, United States Code, a person may operate a small unmanned aircraft without specific certification or operating authority from the Federal Aviation Administration if the operation adheres to all of the following limitations:

(1) The aircraft is flown strictly for recreational purposes.

(2) The aircraft is operated in accordance with or within the programming of a community-based organization's set of safety guidelines that are developed in coordination with the Federal Aviation Administration.

(3) The aircraft is flown within the visual line of sight of the person operating the aircraft or a visual observer co-located and in direct communication with the operator.

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

(5) In Class B, Class C, or Class D airspace or within the lateral boundaries of the surface area of Class E airspace designated for an airport, the operator obtains prior authorization from the Administrator or designee before operating and complies with all airspace restrictions and prohibitions.

(6) Except for circumstances when the Administrator establishes alternative altitude ceilings or as otherwise authorized in section (c), in Class G airspace, the aircraft is flown from the surface to not more than 400 feet above ground level and complies with all airspace and flight restrictions and prohibitions established under this subtitle, such as special use airspace designations and temporary flight restrictions.

(7) The operator has passed an aeronautical knowledge and safety test described in subsection (g) and maintains proof of test passage to be made available to the Administrator or law enforcement upon request.

(8) The aircraft is registered and marked in accordance with chapter 441 of this title and proof of registration is made available to the Administrator or a designee of the Administrator or law enforcement upon request.

(b) **OTHER OPERATIONS.**—Unmanned aircraft operations that do not conform to the limitations in subsection (a) must comply with all statutes and regulations generally applicable to unmanned aircraft and unmanned aircraft systems.

(c) **OPERATIONS AT FIXED SITES.**—

(1) **IN GENERAL.**—The Administrator shall establish a process to approve, and publicly disseminate the location of, fixed sites at which a person may carry out recreational unmanned aircraft system operations.

(2) **OPERATING PROCEDURES.**—

(A) **CONTROLLED AIRSPACE.**—Persons operating unmanned aircraft under paragraph (1) from a fixed site within Class B, Class C, or Class D airspace or within the lateral boundaries of the surface area of Class E airspace designated for an airport, or a community-based organization sponsoring operations within such airspace, shall make the location of the fixed site known to the Administrator and shall establish a mutually agreed upon operating procedure with the air traffic control facility.

(B) **ALTITUDE.**—The Administrator, in coordination with community-based organizations sponsoring operations at fixed sites, shall develop a process to approve requests for recreational unmanned aircraft systems operations at fixed sites that exceed the maximum altitude contained in a UAS Facility Map published by the Federal Aviation Administration.

(C) **UNCONTROLLED AIRSPACE.**—Subject to compliance with all airspace and flight restrictions and prohibitions established under this subtitle, including special use airspace designations and temporary flight restrictions, persons operating unmanned aircraft systems from a fixed site designated under the process described in paragraph (1) may operate within Class G airspace—

(i) up to 400 feet above ground level, without prior authorization from the Administrator; and

(ii) above 400 feet above ground level, with prior authorization from the Administrator.

(3) UNMANNED AIRCRAFT WEIGHING 55 POUNDS OR GREATER.—A person may operate an unmanned aircraft weighing 55 pounds or greater, including the weight of anything attached to or carried by the aircraft, if—

(A) the unmanned aircraft complies with standards and limitations developed by a community-based organization and approved by the Administrator; and

(B) the aircraft is operated from a fixed site as described in paragraph (1).

(4) FAA-RECOGNIZED IDENTIFICATION AREAS.—In implementing subpart C of part 89 of title 14, Code of Federal Regulations, the Administrator shall prioritize the review and adjudication of requests to establish FAA Recognized Identification Areas at fixed sites established under this section.

(d) SAVINGS CLAUSE.—Nothing in this subsection shall be construed as expanding the authority of the Administrator to require a person operating an unmanned aircraft under this section to seek permissive authority of the Administrator, beyond that required in this section, prior to operation in the national airspace system.

(e) STATUTORY CONSTRUCTION.—Nothing in this section shall be construed to limit the authority of the Administrator to pursue an enforcement action against a person operating any unmanned aircraft who endangers the safety of the national airspace system.

(f) EXCEPTIONS.—Nothing in this section prohibits the Administrator from promulgating rules generally applicable to unmanned aircraft, including those unmanned aircraft eligible for the exception set forth in this section, relating to—

(1) the operational parameters for unmanned aircraft in subsection (a);

(2) the registration and marking of unmanned aircraft;

(3) the standards for remotely identifying owners and operators of unmanned aircraft systems and associated unmanned aircraft; and

(4) other standards consistent with maintaining the safety and security of the national airspace system.

(g) AERONAUTICAL KNOWLEDGE AND SAFETY TEST.—

(1) IN GENERAL.—The Administrator, in consultation with manufacturers of unmanned aircraft systems, community-based organizations, and other industry stakeholders, shall develop, maintain, and update, as necessary, an aeronautical knowledge and safety test. Such test shall be administered electronically by the Administrator or a person designated by the Administrator.

(2) REQUIREMENTS.—The Administrator shall ensure the aeronautical knowledge and safety test is designed to adequately demonstrate an operator's—

(A) understanding of aeronautical safety knowledge; and

(B) knowledge of Federal Aviation Administration regulations and requirements pertaining to the operation of an unmanned aircraft system in the national airspace system.

(h) COMMUNITY-BASED ORGANIZATION DEFINED.—In this section, the term “community-based organization” means a membership-based association entity that—

(1) is recognized by the Administrator of the Federal Aviation Administration;

(2) is described in section 501(c)(3) of the Internal Revenue Code of 1986;

(3) is exempt from tax under section 501(a) of the Internal Revenue Code of 1986;

(4) the mission of which is demonstrably the furtherance of model aviation;

(5) provides a comprehensive set of safety guidelines for all aspects of model aviation addressing the assembly and operation of model aircraft and that emphasize safe aeromodeling operations within the national airspace system and the protection and safety of individuals and property on the ground, and may provide a comprehensive set of safety rules and programming for the operation of unmanned aircraft that have the advanced flight capabilities enabling active, sustained, and controlled navigation of the aircraft beyond visual line of sight of the operator;

(6) provides programming and support for any local charter organizations, affiliates, or clubs; and

(7) provides assistance and support in the development and operation of locally designated model aircraft flying sites.

(i) RECOGNITION OF COMMUNITY-BASED ORGANIZATIONS.—In collaboration with aeromodeling stakeholders, the Administrator shall publish an advisory circular within 180 days of the date of enactment of this section that identifies the criteria and process required for recognition of community-based organizations.

(Added Pub. L. 115-254, div. B, title III, § 349(a), Oct. 5, 2018, 132 Stat. 3298; amended Pub. L. 118-63, title IX, § 928(a), May 16, 2024, 138 Stat. 1363.)

Editorial Notes

REFERENCES IN TEXT

Section 501 of the Internal Revenue Code of 1986, referred to in subsec. (h)(2), (3), is classified to section 501 of Title 26, Internal Revenue Code.

The date of enactment of this section, referred to in subsec. (i), is the date of enactment of Pub. L. 115-254, which was approved Oct. 5, 2018.

PRIOR PROVISIONS

Provisions similar to those in subsecs. (a) and (e) of this section were contained in section 336(a) and (b) of Pub. L. 112-95, which was set out in a note under section 40101 of this title, prior to repeal by Pub. L. 115-254, div. B, title III, § 349(b)(2), Oct. 5, 2018, 132 Stat. 3300. The remainder of the note comprised of subtitle B of title III of Pub. L. 112-95 was transferred and is set out under section 44802 of this title.

AMENDMENTS

2024—Subsec. (a)(6). Pub. L. 118-63, § 928(a)(1), added par. (6) and struck out former par. (6) which read as fol-

lows: “In Class G airspace, the aircraft is flown from the surface to not more than 400 feet above ground level and complies with all airspace restrictions and prohibitions.”

Subsec. (c). Pub. L. 118–63, §928(a)(2), added subsec. (c) and struck out former subsec. (c) which related to operations at fixed sites.

Subsec. (d). Pub. L. 118–63, §928(a)(3), struck out “subsection (a) of” before “this section, prior to” in par. (3) and substituted subsec. (d) designation and heading for “(d) UPDATES”, pars. (1) and (2), and “(3) SAVINGS CLAUSE”. Prior to amendment, pars. (1) and (2) related to process to periodically update operational parameters and related considerations.

Subsec. (f)(1). Pub. L. 118–63, §928(a)(4), struck out “updates to” before “the operational parameters”.

Subsec. (g)(1). Pub. L. 118–63, §928(a)(5), added par. (1) and struck out former par. (1). Prior to amendment, text of par. (1) read as follows: “Not later than 180 days after the date of enactment of this section, the Administrator, in consultation with manufacturers of unmanned aircraft systems, other industry stakeholders, and community-based organizations, shall develop an aeronautical knowledge and safety test, which can then be administered electronically by the Administrator, a community-based organization, or a person designated by the Administrator.”

Subsec. (h). Pub. L. 118–63, §928(a)(6), added par. (1) and redesignated former pars. (1) to (6) as (2) to (7), respectively.

Statutory Notes and Related Subsidiaries

USE OF UNMANNED AIRCRAFT SYSTEMS FOR EDUCATIONAL PURPOSES

Pub. L. 115–254, div. B, title III, §350, Oct. 5, 2018, 132 Stat. 3300, as amended by Pub. L. 116–283, div. H, title C, §10002, Jan. 1, 2021, 134 Stat. 4863; Pub. L. 118–63, title IX, §928(b), May 16, 2024, 138 Stat. 1365, provided that:

“(a) EDUCATIONAL AND RESEARCH PURPOSES.—For the purposes of section 44809 of title 49, United States Code, as added by this Act, a ‘recreational purpose’ as distinguished in subsection (a)(1) of such section shall include an unmanned aircraft system—

“(1) operated by an institution of higher education for educational or research purposes;

“(2) operated by an elementary school, a secondary school, or an institution of higher education for educational or research purposes;

“(3) flown as part of an established Junior Reserve Officers’ Training Corps (JROTC) program for educational or research purposes; or

“(4) flown as part of an educational program that is chartered by a recognized community-based organization (as defined in subsection (h) of such section).

“(b) UPDATES.—In updating an operational parameter under subsection (d)(1) of such section for unmanned aircraft systems operated by an institution of higher education for educational or research purposes, the Administrator shall consider—

“(1) use of small unmanned aircraft systems and operations at an accredited institution of higher education, for educational or research purposes, as a component of the institution’s curricula or research;

“(2) the development of streamlined, risk-based operational approval for unmanned aircraft systems operated by institutions of higher education; and

“(3) the airspace and aircraft operators that may be affected by such operations at the institution of higher education.

“(c) DEADLINE FOR ESTABLISHMENT OF PROCEDURES AND STANDARDS.—Not later than 270 days after the date of enactment of this Act [Oct. 5, 2018], the Administrator of the Federal Aviation Administration may establish regulations, procedures, and standards, as necessary, to facilitate the safe operation of unmanned aircraft systems operated by institutions of higher education for educational or research purposes.

“(d) DEFINITIONS.—In this section:

“(1) INSTITUTION OF HIGHER EDUCATION.—The term ‘institution of higher education’ has the meaning given to that term by section 101(a) of the Higher Education Act of 1965 (20 U.S.C. 1001(a)).

“(2) EDUCATIONAL OR RESEARCH PURPOSES.—The term ‘education or research purposes’, with respect to the operation of an unmanned aircraft system by an institution of higher education, an elementary school, or a secondary school includes—

“(A) instruction of students at the institution;

“(B) academic or research related uses of unmanned aircraft systems that have been approved by the institution, including Federal research;

“(C) activities undertaken by the institution as part of research projects, including research projects sponsored by the Federal Government; and

“(D) other academic activities approved by the institution.

“(3) ELEMENTARY SCHOOL.—The term ‘elementary school’ has the meaning given to that term by section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801(19)).

“(4) SECONDARY SCHOOL.—The term ‘secondary school’ has the meaning given to that term by section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801(45)).

“(e) STATUTORY CONSTRUCTION.—

“(1) ENFORCEMENT.—Nothing in this section shall be construed to limit the authority of the Administrator to pursue an enforcement action against a person operating any unmanned aircraft who endangers the safety of the national airspace system.

“(2) REGULATIONS AND STANDARDS.—Nothing in this section prohibits the Administrator from promulgating any rules or standards consistent with maintaining the safety and security of the national airspace system.”

§ 44810. Airport safety and airspace hazard mitigation and enforcement

(a) COORDINATION.—The Administrator of the Federal Aviation Administration shall work with the Secretary of Defense, the Secretary of Homeland Security, and the heads of other relevant Federal departments and agencies for the purpose of ensuring that technologies or systems that are developed, tested, or deployed by Federal departments and agencies to detect and mitigate potential risks posed by errant or hostile unmanned aircraft system operations do not adversely impact or interfere with safe airport operations, navigation, air traffic services, or the safe and efficient operation of the national airspace system.

(b) PLAN.—

(1) IN GENERAL.—The Administrator shall develop a plan for the certification, permitting, authorizing, or allowing of the deployment of technologies or systems for the detection and mitigation of unmanned aircraft systems.

(2) CONTENTS.—The plan shall provide for the development of policies, procedures, or protocols that will allow appropriate officials of the Federal Aviation Administration to utilize such technologies or systems to take steps to detect and mitigate potential airspace safety risks posed by unmanned aircraft system operations.

(3) AVIATION RULEMAKING COMMITTEE.—The Administrator shall charter an aviation rulemaking committee to make recommendations for such a plan and any standards that the Administrator determines may need to be developed with respect to such technologies or systems. The Federal Advisory Committee Act (5