EMBARGOED UNTIL THURSDAY, AUGUST 8TH @ 12:00 P.M. PDT



On July 7, 2017 a near-miss incident at San Francisco International Airport (SFO) saw Air Canada Flight 759 come within 59 feet of crashing into four planes loaded with passengers. While our aviation system is the safest in the world, runway incursions like these in the United States have increased by nearly 83% over a recent 6-year period. The world also experienced two tragedies in five months with the crashes of the Lion Air Flight 610 in Indonesia and the Ethiopian Airlines Flight 302 in Ethiopia. To help keep our aviation system the safest in the world, we developed the *Safe Landings Act*.

THE PROBLEM: NEAR-MISSES BY THE NUMBERS

- More than 1,000 people were at risk during the Air Canada incident at SFO, and it would have been one of the most catastrophic aviation accidents in history
- 5 high-profile near miss incidents occurred between July 2017 and January 2018
- Runway safety represents 36% of accidents

The *Safe Landings Act (SLA)* reflects the notion that in incidents and accidents, there is never a single cause. We spent 2 years researching, reviewing numerous near-miss incidents, and holding more than 60 meetings to get the advice of multiple stakeholders in the aviation industry, including Captain "Sully" Sullenberger, pilots unions, air traffic controllers, mechanics, ground safety crews, federal agencies (NTSB and FAA), and more.

PROBLEM: During the Air Canada incident, pilots unknowingly lined up to land on a taxiway instead of its assigned runway.

SLA FIX: In direct response to the Air Canada incident, the NTSB recommended that both pilots and air traffic controllers implement systems that would **alert them if a plane was not properly aligned to land** on a runway. The Safe Landings Act requires FAA to implement these recommendations.

PROBLEM: In the case of the Air Canada incident, pilots did not enact the instrument landing system, which is a safety mechanism to use as a backup to a visual approach for pilots.

SLA FIX: The Safe Landings Act requires the FAA to **gather data and report** on which airlines require instrument landings under which circumstances and issue guidance on the most effective techniques.

PROBLEM: The "notices to airmen," commonly known as NOTAM, system currently consists of dense paper materials provided to pilots that contains pages of complicated, but important information. The NTSB found that information that could have helped avoid the Air Canada misalignment was buried deep in a NOTAM document, which the pilot may have missed.

<u>SLA FIX</u>: Modernizing the NOTAM system could improve safety and efficiency. The Safe Landings Act requires the NOTAM system to be harmonized with International Civil Aviation Organization (ICAO) standards, including writing, formatting, and disseminating information, to improve clarity, user-friendliness, and effectiveness in conveying priority, safety-related concerns.

PROBLEM: The cockpit voice recorder (CVR) in the Air Canada incident did not contain useful information because it only had 2 hours of recorded data on it and was only pulled for review many hours after that data was written over. One of pilots' top concerns with the use of CVRs and extending their duration, however, is the potential for the data to be misused by foreign governments.

SLA FIX: The Safe Landings Act **compels the GAO to do a study** on:

- Past incidents where CVR data was used by foreign governments for purposes other than determining the causes of an accident or incident;
- Compile the protections ICAO and other countries have for CVRs;
- Assess pilot concerns with extending CVRs past 2 hours; and
- Provide recommendations on how to mitigate risks and ensure CVR data helps inform safety investigations.

PROBLEM: The NTSB found that pilot fatigue was a factor in the near collision Air Canada incident. Although pilots already receive human factors training and there are regulations to prevent pilot fatigue, they are not foolproof.

SLA FIX: To improve pilot training and safety, the Safe Landings Act creates a Task Force on Human Factors in Aviation Safety to **review and provide recommendations** on issues including:

- Crew responses to abnormal events, like unexpected weather;
- Pilot performance during unexpected and stressful events, like the incident Captain Sullenberger successfully maneuvered in the Miracle on the Hudson event;
- Current flight crew rest and fatigue standards;
- Pilot training requirements as it relates to automated systems on aircraft, like were present in the case of the Boeing Max crashes; and
- Approach and landing misalignments, as was the case in the Air Canada incident. The task force would include representatives from the FAA, NTSB, pilot unions, air traffic controller unions, academics, and human factors experts.

EMBARGOED UNTIL THURSDAY, AUGUST 8TH @ 12:00 P.M. PDT

(Original Signature of Member)
116TH CONGRESS H. R.
To improve technology and address human factors in aviation safety, and for other purposes.
IN THE HOUSE OF REPRESENTATIVES
Mr. DeSaulnier introduced the following bill; which was referred to the Committee on
A BILL
To improve technology and address human factors in aviation
safety, 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.
This Act may be cited as the "Safe Landings Act".
5 SEC. 2. FINDINGS.
6 Congress finds the following:
7 (1) Given that the United States enjoys an ex-
8 ceptionally safe aviation system with an exceedingly
9 low frequency of airline accidents, efforts to improve

1 aviation safety should examine nonaccident safety 2 incidents for all possible insights. (2) Aviation safety should not be taken for 3 granted, and even with so few accidents, the U.S. Aerospace System should proactively address safety 5 6 concerns that emerge from our dynamic and evolving 7 economic conditions, technology, aviation industry, 8 and other factors. 9 (3) Preventing accidents from occurring in the 10 airport runway environment remains an objective re-11 quiring continued effort, and incidents of runway confusion, defined as the subset of runway incur-12 13 sions in which an aircraft unintentionally takes off 14 or lands on a taxiway or incorrect runway, should be 15 carefully monitored, reviewed, and studied for insights to improve safety. 16 17 (4) While technology continues to advance and 18 new opportunities to use technology to address safe-19 ty risks in aviation are examined and pursued, the 20 evolving role of technology and the expanding use of 21 automation should not be used as justification to di-22 minish attention to and prioritization of the human 23 contribution to aviation safety. The aviation industry 24 and the government must ensure that training pro-

grams for flight crews and other personnel are ap-

25

1	propriately evolving, that training standards and ex-
2	pectations remain rigorous, and that risks and con-
3	cerns associated with the interaction between hu-
4	mans, technology, and automated systems are identi-
5	fied, studied, and addressed in a timely manner.
6	SEC. 3. IMPLEMENTATION OF NTSB RECOMMENDATIONS.
7	(a) NAVIGATIONAL RADIOS.—The Administrator
8	shall implement the recommendation of the National
9	Transportation Safety Board numbered as A-18-23 and
10	issued on October 11, 2018, with respect to the tuning
11	of navigational radios to assist flight crews in managing
12	the flight path of aircraft on visual approaches. The Ad-
13	ministrator shall work with part 121 air carriers on imple-
14	mentation of this recommendation, and, not later than 1
15	year after the enactment of this Act, the Administrator
16	shall issue to Congress a report on air carrier compliance
17	rate.
18	(b) NTSB RECOMMENDATION.—
19	(1) In general.—The Administrator shall im-
20	plement the recommendation of the National Trans-
21	portation Safety Board numbered as A-18-25 and
22	issued on October 11, 2018, and, not later than 1
23	year after the enactment of this Act, the Adminis-
24	trator shall issue to Congress a report on the status
25	of the implementation.

1	(2) Consideration.—In implementing this
2	recommendation, the Administrator shall consider
3	any relevant findings identified pursuant to section
4	334 of the FAA Reauthorization Act of 2018 (Pub-
5	lie Law 115–254).
6	(c) PILOT ALERTS.—The Administrator shall—
7	(1) collaborate with aircraft and avionics manu-
8	facturers, labor organizations representing pilots op-
9	erating under part 121 of title 14, Code of Federal
10	Regulations, and software developers to develop the
11	technology for a cockpit system that provides an
12	alert to pilots when an airplane is not aligned with
13	the intended runway surface;
14	(2) once such technology described in para-
15	graph (1) is available, establish a requirement for
16	the technology to be installed on aircraft operating
17	under part 121 of title 14, Code of Federal Regula-
18	tions, landing at airports within Class B and Class
19	C airspace and certified under part 139 of title 14,
20	Code of Federal Regulations;
21	(3) in establishing the requirement as described
22	in paragraph (2), consider any relevant findings
23	identified pursuant to section 334 of the FAA Reau-
24	thorization Act of 2018 (Public Law 115–254); and

1	(4) not later than 1 year after the date of en-
2	actment of this Act, issue to Congress a report on
3	the progress of the work described in paragraph (1).
4	(d) NTSB RECOMMENDATION.—
5	(1) In general.—The Administrator shall im-
6	plement the recommendation of the National Trans-
7	portation Safety Board numbered as A-18-27 and
8	issued on October 11, 2018, and, not later than 1
9	year after the enactment of this Act, the Adminis-
10	trator shall issue to Congress a report on the status
11	of the implementation.
12	(2) Consideration.—In implementing this
13	recommendation, the Administrator shall consider
14	any relevant findings identified pursuant to section
15	334 of the FAA Reauthorization Act of 2018 (Pub-
16	lic Law 115–254).
17	SEC. 4. INVESTIGATIONS FOR COVERED EVENTS.
18	(a) In General.—Once implementation of section
19	3(b) of this Act is complete, the National Transportation
20	Safety Board may initiate investigations of covered events
21	to determine risk factors specific to the airport at which
22	such an event occurred and other elements of the National
23	Airspace System that may contribute to the cause of the
24	event. The National Transportation Safety Board may
25	also elect to consider multiple events in a single report

as part of a special investigation or study to examine safety factors contributing to these events. 3 (b) Additional Investigative Information.— In addition to any investigation that the National Transportation Safety Board is conducting with respect to any spe-5 cific covered event, the NTSB shall utilize voluntarily provided safety information in its evaluation of associated risk 8 in the National Airspace System and protect such information from public release in accordance with section 10 1114(b)(3) of title 49, United States Code. 11 (c) CONTENT.—The review and analysis shall examine factors present at the time of any covered event at 12 such airport, including— 13 (1) challenges pilots perceive when flying into 14 15 and out of the airport; 16 (2) challenges that air traffic controllers face when working at the airport; 17 18 (3) characteristics of the communications 19 among and between groups of personnel whose work 20 relates to the movement of aircraft into and out of 21 the airport including pilots, air traffic controllers, 22 maintenance workers, dispatchers, and airline air-23 port operations personnel; and

1	(4) physical characteristics of the airport and
2	its facilities, such as the configuration of runways,
3	runway lighting, and construction activity.
4	SEC. 5. TASK FORCE ON HUMAN FACTORS IN AVIATION
5	SAFETY.
6	(a) In General.—Not later than 6 months after the
7	date of enactment of this Act, the Administrator shall con-
8	vene an FAA Task Force on Human Factors in Aviation
9	Safety.
10	(b) Composition.—The Task Force shall consist of
11	members appointed by the Administrator and having ex-
12	pertise in an operational or academic discipline that is rel-
13	evant to the analysis of human errors in aviation. The
14	number of members shall be determined by the Adminis-
15	trator to ensure sufficient representation of relevant oper-
16	ational and academic disciplines.
17	(c) Duration.—
18	(1) In general.—Members of the Task Force
19	shall be appointed for the length of the existence of
20	the Task Force.
21	(2) Length of existence.—
22	(A) In general.—The Task Force shall
23	have an initial length of existence of 2 years.
24	(B) Option.—The Administrator may ex-
25	ercise an option to lengthen the duration of the

1	existence of the Task Force for a period of 2
2	years.
3	(d) Disciplines.—For purposes of subsection (b),
4	disciplines may include air carrier operations, line pilot ex-
5	pertise, air traffic control, technical operations, aero-
6	nautical information, aircraft maintenance and mechanics
7	psychology, linguistics, human-machine integration, gen-
8	eral aviation operations, and organizational behavior and
9	culture.
10	(e) Expertise.—
11	(1) IN GENERAL.—No less than half of the
12	members shall have expertise in aviation.
13	(2) Additional expertise.—The Task Force
14	shall include members with expertise on human fac-
15	tors but whose experience and training are not in
16	aviation specifically and who have not previously
17	been engaged in work related to the FAA or the
18	aviation industry. The Task Force shall also include
19	pilot labor organizations and at least one member
20	from an air traffic controller labor organization.
21	(f) FAA MEMBERS.—
22	(1) In general.— Not more than 4 members
23	may be employees of the FAA and NTSB, excluding
24	representatives of the labor representatives of em-
25	ployees of the air traffic control system. Not more

1	than 2 members may be employees of the NTSB.
2	The FAA and the NTSB members shall be non-vot-
3	ing.
4	(2) FAA EMPLOYEES.—Any member who is an
5	FAA employee shall have expertise in safety.
6	(g) Duties.—In coordination with the Research, En-
7	gineering, and Development Advisory Committee estab-
8	lished under section 44508 of title 49, United States Code,
9	the Task Force shall—
10	(1) not later than the date on which the Task
11	Force is no longer in existence, produce a written re-
12	port that—
13	(A) to the greatest extent possible, identi-
14	fies the most significant human factors and
15	their relative contribution to aviation safety
16	risk;
17	(B) identifies new research priorities for
18	research in human factors in aviation safety;
19	(C) reviews existing products by other
20	working groups related to human factors in
21	aviation safety including the Commercial Avia-
22	tion Safety Team (CAST)'s work pertaining to
23	flight crew responses to abnormal events;
24	(D) provides recommendations on potential
25	revisions to any FAA regulations and guidance

1	pertaining to the certification of aircraft under
2	part 25 of title 14, Code of Federal Regula-
3	tions, including sections related to presumed
4	pilot response times and assumptions about the
5	reliability of pilot performance during unex-
6	pected, stressful events;
7	(E) reviews rules, regulations, or standards
8	regarding flight crew rest and fatigue that are
9	used by a sample of international air carriers,
10	including those deemed to be more stringent
11	and less stringent than the current standards
12	pertaining to United States air carriers, and
13	identify risks to the National Airspace System
14	from any such variation in standards across
15	countries;
16	(F) reviews pilot training requirements and
17	recommend any revisions necessary to ensure
18	adequate understanding of automated systems
19	on aircraft; and
20	(G) reviews approach and landing mis-
21	alignment and make any recommendations for
22	improving these events;
23	(2) produce a written report to Congress not
24	less than once every 2 years that—

1	(A) summarizes new research developments
2	on human factors in aviation safety;
3	(B) to the greatest extent possible, identi-
4	fies the most significant human factors and
5	their relative contribution to aviation safety
6	risk; and
7	(C) provides any recommendations for pol-
8	icy or regulatory action; and
9	(3) if the Secretary exercises the option de-
10	scribed in subsection (c)(2)(B), not later than the
11	date that is 2 years after the date of establishment
12	of the Task Force, produce an interim report con-
13	taining the information described in paragraph (1).
14	(h) APPLICABLE LAW.—The Federal Advisory Com-
15	mittee Act (5 U.S.C. App.) shall not apply to the Task
16	Force.
17	SEC. 6. RESEARCH AND DEVELOPMENT PROGRAM ON NEW
18	APPROACHES TO DATA ANALYSIS FOR AVIA-
19	TION SAFETY.
20	(a) In General.—The Secretary shall establish a
21	new research and development program to be undertaken
22	by the FAA's Consortium in Aviation Operations Research
23	(NEXTOR II) to investigate and develop new approaches
24	to data analysis for understanding the factors in aviation

1	safety incidents and identifying emerging risks of future
2	safety incidents.
3	(b) APPROACHES.—The approaches described in sub-
4	section (a) include the use of new algorithms for analyzing
5	the text and audio of communications between flight crews
6	and air traffic controllers and the use of machine learning
7	or artificial intelligence methods for analyzing a variety
8	of data sets, including, data on weather, performance of
9	communication, navigation and surveillance equipment
10	and facilities, flight delays, safety incidents, flight crew
11	work schedules, and air traffic and crew member commu-
12	nications for detecting anomalies in the National Airspace
13	System.
14	(c) Collaboration.—In carrying out the research
15	program established in this section, member institutions
16	of the Consortium shall collaborate in the sharing of data
17	for the purpose of testing and demonstrating the potential
18	effectiveness of new approaches to analysis—
19	(1) with each other;
20	(2) with aviation industry partners;
21	(3) with units within the FAA including groups
22	within the Air Traffic Organization, NextGen Office
23	Office of Airports, and Aviation Safety; and
24	(4) with the National Aeronautics and Space
25	Administration's Aviation Safety Reporting System

1 (d) Research.—

- (1) IN GENERAL.—The research undertaken pursuant to this section shall prioritize understanding the ways that various forms of human factors contribute to aviation safety risk.
- (2) Factors.—The factors described in paragraph (1) may include fatigue and distraction during critical phases of work among pilots or other aviation personnel, tasks and workload, organizational structure and culture, communication among personnel, adherence to safety procedures, and any other relevant factors that are the cause or potential cause of human error in aviation operations.
- (3) Highly automated aircraft to improve the design of highly-automated aircraft to reduce instances of mode confusion and to combat problems of reduced awareness of basic flight parameters resulting from complacency about automated systems.
- (e) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated \$20,000,000 for carrying out the program described in this section for each fiscal year from 2019 through 2024, including grants to participating research institutions, including the academic institutions that make up the FAA's Consortium in Aviation

- 1 Operations Research, the National Aeronautics and Space
- 2 Administration, the FAA's Office of Safety, the NextGen
- 3 office, and units within the FAA's Air Traffic Organiza-
- 4 tion that work on safety issues.
- 5 (f) SUNSET.—The program shall terminate on the
- 6 date that is 6 years after the date on which the program
- 7 is established.
- 8 SEC. 7. USING INSTRUMENT APPROACH PROCEDURES AS
- 9 BACKUPS TO VISUAL APPROACHES.
- 10 (a) REPORT.—Not later than 120 days after the date
- 11 of enactment of this Act, the Administrator shall issue a
- 12 report to the Committee on Transportation and Infra-
- 13 structure of the House of Representatives and the Com-
- 14 mittee on Commerce, Science, and Transportation of the
- 15 Senate that uses a representative sample of part 121 and
- 16 part 129 air carriers to review the current range of air
- 17 carrier practices in requiring the use of instrument ap-
- 18 proach procedures as a backup system for visual ap-
- 19 proaches and the extent to which operators require pilots
- 20 to use approach procedures.
- 21 (b) Issuance of Guidance.—Not later than 1 year
- 22 after the date of enactment of this Act, the Administrator
- 23 shall review and analyze the collected data from the report
- 24 described in subsection (a) and issue guidance to air car-
- 25 riers on the most effective techniques and procedures to

use instrument approach procedures as a backup system for visual approaches. Such guidance shall encourage the 3 use of instruments to provide vertical and lateral guidance 4 to mitigate the potential for a wrong surface alignment and to provide flight crews with more precise vertical and 5 lateral deviation information. 6 7 SEC. 8. NOTAM MODERNIZATION INITIATIVE. 8 (a) IN GENERAL.—The Administrator shall lead an effort to reform and update the "notices to airmen" (NOTAM) system to harmonize with International Civil 10 Aviation Organization (ICAO) Annexes and Standards and Recommended Practices (SARPS), including the ex-12 isting methods of writing, formatting, and disseminating information under this system, for the purposes of improv-14 15 ing these notices' clarity, user-friendliness, and effectiveness in conveying priority, safety-related concerns. 16 (b) REQUIREMENTS.—In carrying out this initiative, 17 18 the Administrator shall— 19 (1) collaborate with airlines and labor organiza-20 tions representing pilots operating under part 121 of 21 title 14, Code of Federal Regulations, organizations 22 representing general aviation, air traffic controllers, 23 airport operations personnel, and the military on de-24 veloping recommendations for improving the user-25 friendliness of the content, style, and formatting of

NOTAMs, including any changes to existing conven-
tions for such items as abbreviations, punctuation,
font, and font size;
(2) collaborate with avionics manufacturers and
software developers in considering hardware and
software options for sending, accessing, and dis-
playing NOTAMs; and
(3) take appropriate actions within the Inter-
national Civil Aviation Organization (ICAO) to
adopt recommended standards on the writing, for-
matting, and disseminating of NOTAMs.
(c) Report to Congress.—The Administrator shall
issue a report to Congress not later than 1 year after the
date of enactment of this Act, and no less than every 6
months thereafter, until new standards for the writing,
formatting, and dissemination of NOTAMs have been
adopted by the FAA. This report shall include an update
on the progress of the work described in this section, in-
cluding an explanation of how any new recommendations
that have been developed will improve safety and an expla-
nation of any obstacles remaining to achieving consensus
for new international standards for the NOTAM system.

1	SEC. 9. GAO STUDY ON RISKS ASSOCIATED WITH THE USE
2	OF CVR DATA IN FOREIGN COUNTRIES.
3	(a) In General.—The Comptroller General shall
4	take the lead in carrying out a study on the risks associ-
5	ated with the use of CVR data in investigations led by
6	foreign governments or units of foreign governments.
7	(b) Contents.—At minimum, this study shall—
8	(1) review past incidents in which CVR data
9	was used by foreign governments or units of foreign
10	governments in such a way that the National Trans-
11	portation Safety Board found to depart from the
12	National Transportation Safety Board's standards
13	and procedures for a safety investigation, including
14	the use or circulation of CVR data for purposes
15	other than determining the causes of an accident or
16	safety incident, inappropriate release of data con-
17	tained on a CVR, or the dissemination of informa-
18	tion or conclusions based on a misinterpretation of
19	data contained on a CVR;
20	(2) document the protections provided for cock-
21	pit voice recordings and transcripts by ICAO and
22	other countries where United States-based air car-
23	riers operate;
24	(3) identify and assess the risks to United
25	States flight crews, air carriers, manufacturers, and
26	other stakeholders in the aviation industry associ-

1	ated with CVRs capable of recording more than 2
2	hours of data; and
3	(4) provide recommendations on measures to
4	adopt to mitigate against such risks and ensure that
5	any use of CVR data serves the sole purpose of a
6	safety investigation, including recommendations for
7	the United States make to ICAO to mitigate these
8	risks
9	SEC. 10. TRANSPARENCY IN AIRCRAFT MAINTENANCE AND
10	REPAIR WORK.
11	(a) In General.—Not later than 1 year after the
12	date of enactment of this Act, the Administrator shall up-
13	date the guidelines of the FAA for part 121 certificate
14	holders in implementing a Continuing Analysis and Sur-
15	veillance System (CASS) for their air carrier maintenance
16	programs to include reporting no less than once every 6
17	
18	to follow procedures in aircraft maintenance as well as any
19	major alteration, complete overhaul, or repair of mechan-
20	ical irregularities of each airframe, engine, propeller, and
21	appliance.
22	(b) ADVISORY.—Not later than 1 year after the date
23	of enactment of this Act, the Administrator shall issue an
24	advisory with formatting guidelines for air carriers to re-
25	port information as required under subsection (a).

1 (c) Inclusion.—For each instance of a failure to follow procedures and for each major alternation, overhaul, or repair reported under the requirements of this section, 3 4 the Administrator shall require certificate holders to include any name and any physical address where the work is carried out for each maintenance provider that performs 7 work. 8 (d) Notifications to the NTSB.—The Administrator shall notify the National Transportation Safety 10 Board of each instance identified in carrying out subsection (c) of this section and shall share with the National Transportation Safety Board all information it 12 gathers in relation to each such instance. 13 (e) Unscheduled Landings Due to Mechanical 14 15 Issues.-16 (1) IN GENERAL.—Each Certificate Manage-17 ment Office within the FAA shall immediately notify 18 the National Transportation Safety Board in any in-19 stance in which a part 121 air carrier falling under 20 its supervision completes an unscheduled landing at 21 any airport in the United States, including any in-22 stance in which an airplane returns to its airport of 23 origin after takeoff before or without completing its 24 scheduled flight, in which a mechanical issue was a 25 factor.

1	(2) Content.—The notification described in
2	paragraph (1) shall include any information avail-
3	able about the cause of the unscheduled landing.
4	(f) NTSB Analysis and Report.—The National
5	Transportation Safety Board, in collaboration with the
6	FAA, shall analyze information in the notifications it re-
7	ceives in subsections (d) and (e) of this section, for the
8	purpose of identifying any trends or emerging concerns
9	with any individual air carriers. Not less than once per
10	year, the National Transportation Safety Board shall sub-
11	mit to the Committee on Transportation and Infrastruc-
12	ture of the House of Representatives and the Committee
13	on Commerce, Science, and Transportation of the Senate
14	a report on its analysis, the findings of its analysis, and
15	any safety recommendations resulting from the analysis.
16	(g) Definitions.—In this section, the terms "major
17	alterations", "airframe", "propeller", and "appliance"
18	have the meanings given such terms in part 1 of title 14,
19	Code of Federal Regulations.
20	SEC. 11. REVIEW OF FAA'S AVIATION SAFETY INSPECTION
ว 1	
41	PROGRAM.
2122	PROGRAM. (a) Audit by the Department of Transpor-
22	
	(a) Audit by the Department of Transpor-

1	review of the FAA's August 2017 Flight Standards reor-
2	ganization and its aviation safety inspection program.
3	(b) REVIEW.—The review shall include an evaluation
4	of—
5	(1) the FAA Flight Standards reorganization
6	from a geographic-based system to a functional-
7	based system;
8	(2) the implementation of the FAA's Compli-
9	ance Philosophy as it relates to safety inspections
10	and enforcements;
11	(3) the FAA's new oversight system known as
12	the Safety Assurance System (SAS);
13	(4) training for aviation safety inspector and
14	operational research analysts on the Compliance
15	Philosophy and SAS; and
16	(5) the impact of the FAA's reorganization and
17	SAS on the FAA's ability to produce reliable esti-
18	mates of aviation safety inspector and operational
19	research analyst staffing needs.
20	(c) Report.—The Inspector General shall submit to
21	the Committee on Transportation and Infrastructure of
22	the House of Representatives and the Committee on Com-
23	merce, Science, and Transportation of the Senate a report
24	on the results of its review and any recommendations to

1	improve the aviation safety inspection program of the
2	FAA.
3	SEC. 12. DEFINITIONS.
4	In this Act:
5	(1) Administrator.—The term "Adminis-
6	trator" means the Administrator of the Federal
7	Aviation Administration.
8	(2) COVERED EVENT.—The term "covered
9	event'' means—
10	(A) a category A or B runway incursion,
11	as defined in Order 7050.1B of the Federal
12	Aviation Administration (dated November 3,
13	2013);
14	(B) a landing on a taxiway, incorrect run-
15	way, or other area not designed as a runway at
16	a public-use airport on land;
17	(C) descent by an aircraft below 300 feet
18	above ground level on approach to a taxiway,
19	incorrect runway, or other area not designed as
20	a runway at a public-use airport on land; or
21	(D) a landing by an aircraft notwith-
22	standing an instruction by air traffic control
23	that the aircraft perform a missed approach or
24	go-around.

1	(3) FAA.—The term "FAA" means the Fed-
2	eral Aviation Administration.
3	(4) Part 121 Air Carrier.—The term "part
4	121 air carrier" means an air carrier that holds a
5	certificate issued under part 121 of title 14, Code of
6	Federal Regulations.
7	(5) Part 129 Air Carrier.—The term "part
8	129 air carrier" means an air carrier that holds a
9	certificate issued under part 129 of title 14, Code of
10	Federal Regulations.