116TH CONGRESS 2D SESSION	<b>S.</b>
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To amend title 49, United States Code, to reform the Federal Aviation Administration's aircraft certification process, and for other purposes.

## IN THE SENATE OF THE UNITED STATES

Mr. Wicker (for himself and Ms. Cantwell) introduced the following bill; which was read twice and referred to the Committee on

# A BILL

To amend title 49, United States Code, to reform the Federal Aviation Administration's aircraft certification process, 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.
- 4 This Act may be cited as the "Aircraft Safety and
- 5 Certification Reform Act of 2020".
- 6 SEC. 2. TABLE OF CONTENTS.
- 7 The table of contents of this Act is as follows:
  - Sec. 1. Short title.
  - Sec. 2. Table of contents.
  - Sec. 3. Definitions.
  - Sec. 4. Safety management system for manufacturers.

- Sec. 5. Organization designation authorization.
- Sec. 6. Best practices for organization designation authorizations.
- Sec. 7. Review of human factors assumptions.
- Sec. 8. Human factors research.
- Sec. 9. FAA center of excellence for flight automation and human factors in aircraft.
- Sec. 10. Certification pilot operational evaluations.
- Sec. 11. FAA continuing education and training.
- Sec. 12. Authorization of appropriations for scientific and technical advisors.
- Sec. 13. Prohibition on certain performance-based incentives.
- Sec. 14. Safety reporting program.
- Sec. 15. Protection of whistleblowers.
- Sec. 16. Repeal of design and production organization certificate authority.
- Sec. 17. Ensuring appropriate responsibility of aircraft certification and flight standards performance objectives and metrics.
- Sec. 18. Review of FAA certification expertise.

#### 1 SEC. 3. DEFINITIONS.

- 2 In this Act:
- 3 (1) ADMINISTRATOR.—The term "Adminis-
- 4 trator' means the Administrator of the FAA.
- 5 (2) APPROPRIATE COMMITTEES OF CON-
- 6 GRESS.—The term "appropriate committees of Con-
- 7 gress" means the Committee on Commerce, Science,
- 8 and Transportation of the Senate and the Com-
- 9 mittee on Transportation and Infrastructure of the
- House of Representatives.
- 11 (3) FAA.—The term "FAA" means the Fed-
- eral Aviation Administration.
- 13 SEC. 4. SAFETY MANAGEMENT SYSTEM FOR MANUFACTUR-
- 14 ERS.
- 15 (a) Rulemaking Proceeding.—
- 16 (1) In General.—The Administrator shall con-
- duct a rulemaking proceeding to require that manu-
- facturers that hold both a type certificate and a pro-

- duction certificate issued pursuant to section 44704
- of title 49, United States Code, where the United
- 3 States is the State of Design and State of Manufac-
- 4 ture, have in place a safety management system that
- 5 is consistent with the standards established by the
- 6 International Civil Aviation Organization for such
- 7 systems.
- 8 (2) Aviation rulemaking committee.—Not
- 9 later than 90 days after the date of enactment of
- this Act, the Administrator shall establish an avia-
- 11 tion rulemaking committee to make recommenda-
- tions on the rulemaking to be carried out under
- paragraph (1).
- 14 (b) Final Rule Deadline.—Not later than 24
- 15 months after establishing the aviation rulemaking com-
- 16 mittee under subsection (a)(2), the Administrator shall
- 17 issue a final rule pursuant to the rulemaking proceeding
- 18 required under subsection (a).
- 19 (c) Surveillance and Audit Requirement.—
- 20 The final rule issued pursuant to subsection (b) shall in-
- 21 clude a requirement for the Administrator to implement
- 22 a documented surveillance process by defining and plan-
- 23 ning inspections, audits, and monitoring activities on a
- 24 continuous basis, to ensure that design and production ap-
- 25 proval holders of aviation products meet and continue to

1 meet safety management system requirements under the

2 rule.

#### 3 SEC. 5. ORGANIZATION DESIGNATION AUTHORIZATION.

- 4 (a) APPROVAL OF ODA UNIT MEMBERS.—Section
- 5 44736 of title 49, United States Code, is amended by add-
- 6 ing at the end the following:
- 7 "(d) Approval of ODA Unit Members.—
- 8 "(1) IN GENERAL.—Beginning on the date that 9 is 1 year after the date of enactment of this sub-10 section, each individual who is a new member of an 11 ODA unit of an ODA holder and performs an au-12 thorized function pursuant to a delegation by the 13 Administrator under section 44702(d) shall be an 14 employee, a contractor, or the employee of a supplier 15 of the ODA holder who is approved to be a member 16 of the unit by the Administrator. The ODA holder 17 may make provisional appointments of ODA unit 18 members pending final approval by the Adminis-19 trator. The Administrator shall approve or reject ap-20 pointments within 120 days.
  - "(2) QUALIFICATIONS.—In approving appointments to an ODA unit, the Administrator shall take into account the technical proficiency and expertise of individuals. The Administrator shall issue minimum qualifications for ODA members that are sub-

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1	ject to approval by the Administrator pursuant to
2	paragraph (1).
3	"(3) Rescission of Approval.—The Adminis-
4	trator may rescind an approval of an appointment to
5	a ODA unit at any time for any reason the Adminis-
6	trator considers appropriate. The Administrator
7	shall develop procedures to provide for proper notice
8	and opportunity to appeal rescission decisions made
9	by the Administrator. Such decisions by the Admin-
10	istrator are not subject to judicial review.
11	"(4) RECORDS AND REPORTS.—An ODA holder
12	shall maintain, for a period to be determined by the
13	Administrator—
14	"(A) any data, applications, records, or
15	manuals required by the ODA holder's ap-
16	proved procedures manual, as determined by
17	the Administrator;
18	"(B) the names, responsibilities, qualifica-
19	tions, and example signature of each member of
20	the ODA unit who performs an authorized
21	function pursuant to a delegation by the Ad-
22	ministrator under section 44702(d);
23	"(C) training records for ODA unit mem-
24	bers and ODA administrators; and

1	"(D) any other data, applications, records,
2	or manuals determined appropriate by the Ad-
3	ministrator.
4	"(5) Audits.—
5	"(A) IN GENERAL.—The Administrator
6	shall perform a periodic audit of each ODA unit
7	and its procedures.
8	"(B) DURATION.—An audit required under
9	subparagraph (A) shall be performed with re-
10	spect to an ODA holder once every 3 years (or
11	more frequently as determined appropriate by
12	the Administrator).
13	"(C) Records.—The ODA holder shall
14	maintain, for a period to be determined by the
15	Administrator, a record of—
16	"(i) each audit conducted under this
17	paragraph; and
18	"(ii) any corrective actions resulting
19	from each such audit.
20	"(e) Federal Aviation Safety Advisors.—For
21	ODA holders that are manufacturers that hold both a type
22	and a production certificate for transport category air-
23	planes with a maximum takeoff gross weight greater than
24	150,000 pounds and manufacturers of engines for such
25	airplanes, the Administrator shall assign FAA aviation

1 safety engineers or inspectors with appropriate expertise

- 2 to be advisors to the ODA unit members that are author-
- 3 ized to make findings of compliance on behalf of the Ad-
- 4 ministrator. Advisors shall communicate with assigned
- 5 unit members on an ongoing basis to ensure that they are
- 6 knowledgeable of relevant FAA policies and acceptable
- 7 methods of compliance and shall monitor their perform-
- 8 ances to ensure consistency with those policies.
- 9 "(f) COMMUNICATION WITH THE FAA.—Neither the
- 10 Administrator nor an ODA holder may prohibit an ODA
- 11 unit member from communicating with, or seeking the ad-
- 12 vice of, the Administrator or FAA staff.".
- 13 (b) Report.—Not later than September 30, 2022,
- 14 the Administrator shall submit to the appropriate commit-
- 15 tees of Congress a report on the implementation of sub-
- 16 sections (d) through (f) of section 44736 of title 49,
- 17 United States Code, as added by subsection (a).
- 18 SEC. 6. BEST PRACTICES FOR ORGANIZATION DESIGNA-
- 19 TION AUTHORIZATIONS.
- 20 (a) In General.—Section 213 of the FAA Reau-
- 21 thorization Act of 2018 (Public Law 115-254, 132 Stat.
- 22 3249) is amended—
- 23 (1) by striking subsection (g);
- 24 (2) by redesignating subsections (c) through (f)
- as subsections (d) through (g), respectively;

1	(3) by inserting after subsection (b), the fol-
2	lowing:
3	"(c) Best Practices Review.—In addition to con-
4	ducting the survey required under subsection (b), the
5	Panel shall conduct a review of all ODA holders to identify
6	and develop best practices. At a minimum, the best prac-
7	tices shall address preventing and deterring instances of
8	undue pressure on or by an ODA unit member, within an
9	ODA, or by an ODA holder, or instances of perceived reg-
10	ulatory coziness or other failures to maintain independ-
11	ence between the FAA and an ODA holder or ODA unit
12	member. In carrying out such review, the Panel shall—
13	"(1) examine other government regulated indus-
14	tries to gather lessons learned, procedures, or proc-
15	esses that address undue pressure of employees, per-
16	ceived regulatory coziness, or other failures to main-
17	tain independence;
18	"(2) identify ways to improve communications
19	between an ODA Administrator, ODA unit mem-
20	bers, and FAA engineers and inspectors, consistent
21	with section 44736(g) of title 49, United States
22	Code, in order to enable direct communication of
23	technical concerns that arise during a certification
24	project without fear of reprisal to the ODA Adminis-
25	trator or ODA unit member; and

1	"(3) examine the FAA Designee Program, in-
2	cluding the assignment of FAA advisors to des-
3	ignees, to determine which components of the pro-
4	gram may improve the FAA's oversight of ODA
5	units, ODA unit members, and the ODA program.";
6	(4) in subsection (d) (as redesignated by para-
7	graph (2))—
8	(A) by striking paragraph (3) and redesig-
9	nating paragraphs (4) through (6) as para-
10	graphs (3) through (5), respectively;
11	(B) in paragraph (4) (as redesignated by
12	subparagraph (A)), by striking "and" at the
13	end;
14	(C) in paragraph (5) (as so redesignated),
15	by striking the period at the end and inserting
16	"; and; and
17	(D) by adding at the end the following:
18	"(6) the results of the review conducted under
19	subsection (c)."; and
20	(5) by inserting after subsection (g) (as redesig-
21	nated by paragraph (2)), the following:
22	"(h) Best Practices Adoption.—
23	"(1) In general.—Not later than 180 days
24	after the date on which the Administrator receives
25	the report required under subsection (e), the Admin-

1	istrator shall establish best practices for all ODA
2	holders and require such practices, as appropriate,
3	to be incorporated into each ODA holder's approved
4	procedures manual.
5	"(2) Notice and comment period.—The Ad-
6	ministrator shall publish the established best prac-
7	tices for public notice and comment for not fewer
8	than 60 days prior to requiring the practices, as ap-
9	propriate, be incorporated into each ODA holder's
10	approved procedures manual.
11	"(i) Sunset.—The Panel shall terminate on the ear-
12	lier of—
13	"(1) the date of submission of the report under
14	subsection (e); or
15	"(2) the date that is 2 years after the date on
16	which the Panel is first convened under subsection
17	(a).".
18	(b) Procedures Manual.—Section 44736(b)(3) of
19	title 49, United States Code, is amended—
20	(1) in subparagraph (E), by striking "and"
21	after the semicolon at the end;
22	(2) in subparagraph (F), by striking the period
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23	at the end and inserting "; and"; and

1	"(G) ensure the ODA holders procedures
2	manual contains procedures and policies based
3	on best practices established by the Adminis-
4	trator of the FAA to mitigate undue pressure
5	and regulatory coziness or other failures to
6	maintain independence.".
7	SEC. 7. REVIEW OF HUMAN FACTORS ASSUMPTIONS.
8	(a) Human Factors in Certification.—Not later
9	than 60 days after the date of enactment of this Act, the
10	Administrator shall initiate a review and may, after such
11	review and as necessary, revise existing regulations, in-
12	cluding, but not limited to, sections 25.1302, 25.1309, and
13	25.1322 of title 14, Code of Federal Regulations, and sup-
14	porting policies, guidelines, and advisory circulars, to inte-
15	grate and emphasize human factors and human system
16	integration, particularly those related to pilot and aircraft
17	interfaces.
18	(b) Review.—In carrying out subsection (a), the Ad-
19	ministrator shall—
20	(1) review existing assumptions on pilot rec-
21	ognition and response, including response to safety-
22	significant failure conditions, as part of the certifi-
23	cation process;
24	(2) validate such assumptions with applicable
25	human factors research and the input of human fac-

tors experts, and as necessary modify the existing
assumptions;

- (3) ensure that when carrying out the certification of a new aircraft type, including an amended or supplemental type, the cumulative impact that new technologies may have on pilot response are properly assessed through system safety assessments or otherwise;
- (4) ensure that any action carried out under this section accounts for the necessary adjustments to system safety assessments, pilot procedures and training needs, and design requirements; and
- (5) notify other international regulators that certify transport-category airplane type designs of the review and encourage them to evaluate any regulatory changes to their processes and address any changes, if applicable.
- 18 (c) Report.—Not later than 180 days after com19 pleting the review required under subsection (a), the Ad20 ministrator shall submit a report to the appropriate com21 mittees of Congress detailing the results of the review and
  22 what revisions or other changes were made as a result of
  23 such review.

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# 1 SEC. 8. HUMAN FACTORS RESEARCH.

2	(a) AUTOMATION HUMAN FACTORS.—Not later than
3	180 days after the date of enactment of this Act, the Ad-
4	ministrator, in consultation with aircraft manufacturers,
5	operators, and pilots, and in coordination with the Admin-
6	istrator of the National Aeronautics and Space Adminis-
7	tration, shall develop a research plan to address the inte-
8	gration of human factors in the design and certification
9	of aircraft that are intended for use in air transportation.
10	(b) Requirements.—In developing the plan re-
11	quired under this section, the Administrator shall—
12	(1) establish goals for research and continuing
13	education in areas of study relevant to advancing
14	technology, improving design engineering and certifi-
15	cation practices, and facilitating better under-
16	standing of human factors concepts in the context of
17	the growing development and reliance on automation
18	in aircraft operations, including, but not limited to,
19	the development of tools to validate pilot recognition
20	and response assumptions and diagnostic tools to
21	improve the clarity of failure indications presented
22	to pilots;
23	(2) take into consideration and leverage any ex-
24	isting or planned research that is conducted by, or
25	conducted in partnership with, the FAA;

(3) focus on—

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1	(A) preventing a recurrence of the types of
2	recent accidents that have involved large trans-
3	port category airplanes designed and manufac-
4	tured in the United States; and
5	(B) increasingly complex aircraft systems
6	and designs.
7	(e) Implementation.—In implementing the plan re-
8	quired under this section, the Administrator shall, to the
9	maximum extent practicable, work with the Center of Ex-
10	cellence for Technical Training and Human Performance
11	and the Center of Excellence focused on flight automation
12	and human factors in aircraft that are intended for use
13	in air transportation established under section 9.
14	(d) Authorization of Appropriations.—There
15	are authorized to be appropriated to the Administrator
16	such sums as may be necessary to carry out this section.
17	SEC. 9. FAA CENTER OF EXCELLENCE FOR FLIGHT AUTO-
18	MATION AND HUMAN FACTORS IN AIRCRAFT.
19	(a) Center.—
20	(1) In general.—The Administrator shall de-
21	velop a Center of Excellence focused on flight auto-
22	mation and human factors in aircraft that are in-
23	tended for use in air transportation.
24	(2) Duties.—The Center for Excellence
25	shall—

1	(A) promote and facilitate collaboration
2	among academia, the FAA, and the aircraft
3	and airline industries, including aircraft, en-
4	gine, and equipment manufacturers, air car-
5	riers, and representatives of the airline pilot
6	community;
7	(B) establish goals for research and con-
8	tinuing education in areas of study relevant to
9	advancing technology, improving engineering
10	practices, and facilitating better understanding
11	of human factors concepts in the context of the
12	growing development and reliance on automa-
13	tion in commercial aircraft; and
14	(C) examine issues related to human sys-
15	tem integration and flight crew and aircraft
16	interfaces.
17	(3) Avoiding duplication of work.—In es-
18	tablishing the Center of Excellence, the Adminis-
19	trator shall ensure the work of the Center of Excel-
20	lence does not duplicate or overlap with the work of
21	any other established center of excellence.
22	(b) Authorization of Appropriations.—There
23	are authorized to be appropriated to the Administrator
24	such sums as may be necessary to carry out this section.

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1	SEC. 10. CERTIFICATION PILOT OPERATIONAL EVALUA-
2	TIONS.
3	(a) Certification Operational Evaluations.—
4	Not later than 1 year after the date of enactment of this
5	Act, the Administrator shall revise existing policies for
6	manufacturers of large transport category airplanes that
7	are expected to be operated for scheduled passenger air
8	transportation to ensure that pilot operational evaluations
9	for airplanes that are in the process of being certified use
10	pilots from foreign and domestic air carriers that are ex-
11	pected to operate such airplanes.
12	(b) Requirement.—The air carrier pilots used for
13	such evaluations shall include a representative sample of
14	such carriers' pilots with respect to levels of experience.
15	SEC. 11. FAA CONTINUING EDUCATION AND TRAINING.
16	(a) In General.—Chapter 445 of title 49, United
17	States Code, is amended by adding at the end the fol-
18	lowing:
19	"§ 44519. Certification personnel continuing edu-
20	cation and training
21	"(a) Office.—Not later than 120 days after the
22	date of enactment of this section, the Administrator of the
23	FAA shall establish an Office of Continuing Education.
24	"(b) Program.—The Office of Continuing Education
25	shall administer a continuing education and training pro-
26	gram.

1	"(c) Purpose of Program.—The purpose of the
2	continuing education and training program shall be to pro-
3	vide continuing education and training to FAA personnel
4	who hold positions involving aircraft and flight standards
5	certification, including engineers and inspectors.
6	"(d) Functions.—In administering the continuing
7	education and training program, the Office of Continuing
8	Education shall—
9	"(1) in consultation with outside experts, de-
10	velop—
11	"(A) an education and training curriculum
12	on current and new aircraft technologies,
13	project management, and the roles and respon-
14	sibilities associated with oversight of designees;
15	and
16	"(B) best practices for compliance with
17	FAA regulations; and
18	"(2) hire and manage a staff of qualified indi-
19	viduals to educate and train FAA personnel de-
20	scribed in subsection (c) using the education and
21	training curriculum and best practices developed
22	under paragraph (1).
23	"(e) Authorization of Appropriations.—There
24	are authorized to be appropriated to the Administrator,
25	\$10,000,000 for each of fiscal years 2021 through 2025

- 1 to carry out this section. Amounts appropriated under the
- 2 preceding sentence for any fiscal year shall remain avail-
- 3 able until expended.
- 4 "(f) Definition of FAA.—In this section, the term
- 5 'FAA' means the Federal Aviation Administration.".
- 6 (b) Table of Contents.—The analysis for chapter
- 7 445 of title 49, United States Code, is amended by insert-
- 8 ing after the item relating to section 44518 the following: "44519. Certification personnel continuing education and training.".

# 9 SEC. 12. AUTHORIZATION OF APPROPRIATIONS FOR SCI-

- 10 ENTIFIC AND TECHNICAL ADVISORS.
- There are authorized to be appropriated to the Ad-
- 12 ministrator, \$10,000,000 for each of fiscal years 2021
- 13 through 2030 for salaries of specialized technical per-
- 14 sonnel with expertise in new and emerging technologies
- 15 for such personnel to advise the Administrator on the de-
- 16 velopment of technical standards for new technologies and
- 17 operations to be implemented in the FAA's regulatory and
- 18 certification programs. Amounts appropriated under the
- 19 preceding sentence for any fiscal year shall remain avail-
- 20 able until expended.

### 21 SEC. 13. PROHIBITION ON CERTAIN PERFORMANCE-BASED

- 22 **INCENTIVES.**
- Section 106(l) of title 49, United States Code, is
- 24 amended by adding at the end the following:

1	"(7) Prohibition on Certain Performance-
2	BASED INCENTIVES.—No employee of the Adminis-
3	tration shall be given an award, financial incentive,
4	other compensation, or recognition as a result of ac-
5	tions to meet performance goals related to meeting
6	schedules or quotas for certificates issued under sec-
7	tion 44704.".
8	SEC. 14. SAFETY REPORTING PROGRAM.
9	(a) In General.—Not later than 1 year after the
10	date of enactment of this Act, in order to improve safety
11	in the individual certification application review process
12	and potential trends relating to safety concerns, the Ad-
13	ministrator shall maintain a safety reporting program for
14	FAA employees to anonymously and voluntarily report in-
15	stances where they have identified safety concerns during
16	the certification process.
17	(b) Safety Reporting Program Require-
18	MENTS.—In maintaining the safety reporting program
19	under subsection (a), the Administrator shall ensure the
20	following:
21	(1) The FAA maintains a reporting culture that
22	encourages engineers and other appropriate FAA
23	employees to voluntarily report when they believe an
24	aspect of an aircraft design may be noncompliant,
25	nonconforming, or unsafe.

1	(2) The safety reporting program is non-puni-
2	tive and anonymous.
3	(3) The Administrator thoroughly reviews safe-
4	ty reports to determine whether there is a hazard,
5	defect, noncompliance, nonconformance, or process
6	error.
7	(4) The Administrator thoroughly reviews safe-
8	ty reports to determine whether potential weaknesses
9	in the aircraft certification processes led to safety
10	concerns being raised regarding aircraft, engine,
11	propeller, and appliance designs, including systems,
12	components, parts, and materials.
13	(5) If the Administrator determines that a haz-
14	ard, defect, noncompliance, nonconformance, or
15	process error exists, the root cause is identified and
16	appropriate action is taken to remedy the defect,
17	noncompliance, nonconformance, or process error.
18	(c) Outcomes.—Results of safety report reviews
19	under this section may be used to—
20	(1) improve—
21	(A) safety systems, hazard control, and
22	risk reduction;
23	(B) certification systems;
24	(C) FAA oversight; and
25	(D) compliance and conformance; and

1	(2) implement lessons learned.
2	(d) Report Filing.—The Administrator shall estab-
3	lish requirements for when in the certification process re-
4	ports may be filed, which may include certification mile-
5	stones, timelines, or other decision-making points, with the
6	goals of ensuring that identified issues can be timely ad-
7	dressed and fostering open dialogue between applicants
8	and FAA employees throughout the certification process.
9	(e) Integration With Other Safety Reporting
10	Programs.—The Administrator shall harmonize the safe-
11	ty reporting program maintained under subsection (a)
12	with other internal safety reporting programs the FAA
13	maintains.
14	(f) Report to Congress.—Not later than 2 years
15	after the date of enactment of this Act, and annually
16	thereafter, the Administrator shall submit to the appro-
17	priate committees of Congress a report on the effective-
18	ness of the safety reporting program maintained under
19	subsection (a).
20	SEC. 15. PROTECTION OF WHISTLEBLOWERS.
21	Section 42121(a) of title 49, United States Code, is
22	amended—
23	(1) by redesignating paragraphs (1) through
24	(4) as subparagraphs (A) through (D), respectively.

1	and moving the margins of such subparagraphs 2
2	ems to the right;
3	(2) in the subsection heading, by striking "AIR-
4	LINE";
5	(3) by striking "No air carrier" and inserting
6	the following:
7	"(1) Air carriers.—No air carrier"; and
8	(4) by adding at the end the following:
9	"(2) Aircraft manufacturers.—No aircraft,
10	engine, or propeller manufacturer that holds a cer-
11	tificate issued pursuant to section 44704 of title 49,
12	United States Code, or contractor of, subcontractor
13	of, or supplier to, such a manufacturer may dis-
14	charge an employee or otherwise discriminate
15	against an employee with respect to compensation,
16	terms, conditions, or privileges of employment be-
17	cause the employee (or any person acting pursuant
18	to a request of the employee)—
19	"(A) provided, caused to be provided, or is
20	about to provide (with any knowledge of the
21	employer) or cause to be provided to the em-
22	ployer or Federal Government information re-
23	lating to any violation or alleged violation of
24	any order, regulation, or standard of the Fed-
25	eral Aviation Administration or any other provi-

1	sion of Federal law relating to aircraft, engine,
2	or propeller manufacturer safety (including
3	parts or components provided by contractors,
4	subcontractors, or suppliers) under this subtitle
5	or any other law of the United States;
6	"(B) has filed, caused to be filed, or is
7	about to file (with any knowledge of the em-
8	ployer) or cause to be filed a proceeding relat-
9	ing to any violation or alleged violation of any
10	order, regulation, or standard of the Federal
11	Aviation Administration or any other provision
12	of Federal law, relating to aircraft, engine, or
13	propeller manufacturer safety (including parts
14	or components provided by contractors, sub-
15	contractors, or suppliers) under this subtitle or
16	any other law of the United States;
17	"(C) testified or is about to testify in such
18	a proceeding; or
19	"(D) assisted or participated or is about to
20	assist or participate in such a proceeding.".
21	SEC. 16. REPEAL OF DESIGN AND PRODUCTION ORGANIZA-
22	TION CERTIFICATE AUTHORITY.
23	(a) In General.—Section 44704 of title 49, United
24	States Code, is amended—

1	(1) in the section heading, by striking "air-
2	worthiness certificates, and design and
3	production organization certificates" and
4	inserting "and airworthiness certificates";
5	and
6	(2) by striking subsection (e).
7	(b) Conforming Amendment.—Section 44702(a)
8	of title 49, United States Code, is amended, in the matter
9	preceding paragraph (1), by striking "design organization
10	certificates,".
11	SEC. 17. ENSURING APPROPRIATE RESPONSIBILITY OF AIR-
12	CRAFT CERTIFICATION AND FLIGHT STAND-
13	ARDS PERFORMANCE OBJECTIVES AND
13 14	ARDS PERFORMANCE OBJECTIVES AND METRICS.
14	METRICS.
14 15 16	METRICS.  (a) Repeals.—Sections 211 and 221 of the FAA Re-
14 15 16	METRICS.  (a) Repeals.—Sections 211 and 221 of the FAA Reauthorization Act of 2018 (49 U.S.C. 44701 note) are repealed.
14 15 16 17	METRICS.  (a) Repeals.—Sections 211 and 221 of the FAA Reauthorization Act of 2018 (49 U.S.C. 44701 note) are repealed.
14 15 16 17	METRICS.  (a) Repeals.—Sections 211 and 221 of the FAA Reauthorization Act of 2018 (49 U.S.C. 44701 note) are repealed.  (b) Conforming Repeals.—Paragraphs (8) and (9)
114 115 116 117 118	METRICS.  (a) Repeals.—Sections 211 and 221 of the FAA Reauthorization Act of 2018 (49 U.S.C. 44701 note) are repealed.  (b) Conforming Repeals.—Paragraphs (8) and (9) of section 202(c) of the FAA Reauthorization Act of 2018
14 15 16 17 18 19 20	METRICS.  (a) Repeals.—Sections 211 and 221 of the FAA Reauthorization Act of 2018 (49 U.S.C. 44701 note) are repealed.  (b) Conforming Repeals.—Paragraphs (8) and (9) of section 202(c) of the FAA Reauthorization Act of 2018 (49 U.S.C. 44701 note) are repealed.
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14 15 16 17 18 19 20 21	METRICS.  (a) Repeals.—Sections 211 and 221 of the FAA Reauthorization Act of 2018 (49 U.S.C. 44701 note) are repealed.  (b) Conforming Repeals.—Paragraphs (8) and (9) of section 202(c) of the FAA Reauthorization Act of 2018 (49 U.S.C. 44701 note) are repealed.  SEC. 18. REVIEW OF FAA CERTIFICATION EXPERTISE.  (a) In General.—Not later than 60 days after the

1 (1) the inspectors, engineers, managers, and ex-2 ecutives in the FAA who are responsible for the cer-3 tification of the design, manufacture, and operation 4 of aircraft intended for air transportation for pur-5 poses of determining whether the FAA has the ex-6 pertise and capability to adequately understand the 7 safety implications of, and oversee the adoption of, 8 new or innovative technologies, materials, and proce-9 dures that designers and manufacturers of such air-10 craft may adopt or introduce; 11 (2) the Chief Scientific and Technical Advisors 12 program to determine whether the program should 13 be enhanced or expanded to bolster and support the 14 FAA's aircraft certification and safety programs, 15 particularly with respect to understanding the safety 16 implications of new or innovative technologies, mate-17 rials, aircraft, and procedures, that designers and 18 manufacturers of such aircraft may adopt or intro-19 duce; and 20 (3) the FAA's compensation policies for aircraft 21 certification engineers relative to those of industry to 22 determine whether compensation is adequate to at-23 tract personnel with adequate experience.

24 (b) DEADLINE FOR COMPLETION.—Not later than 25 270 days after the date of enactment of this Act, the Ad-

- 1 ministrator shall complete the review required by sub-
- 2 section (a).
- 3 (c) Briefing.—Not later than 30 days after the
- 4 completion of the review required by subsection (a), the
- 5 Administrator shall brief the appropriate committees of
- 6 Congress on the results of the review and any other related
- 7 review. The briefing shall include the following:
- 8 (1) An analysis of the FAA's ability to hire
- 9 safety inspectors, engineers, managers, executives,
- scientists, and technical advisors, who have the req-
- 11 uisite expertise to oversee new developments in aero-
- space design and manufacturing.
- 13 (2) A plan for the FAA to improve the overall
- expertise of the FAA's personnel who are responsible
- for the oversight of the design and manufacture of
- aircraft.
- 17 (3) Recommendations for such legislation, if
- any, as the Administrator determines necessary to
- carry out the plan required under paragraph (2).