	(Original Signature of Member)
$\begin{array}{c} \underline{}^{\text{TH}} \\ \overline{\text{CONGRESS}} \\ \underline{} \\ \underline{} \\ \text{SESSION} \end{array}$	H. R
	in title 51, United States Code, as necessary to keep t, and to make technical amendments to improve the ode.
IN THE	HOUSE OF REPRESENTATIVES
M	_ introduced the following bill; which was referred to the Committee on the Judiciary
	A BILL
essary to ke	ons in title 51, United States Code, as necesep the title current, and to make technical to improve the United States Code.
1 Be it en	nacted by the Senate and House of Representa-
2 tives of the U	Inited States of America in Congress assembled,
3 SECTION 1. T	ABLE OF CONTENTS.

The table of contents for this Act is as follows:

Sec. 2. Purposes; restatement does not change meaning or effect of existing

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4

Sec. 1. Table of contents.

law.

Sec. 4. Technical amendments.

Sec. 3. Revision of title 51, United States Code.

Sec. 5. Transitional and savings provisions.

Sec. 6. Repeals. 1 SEC. 2. PURPOSES; RESTATEMENT DOES NOT CHANGE 2 MEANING OR EFFECT OF EXISTING LAW. 3 (a) Purposes.—The purposes of this Act are— 4 (1) to make revisions in title 51, United States 5 Code, as necessary to keep the title current; and 6 (2) to make technical amendments to improve 7 the United States Code. 8 (b) RESTATEMENT DOES NOT CHANGE MEANING OR EFFECT OF EXISTING LAW.— 10 (1) In general.—The restatement of existing 11 law enacted by this Act does not change the mean-12 ing or effect of the existing law. The restatement in-13 corporates in title 51, United States Code, various 14 provisions that were enacted separately over a period 15 of years, reorganizing them, conforming style and 16 terminology, modernizing obsolete language, and cor-17 recting drafting errors. These changes serve to re-18 move ambiguities, contradictions, and other imper-19 fections, but they do not change the meaning or ef-20 fect of the existing law or impair the precedential 21 value of earlier judicial decisions or other interpreta-22 tions. 23 (2) Rule of Construction.—

1	(A) In General.—Notwithstanding the
2	plain meaning rule or other rules of statutory
3	construction, a change in wording made in the
4	restatement of existing law enacted by this Act
5	serves to clarify the existing law as indicated in
6	paragraph (1), but not to change the meaning
7	or effect of the existing law.
8	(B) REVISION NOTES.—Subparagraph (A)
9	applies whether or not a change in wording is
10	explained by a revision note appearing in a con-
11	gressional report accompanying this Act. If
12	such a revision note does appear, a court shall
13	consider the revision note in interpreting the
14	change.
15	SEC. 3. REVISION OF TITLE 51, UNITED STATES CODE.
16	(a) REVISION OF TITLE TABLE OF CONTENTS.—The
17	title table of contents of title 51, United States Code, is
18	amended—
19	(1) by striking the item relating to chapter 301
20	and inserting the following:
	"301. Funding
21	(2) by striking the item relating to chapter 315
22	and inserting the following:
	"315. Facilities and Infrastructure 31501 "317 Through 397 Reserved "399 Miscellaneous 39901":

1	(3) by striking the item relating to chapter 409
2	and inserting the following:
	"409. Aeronautics and Space Technology40901"411 Through 497Reserved"499. Miscellaneous49901";
3	(4) by striking the items relating to chapters
4	513 and 515 and inserting the following:
	"513. Space Resource Commercial Exploration and Utilization 51301 "515. Office of Spaceports 51501 "517. Development and Use of Commercial Cargo and Crew Transportation Capabilities 51701";
5	(5) by striking the item relating to chapter 701
6	and inserting the following:
	"701. Use of Space Launch System or Alternatives
7	(6) by inserting after the item relating to chap-
8	ter 713 the following:
	"715. Human Space Flight and Exploration71501"717. Advancing Human Space Exploration71701".
9	(b) Revision of Section 20144.—
10	(1) Amendments.—Section 20144 of title 51,
11	United States Code, is amended—
12	(A) in subsection (a), by striking "The Ad-
13	ministration may carry out a program to award
14	prizes only in conformity with this section.";
15	and
16	(B) in subsection (i)(4), by striking "Com-
17	mittee on Science and Technology" and insert-
18	ing "Committee on Science, Space, and Tech-
19	nology".

1	(2) Effective date.—The amendment made
2	by paragraph (1)(A) is effective on January 4, 2011.
3	(c) REVISION OF SECTION 20145.—Section 20145 of
4	title 51, United States Code, is amended—
5	(1) by redesignating subsections (f) through (h)
6	as subsections (g) through (i), respectively;
7	(2) by inserting after subsection (e) the fol-
8	lowing:
9	"(f) Proceeds.—Proceeds from leases entered into
10	under this section shall be deposited in the Administration
11	Construction and Environmental Compliance and Restora-
12	tion appropriations account. The proceeds shall be avail-
13	able for a period of 5 years, to the extent and in amounts
14	provided in appropriations acts."; and
15	(3) in subsection (h) (as redesignated by para-
16	graph (1)), in the matter before paragraph (1), by
17	striking "the date of the enactment of the National
18	Aeronautics and Space Administration Authorization
19	Act of 2022," and inserting "August 9, 2022,".
20	(d) Revision of Section 20303.—Section 20303 of
21	title 51, United States Code, is amended—
22	(1) in subsection (c), by striking "(42 U.S.C.
23	16611(d))" and inserting "(Public Law 109–155,
24	119 Stat. 2900)";

1	(2) by redesignating subsection (d) as sub-
2	section (e); and
3	(3) by inserting after subsection (c) the fol-
4	lowing:
5	"(d) EVALUATION AND EXPANSION OF INTER-
6	AGENCY CONTRIBUTION.—
7	"(1) In General.—The Administrator shall
8	evaluate and, to the extent possible—
9	"(A) expand efforts to maximize the Ad-
10	ministration's contribution to interagency ef-
11	forts to enhance science, technology, engineer-
12	ing, and mathematics education capabilities;
13	and
14	"(B) enhance the Nation's technological
15	excellence and global competitiveness.
16	"(2) Identification in Report.—The Admin-
17	istrator shall identify the expanded efforts and en-
18	hancements made under paragraph (1) in the annual
19	reports required by subsection (e).".
20	(e) REVISION OF CHAPTER 301.—
21	(1) Chapter heading.—The chapter heading
22	of chapter 301 of title 51, United States Code, is
23	amended by striking "APPROPRIATIONS,
24	BUDGETS, AND ACCOUNTING" and insert-
25	ing "FUNDING".

1	(2) Chapter table of contents.—
2	(A) Contents.—The chapter table of con-
3	tents of chapter 301 of title 51, United States
4	Code is amended to read as follows: "SUBCHAPTER I—GENERAL PROVISIONS "Sec. "30101. Prior authorization of appropriations required. "30102. Working capital fund. "30103. Baselines and cost controls. "30104. Reports on estimated costs for certain programs. "30105. Annual report on program cost and control. "SUBCHAPTER II—BUDGET PROVISIONS "30121. General budget documentation requirements. "30122. Consideration of decadal surveys. "30123. Two-year budget request with third-year estimate.".
5	(B) Typeface.—The chapter table of con-
6	tents of chapter 301 of title 51, United States
7	Code, as amended by subparagraph (A), is
8	amended so that the typeface of the subchapter
9	headings and the typeface of the subchapter
10	items conform to those appearing in other chap-
11	ter table of contents of title 51.
12	(3) Redesignation of existing sections.—
13	Chapter 301 of title 51, United States Code, is
14	amended as follows:
15	(A) Section 30103 (Budgets) is redesig-
16	nated as section 30121, and transferred to ap-
17	pear after section 30104 (Baselines and cost
18	controls).
19	(B) Section 30104 (Baselines and cost
20	controls) is redesignated as section 30103.

1	(4) Designation of Subchapters.—Chapter
2	301 of title 51, United States Code, is amended
3	by—
4	(A) inserting a subchapter heading (in
5	typeface styled like other subchapter headings
6	in title 51) before section 30101 as follows:
7	"SUBCHAPTER I—GENERAL PROVI-
8	SIONS''; and
9	(B) inserting a subchapter heading (in
10	typeface styled like other subchapter headings
11	in title 51) before section 30121 (as redesig-
12	nated and transferred by paragraph (3)(A)) as
13	follows: "SUBCHAPTER II—BUDGET PRO-
14	VISIONS".
15	(5) REVISION OF SECTION 30103.—Section
16	30103 (Baselines and cost controls) of title 51,
17	United States Code (as redesignated by paragraph
18	(3)(B)), is amended by striking "Committee on
19	Science and Technology' and inserting "Committee
20	on Science, Space, and Technology" in—
21	(A) subsection $(b)(2)$;
22	(B) subsection $(c)(1)$;
23	(C) subsection (d)(3);
24	(D) subsection $(e)(1)(A)$ (matter before
25	clause (i)); and

1	(E) subsection $(e)(2)$.
2	(6) Enactment of sections 30104 and
3	30105.—Chapter 301 of title 51, United States Code,
4	is amended by inserting after section 30103 (Base-
5	lines and cost controls) (as redesignated by para-
6	graph (3)(B) and amended by paragraph (5)) the
7	following:
8	"§ 30104. Reports on estimated costs for certain pro-
9	grams
10	"For each program under the jurisdiction of the Ad-
11	ministration for which development costs are expected to
12	exceed \$200,000,000, the Administrator shall submit to
13	Congress, at the time of submission of the President's an-
14	nual budget—
15	"(1) a 5-year budget detailing the estimated de-
16	velopment costs of the program; and
17	"(2) an estimate of the life-cycle costs associ-
18	ated with the program.
19	" $\S 30105$. Annual report on program cost and control
20	"(a) Annual Report.—Not later than April 30 of
21	each year, the Administrator shall submit to the Com-
22	mittee on Commerce, Science, and Transportation of the
23	Senate and the Committee on Science, Space, and Tech-
24	nology of the House of Representatives a report on the
25	implementation during the preceding year of the corrective

action plan referred to in section 1203(a)(4) of the National Aeronautics and Space Administration Authoriza-3 tion Act of 2010 (Public Law 111–267, 124 Stat. 2842). 4 "(b) Contents.—A report under this section shall 5 contain the following: 6 "(1) Description of over-budget or de-7 LAYED PROGRAMS.—For the year covered by the re-8 port, a description of each Administration program 9 that has exceeded its cost baseline by 15 percent or 10 more or is more than 2 years behind its projected 11 development schedule. 12 "(2) Corrective plans.—For each program 13 described under paragraph (1), a plan for a decrease 14 in scope or requirements, or other measures, to be 15 undertaken to control cost and schedule, including 16 any cost monitoring or corrective actions undertaken 17 pursuant to the National Aeronautics and Space Ad-18 ministration Authorization Act of 2005 (Public Law 19 109–155, 119 Stat. 2895), and the amendments 20 made by that Act.". 21 REVISION OF SECTION 30121.—Section 22 30121 of title 51, United States Code (as redesig-23 nated and transferred by paragraph (3)(A)), is 24 amended—

1	(A) in the section heading, by striking
2	"Budgets" and inserting "General budget
3	documentation requirements"; and
4	(B) in subsection (b) (matter before para-
5	graph (1)), by striking "Committee on Science
6	and Technology" and inserting "Committee on
7	Science, Space, and Technology".
8	(8) Enactment of sections 30122 and
9	30123.—Chapter 301 of title 51, United States Code,
10	is amended by adding at the end the following:
11	"§ 30122. Consideration of decadal surveys
12	"The Administration shall take into account the cur-
13	rent decadal surveys from the National Academies' Space
14	Studies Board when submitting the President's budget re-
15	quest to Congress.
16	" \S 30123. Two-year budget request with third-year es-
17	timate
18	"Each fiscal year, the President shall submit to Con-
19	gress a budget request for the Administration that in-
20	cludes—
21	"(1) a budget request for the immediate fiscal
22	year and the following fiscal year; and
23	"(2) budget estimates for the third fiscal
24	year.".

1	(f) Revision of Section 30310.—Section 30310 of
2	title 51, United States Code, is amended by striking "Sec-
3	tion 526(a) of the Energy Independence and Security Act
4	of 2007 (42 U.S.C. 17142(a))" and inserting "Section
5	526 of the Energy Independence and Security Act of 2007
6	(42 U.S.C. 17142)".
7	(g) Enactment of Section 30311.—
8	(1) Chapter table of contents.—The
9	chapter table of contents of chapter 303 of title 51,
10	United States Code, is amended by adding at the
11	end the following:
	"30311. Counterfeit parts.".
12	(2) Enactment of Section.—Chapter 303 of
13	title 51, United States Code, is amended by adding
14	at the end the following:
15	"§ 30311. Counterfeit parts
16	"(a) In General.—The Administrator shall plan,
17	develop, and implement a program, in coordination with
18	other Federal agencies, to detect, track, catalog, and re-
19	duce the number of counterfeit electronic parts in the Ad-
20	ministration supply chain.
21	"(b) Requirements.—In carrying out the program,
22	the Administrator shall establish—
23	"(1) counterfeit part identification training for
24	all employees who procure, process, distribute, and
25	install electronic parts that will—

1	"(A) teach employees how to identify coun-
2	terfeit parts;
3	"(B) educate employees on procedures to
4	follow if they suspect a part is counterfeit;
5	"(C) regularly update employees on new
6	threats, identification techniques, and reporting
7	requirements; and
8	"(D) integrate industry associations, man-
9	ufacturers, suppliers, and other Federal agen-
10	cies, as appropriate;
11	"(2) an internal database to track all suspected
12	and confirmed counterfeit electronic parts that will
13	maintain, at a minimum—
14	"(A) companies and individuals known and
15	suspected of selling counterfeit parts;
16	"(B) parts known and suspected of being
17	counterfeit, including lot and date codes, part
18	numbers, and part images;
19	"(C) countries of origin;
20	"(D) sources of reporting;
21	"(E) United States Customs seizures; and
22	"(F) Government-Industry Data Exchange
23	Program reports and other public- or private-
24	sector database notifications; and
25	"(3) a mechanism—

1	"(A) to report all information on suspected
2	and confirmed counterfeit electronic parts to
3	law enforcement agency databases, industry as-
4	sociation databases, and other databases; and
5	"(B) to issue bulletins to industry on coun-
6	terfeit electronic parts and related counterfeit
7	activity.
8	"(c) REVIEW OF PROCUREMENT AND ACQUISITION
9	Policy.—
10	"(1) In general.—In establishing the pro-
11	gram, the Administrator shall amend acquisition and
12	procurement policy in effect on October 11, 2010, to
13	require the purchase of electronic parts from trusted
14	or approved manufacturers. To determine trusted or
15	approved manufacturers, the Administrator shall es-
16	tablish a list, assessed and adjusted at least annu-
17	ally, and create criteria for manufacturers to meet
18	in order to be placed on the list.
19	"(2) Criteria.—The criteria may include—
20	"(A) authentication or encryption codes;
21	"(B) embedded security markings in parts;
22	"(C) unique, hard-to-copy labels and mark-
23	ings;
24	"(D) identification of distinct lot and serial
25	codes on external packaging;

1	"(E) radio frequency identification embed-
2	ded into high-value parts;
3	"(F) physical destruction of all defective
4	damaged, and sub-standard parts that are by-
5	products of the manufacturing process;
6	"(G) testing certifications;
7	"(H) maintenance of procedures for han-
8	dling any counterfeit parts that slip through;
9	"(I) maintenance of secure facilities to pre-
10	vent unauthorized access to proprietary infor-
11	mation; and
12	"(J) maintenance of product return, buy
13	back, and inventory control practices that limit
14	counterfeiting.".
15	(h) Enactment of Sections 30505 and 30506.—
16	(1) Chapter table of contents.—The
17	chapter table of contents of chapter 305 of title 51
18	United States Code, is amended by adding at the
19	end the following:
	"30505. Information security. "30506. Workforce development for minority and underrepresented groups.".
20	(2) Enactment of Sections.—Chapter 305
21	of title 51, United States Code, is amended by add-
22	ing at the end the following:

1 "§ 30505. Information security

2 "(a) Definition of Information Infrastruc-3 TURE.—In this section, the term 'information infrastructure' means the underlying framework that information 4 5 systems and assets rely on to process, transmit, receive, 6 or store information electronically, including programmable electronic devices and communications networks 7 and any associated hardware, software, or data. 8 9 "(b) Monitoring Risk.— 10 "(1) BIENNIAL UPDATE ON SYSTEM IMPLEMEN-11 TATION.—On a biennial basis, the Chief Information 12 Officer of the Administration, in coordination with 13 other national security agencies, shall provide to the 14 Committee on Commerce, Science, and Transpor-15 tation of the Senate and the Committee on Science, 16 Space, and Technology of the House of Representa-17 tives— "(A) an update on efforts to implement a 18 19 system to provide dynamic, comprehensive, real-20 time information regarding risk of unauthorized 21 remote, proximity, and insider use or access, for 22 all information infrastructure under the respon-23 sibility of the Chief Information Officer, and 24 mission-related networks, including contractor 25 networks;

1	"(B) an assessment of whether the system
2	has demonstrably and quantifiably reduced net-
3	work risk compared with alternative methods of
4	measuring security; and
5	"(C) an assessment of the progress that
6	each center and facility has made toward imple-
7	menting the system.
8	"(2) Existing assessments.—The assess-
9	ments required of the Inspector General under sec-
10	tion 3555 of title 44 shall evaluate the effectiveness
11	of the system described in this subsection.
12	"(c) Information Security Awareness and Edu-
13	CATION.—
14	"(1) In general.—In consultation with the
15	Department of Education, other national security
16	agencies, and other agency directorates, the Chief
17	Information Officer shall institute an information se-
18	curity awareness and education program for all op-
19	erators and users of Administration information in-
20	frastructure, with the goal of reducing unauthorized
21	remote, proximity, and insider use or access.
22	"(2) Program requirements.—
23	"(A) Briefings, exercises, and exami-
24	NATIONS.—The program shall include, at a
25	minimum, ongoing classified and unclassified

1	threat-based briefings, and automated exercises
2	and examinations that simulate common attack
3	techniques.
4	"(B) Participation.—All agency employ-
5	ees and contractors engaged in the operation or
6	use of agency information infrastructure shall
7	participate in the program.
8	"(C) Access.—Access to Administration
9	information infrastructure shall be granted only
10	to operators and users who regularly satisfy the
11	requirements of the program.
12	"(D) REWARDING ACHIEVEMENT.—The
13	Chief Human Capital Officer of the Administra-
14	tion, in consultation with the Chief Information
15	Officer, shall create a system to reward opera-
16	tors and users of agency information infrastruc-
17	ture for continuous high achievement in the
18	program.
19	"§ 30506. Workforce development for minority and
20	underrepresented groups
21	"(a) Addressing Impediments.—To the extent
22	practicable, the Administrator shall take all necessary
23	steps to address any impediments identified in the assess-
24	ment described in subsection (b).

1	"(b) Assessment.—The assessment referred to in
2	subsection (a) is the independent assessment of impedi-
3	ments to space science and engineering workforce develop-
4	ment for minority and underrepresented groups at the Ad-
5	ministration that was prepared under section 203(a) of
6	the America COMPETES Reauthorization Act of 2010
7	(Public Law 111–358, 124 Stat. 3994).".
8	(i) Revision of Section 30704.—Section 30704(2)
9	of title 51, United States Code, is amended by striking
10	"the Buy American Act (41 U.S.C. 10a et seq.)" and in-
11	serting "chapter 83 of title 41".
12	(j) Enactment of Section 30705.—
13	(1) CHAPTER TABLE OF CONTENTS.—The
14	chapter table of contents of chapter 307 of title 51,
15	United States Code, is amended by adding at the
16	end the following:
	"30705. Limitation on international agreements concerning outer space activities.".
17	(2) Enactment of Section.—Chapter 307 of
18	title 51, United States Code, is amended by adding
19	at the end the following:
20	"§ 30705. Limitation on international agreements con-
21	cerning outer space activities
22	"(a) Definitions.—In this section:

1	"(1) Congressional defense commit-
2	TEES.—The term 'congressional defense committees'
3	means—
4	"(A) the Committee on Armed Services
5	and the Committee on Appropriations of the
6	Senate; and
7	"(B) the Committee on Armed Services
8	and the Committee on Appropriations of the
9	House of Representatives.
10	"(2) Covered congressional commit-
11	TEES.—The term 'covered congressional committees'
12	means—
13	"(A) the Committee on Armed Services,
14	the Committee on Foreign Relations, and the
15	Select Committee on Intelligence of the Senate;
16	and
17	"(B) the Committee on Armed Services,
18	the Committee on Foreign Affairs, and the Per-
19	manent Select Committee on Intelligence of the
20	House of Representatives.
21	"(b) Certification.—If the United States becomes
22	a signatory to a non-legally binding international agree-
23	ment concerning an International Code of Conduct for
24	Outer Space Activities or any similar agreement, at the
25	same time as the United States becomes a signatory—

1	"(1) the President shall submit to the congres-
2	sional defense committees, the Permanent Select
3	Committee on Intelligence of the House of Rep-
4	resentatives, and the Select Committee on Intel-
5	ligence of the Senate a certification that the agree-
6	ment has no legally binding effect or basis for lim-
7	iting the activities of the United States in outer
8	space; and
9	"(2) the Secretary of Defense, the Chairman of
10	the Joint Chiefs of Staff, and the Director of Na-
11	tional Intelligence shall jointly submit to the con-
12	gressional defense committees a certification that
13	the agreement is equitable, enhances national secu-
14	rity, and has no militarily significant impact on the
15	ability of the United States to conduct military or
16	intelligence activities in space.
17	"(c) Briefings and Notifications Required.—
18	"(1) RESTATEMENT OF POLICY FORMULATION
19	UNDER THE ARMS CONTROL AND DISARMAMENT ACT
20	WITH RESPECT TO OUTER SPACE.—No action shall
21	be taken that would obligate the United States to re-
22	duce or limit the Armed Forces or armaments of the
23	United States in outer space in a militarily signifi-
24	cant manner, except pursuant to the treaty-making
25	power of the President under Article II, Section 2,

1	Clause II of the Constitution or unless authorized by
2	the enactment of further affirmative legislation by
3	Congress.
4	"(2) Briefings.—
5	"(A) REQUIREMENT.—The Secretary of
6	Defense, the Secretary of State, and the Direc-
7	tor of National Intelligence shall jointly provide
8	to the covered congressional committees reg-
9	ular, detailed updates on the negotiation of a
10	non-legally binding international agreement
11	concerning an International Code of Conduct
12	for Outer Space Activities or any similar agree-
13	ment.
14	"(B) TERMINATION OF REQUIREMENT.—
15	The requirement to provide regular briefings
16	under subparagraph (A) shall terminate on the
17	date on which the United States becomes a sig-
18	natory to an agreement referred to in subpara-
19	graph (A), or on the date on which the Presi-
20	dent certifies to Congress that the United
21	States is no longer negotiating an agreement
22	referred to in subparagraph (A), whichever is
23	earlier.
24	"(3) Notifications.—If the United States be-
25	comes a signatory to a non-legally binding inter-

1	national agreement concerning an International
2	Code of Conduct for Outer Space Activities or any
3	similar agreement, not less than 60 days prior to
4	any action that would obligate the United States to
5	reduce or limit the Armed Forces, armaments, or ac-
6	tivities of the United States in outer space, the head
7	of each department or agency of the Federal Gov-
8	ernment that would be affected by the action shall
9	submit to Congress a notice of the action and its ef-
10	fect on the department or agency.".
11	(k) Redesignation of Chapter 315 as Chapter
12	399.—
13	(1) Reserved Chapters.—Title 51, United
14	States Code, is amended by inserting after section
15	31302 the following:
16	"CHAPTERS 317 THROUGH 397—RE-
17	SERVED".
18	(2) Redesignation of Chapter.—Title 51,
19	United States Code, is amended by redesignating
20	chapter 315 as chapter 399.
21	(3) Redesignation of sections.—Chapter
22	399 of title 51, United States Code (as redesignated
23	by paragraph (2)), is amended—
24	(A) in the chapter table of contents, by re-
25	designating the items for sections 31501

1	through 31505 as items for sections 39901
2	through 39905, respectively; and
3	(B) by redesignating sections 31501
4	through 31505 as sections 39901 through
5	39905, respectively.
6	(l) Enactment of Chapter 315.—
7	(1) Enactment of Chapter.—
8	(A) CONTENT.—Title 51, United States
9	Code, as amended by subsection (k), is amend-
10	ed by inserting after chapter 313 (and before
11	"CHAPTERS 317 THROUGH 397–RE-
12	SERVED" as inserted by subsection $(k)(1)$ the
13	following:
14	"Chapter 315—FACILITIES AND
15	INFRASTRUCTURE

16 "§ 31501. Policy and plan

- 17 "(a) Policy.—It is the policy of the United States
- 18 that the Administration maintain reliable and efficient fa-
- 19 cilities and infrastructure and that decisions on whether
- 20 to dispose of, maintain, or modernize existing facilities or
- 21 infrastructure be made in the context of meeting future
- 22 Administration needs.
- 23 "(b) Plan.—

[&]quot;Sec.

[&]quot;31501. Policy and plan.

[&]quot;31502. Maintenance and upgrade of center facilities.

1	"(1) In General.—The Administrator shall
2	develop a facilities and infrastructure plan.
3	"(2) Goal.—The goal of the plan is to position
4	the Administration to have the facilities and infra-
5	structure, including laboratories, tools, and ap-
6	proaches, necessary to meet future Administration
7	and other Federal agencies' laboratory needs.
8	"(3) Contents.—The plan shall identify—
9	"(A) current Administration and other
10	Federal agency laboratory needs;
11	"(B) future Administration research and
12	development and testing needs;
13	"(C) a strategy for identifying facilities
14	and infrastructure that are candidates for dis-
15	posal, which strategy is consistent with the na-
16	tional strategic direction set forth in—
17	"(i) the National Space Policy;
18	"(ii) the National Aeronautics Re-
19	search, Development, Test, and Evaluation
20	Infrastructure Plan;
21	"(iii) the National Aeronautics and
22	Space Administration Authorization Act of
23	2005 (Public Law 109–155, 119 Stat.
24	2895), the National Aeronautics and Space
25	Administration Authorization Act of 2008

1	(Public Law 110–422, 122 Stat. 4779),
2	and the National Aeronautics and Space
3	Administration Authorization Act of 2010
4	(Public Law 111–267, 124 Stat. 2805);
5	and
6	"(iv) the human exploration roadmap
7	under section 71721 of this title;
8	"(D) a strategy for the maintenance, re-
9	pair, upgrading, and modernization of Adminis-
10	tration facilities and infrastructure, including
11	laboratories and equipment;
12	"(E) criteria for—
13	"(i) prioritizing deferred maintenance
14	tasks;
15	"(ii) maintaining, repairing, upgrad-
16	ing, or modernizing Administration facili-
17	ties and infrastructure; and
18	"(iii) implementing processes, plans,
19	and policies for guiding the Administra-
20	tion's centers on whether to maintain, re-
21	pair, upgrade, or modernize a facility or
22	infrastructure and for determining the type
23	of instrument to be used;
24	"(F) an assessment of modifications need-
25	ed to maximize usage of facilities that offer

1	unique and highly specialized benefits to the
2	aerospace industry and the American public;
3	and
4	"(G) implementation steps, including a
5	timeline, milestones, and an estimate of re-
6	sources required for carrying out the plan.
7	"(c) REQUIREMENT TO ESTABLISH POLICY.—
8	"(1) In general.—Not later than 180 days
9	after March 21, 2017, the Administrator shall estab-
10	lish and make publicly available a policy that guides
11	the Administration's use of existing authorities to
12	out-grant, lease, excess to the General Services Ad-
13	ministration, sell, decommission, demolish, or other-
14	wise transfer property, facilities, or infrastructure.
15	"(2) Criteria.—The policy shall include cri-
16	teria for the use of authorities, best practices, stand-
17	ardized procedures, and guidelines for how to appro-
18	priately manage property, facilities, and infrastruc-
19	ture.
20	"(d) Submission to Congress.—Not later than 1
21	year after March 21, 2017, the Administrator shall submit
22	to the Committee on Commerce, Science, and Transpor-
23	tation of the Senate and the Committee on Science, Space,
24	and Technology of the House of Representatives the plan
25	developed under subsection (b).".

1	(B) Typeface.—The chapter heading of
2	chapter 315 of title 51, United States Code, as
3	inserted by subparagraph (A), is amended so
4	that the typeface of that chapter heading con-
5	forms to the typeface of other chapter headings
6	in title 51, United States Code.
7	(2) Redesignation of Section 39902 as Sec-
8	TION 31502.—
9	(A) REDESIGNATION AND TRANSFER.—
10	Section 39902 of title 51, United States Code,
11	as redesignated by subsection (k)(3)(B), is re-
12	designated as section 31502 of title 51, United
13	States Code, and transferred to appear after
14	section 31501 of title 51, United States Code,
15	as inserted by paragraph (1).
16	(B) AMENDMENT OF SECTION 31502.—Sec-
17	tion 31502 of title 51, United States Code, as
18	redesignated and transferred by subparagraph
19	(A), is amended—
20	(i) in the heading, by striking
21	"Maintenance of facilities" and in-
22	serting "Maintenance and upgrade
23	of center facilities";
24	(ii) by striking "healthy Centers" and
25	inserting "healthy centers"; and

1	(iii) by striking "Center facilities" and
2	inserting "center facilities".
3	(C) Conforming amendments to Chap-
4	TER 399.—Chapter 399 of title 51, United
5	States Code, as redesignated and amended by
6	subsections (k) and (l)(2)(A), is amended—
7	(i) in the chapter table of contents—
8	(I) by striking the item relating
9	to section 39902; and
10	(II) by redesignating the items
11	relating to sections 39903, 39904,
12	and 39905 as items relating to sec-
13	tions 39902, 39903, and 39904, re-
14	spectively; and
15	(ii) by redesignating sections 39903,
16	39904, and 39905 as sections 39902,
17	39903, and 39904, respectively.
18	(m) Revision of Section 39901.—Section 39901
19	of title 51, United States Code (as redesignated by sub-
20	section (k)(3)), is amended—
21	(1) by redesignating the existing text as sub-
22	section (a) and inserting the subsection heading
23	"Technologies To Decrease Risk.—"; and
24	(2) by adding at the end the following:
25	"(b) International Discussion.—

1	"(1) In General.—The Administrator shall, in
2	consultation with such other departments and agen-
3	cies of the Federal Government as the Administrator
4	considers appropriate, continue and strengthen dis-
5	cussions with the representatives of other space-
6	faring countries, within the Inter-Agency Space De-
7	bris Coordination Committee and elsewhere, to deal
8	with orbital debris mitigation.
9	"(2) Interagency effort.—For purposes of
10	carrying out this subsection, the Director of the Of-
11	fice of Science and Technology Policy, in coordina-
12	tion with the Director of the National Security
13	Council and using the President's Council of Advi-
14	sors on Science and Technology coordinating mecha-
15	nism, shall develop an overall strategy for review by
16	the President, with recommendations for proposed
17	international collaborative efforts to address the
18	challenge of orbital debris mitigation.".
19	(n) Redesignation of Chapter 409 as Chapter
20	499.—
21	(1) Reserved Chapters.—Title 51, United
22	States Code, is amended by inserting after section
23	40704 the following:
24	"CHAPTERS 411 THROUGH 497—RE-
25	SERVED".

1	(2) Redesignation of Chapter.—Title 51,
2	United States Code, is amended by redesignating
3	chapter 409 as chapter 499.
4	(3) Redesignation of sections.—Chapter
5	499 of title 51, United States Code (as redesignated
6	by paragraph (2)), is amended—
7	(A) in the chapter table of contents, by re-
8	designating the items for sections 40901
9	through 40909 as items for sections 49901
10	through 49909, respectively; and
11	(B) by redesignating sections 40901
12	through 40909 as sections 49901 through
13	49909, respectively.
14	(o) ENACTMENT OF CHAPTER 409.—Title 51, United
15	States Code, is amended by inserting after chapter 407
16	(and before "CHAPTERS 411 THROUGH 497—RE-
17	SERVED" as inserted by subsection (n)(1)) the following:
18	"Chapter 409—AERONAUTICS
19	AND SPACE TECHNOLOGY

$20\,$ "§ 40901. Aeronautics research goals

- 21 "The Administrator should ensure that the Adminis-
- 22 tration maintains a strong aeronautics research portfolio

[&]quot;Sec.

[&]quot;40901. Aeronautics research goals.

[&]quot;40902. Research collaboration.

[&]quot;40903. Goal for Administration space technology.

[&]quot;40904. National space technology policy.

[&]quot;40905. Commercial Reusable Suborbital Research Program.

1	ranging from fundamental research through systems re-
2	search with specific research goals, including the following:
3	"(1) AIRSPACE CAPACITY.—The Administra-
4	tion's Aeronautics Research Mission Directorate
5	shall address research needs of the Next Generation
6	Air Transportation System, including the ability of
7	the National Airspace System to handle up to 3
8	times the current travel demand by 2025.
9	"(2) Environmental sustainability.—The
10	Directorate shall—
11	"(A) consider and pursue concepts to re-
12	duce noise, emissions, and fuel consumption
13	while maintaining high safety standards; and
14	"(B) pursue research relating to alter-
15	native fuels.
16	"(3) AVIATION SAFETY.—The Directorate shall
17	proactively address safety challenges with new and
18	current air vehicles and with operations in the Na-
19	tion's current and future air transportation system.
20	"§ 40902. Research collaboration
21	"(a) Department of Defense.—The Adminis-
22	trator shall continue to coordinate with the Secretary of
23	Defense, through the National Partnership for Aero-
24	nautics Testing, to develop and implement joint plans for
25	those elements of the Nation's research, development, test-

- 1 ing, and engineering infrastructure that are of common
- 2 interest and use.
- 3 "(b) Federal Aviation Administration.—The
- 4 Administrator shall continue to coordinate with, and work
- 5 closely with, the Administrator of the Federal Aviation
- 6 Administration, under the framework of the Senior Policy
- 7 Council, in the development of the Next Generation Air
- 8 Transportation Program. The Administrator shall encour-
- 9 age the Council to explore areas for greater collaboration,
- 10 including areas in which the Administration can help to
- 11 accelerate the development and demonstration of NextGen
- 12 technologies.

13 "§ 40903. Goal for Administration space technology

- 14 "Building on its Innovative Partnerships Program
- 15 and other partnering approaches, it is critical that the Ad-
- 16 ministration maintain an Administration space technology
- 17 base that helps align mission directorate investments and
- 18 supports long term needs—
- 19 "(1) to complement mission-directorate funded
- 20 research; and
- 21 "(2) where appropriate, to support multiple
- 22 users.

23 "§ 40904. National space technology policy

- 24 "(a) In General.—The President, in consultation
- 25 with appropriate Federal agencies, shall develop a national

1	policy to guide the space technology development pro-
2	grams of the United States through 2020. The policy shall
3	include national goals for technology development and
4	shall describe the role and responsibilities of each Federal
5	agency that will carry out the policy. In developing the
6	policy, the President shall utilize external studies that
7	have been conducted on the state of United States tech-
8	nology development and have suggested policies to ensure
9	continued competitiveness.
10	"(b) Content.—At a minimum, the national space
11	technology development policy shall describe for the Ad-
12	ministration—
13	"(1) the priority areas of research for tech-
14	nology investment;
15	"(2) the basis on which and the process by
16	which priorities for ensuing fiscal years will be se-
17	lected;
18	"(3) the facilities and personnel needed to carry
19	out the technology development program; and
20	"(4) the budget assumptions on which the pol-
21	icy is based, which for fiscal years 2011, 2012, and
22	2013 shall be the authorized level for the Adminis-
23	tration's technology program authorized by the Na-
24	tional Aeronautics and Space Administration Au-

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thorization Act of 2010 (Public Law 111–267, 124

2	Stat. 2805).
3	"(c) Policy Premise.—The policy shall be based on
4	the premise that the Federal Government has an estab-
5	lished interest in conducting research and development
6	programs that help preserve the role of the United States
7	as a global leader in space technologies and their applica-
8	tion.
9	"(d) Considerations.—In developing the national
10	space technology development policy, the President shall
11	consider the following issues:
12	"(1) Long term and incremental develop-
13	MENT.—The extent to which the Administration
14	should focus on long term, high-risk research or
15	more incremental technology development, and the
16	expected impact of that decision on the United
17	States economy.
18	"(2) MILITARY AND COMMERCIAL NEEDS.—The
19	extent to which the Administration should address
20	military and commercial needs.
21	"(3) Coordination with federal agen-
22	CIES.—How the Administration will coordinate its
23	technology program with other Federal agencies.
24	"(4) Administration, university, and in-
25	DUSTRY RESEARCH.—The extent to which the Ad-

1	ministration will conduct research in-house, fund
2	university research, and collaborate on industry re-
3	search and the expected impact of that mix of fund-
4	ing on the supply of United States workers for in-
5	dustry.
6	"(e) Consultation.—In the development of the na-
7	tional space technology development policy, the President
8	shall consult widely with academic and industry experts
9	and with Federal agencies. The Administrator may enter
10	into an arrangement with the National Academy of
11	Sciences to help develop the policy.
12	"§ 40905. Commercial Reusable Suborbital Research
13	Program
13 14	Program "(a) Finding That Suborbital Science Missions
14	"(a) Finding That Suborbital Science Missions
14 15	"(a) FINDING THAT SUBORBITAL SCIENCE MISSIONS ARE CRITICAL.—The report entitled Revitalizing NASA's
141516	"(a) FINDING THAT SUBORBITAL SCIENCE MISSIONS ARE CRITICAL.—The report entitled Revitalizing NASA's Suborbital Program: Advancing Science, Driving Innova-
14151617	"(a) FINDING THAT SUBORBITAL SCIENCE MISSIONS ARE CRITICAL.—The report entitled Revitalizing NASA's Suborbital Program: Advancing Science, Driving Innovation, and Developing a Workforce (prepared by the Com-
14 15 16 17 18	"(a) FINDING THAT SUBORBITAL SCIENCE MISSIONS ARE CRITICAL.—The report entitled Revitalizing NASA's Suborbital Program: Advancing Science, Driving Innovation, and Developing a Workforce (prepared by the Committee on NASA's Suborbital Research Capabilities, Space
141516171819	"(a) FINDING THAT SUBORBITAL SCIENCE MISSIONS ARE CRITICAL.—The report entitled Revitalizing NASA's Suborbital Program: Advancing Science, Driving Innovation, and Developing a Workforce (prepared by the Committee on NASA's Suborbital Research Capabilities, Space Studies Board, Division on Engineering and Physical
14 15 16 17 18 19 20	"(a) FINDING THAT SUBORBITAL SCIENCE MISSIONS ARE CRITICAL.—The report entitled Revitalizing NASA's Suborbital Program: Advancing Science, Driving Innovation, and Developing a Workforce (prepared by the Committee on NASA's Suborbital Research Capabilities, Space Studies Board, Division on Engineering and Physical Sciences, National Research Council of the National Acad-
14 15 16 17 18 19 20 21	"(a) FINDING THAT SUBORBITAL SCIENCE MISSIONS ARE CRITICAL.—The report entitled Revitalizing NASA's Suborbital Program: Advancing Science, Driving Innovation, and Developing a Workforce (prepared by the Committee on NASA's Suborbital Research Capabilities, Space Studies Board, Division on Engineering and Physical Sciences, National Research Council of the National Academies) found that suborbital science missions are absorbital science missions.

1	"(b) Establishment.—The Administrator shall es-
2	tablish a Commercial Reusable Suborbital Research Pro-
3	gram within the Space Technology Program.
4	"(c) Management.—The Administrator shall des-
5	ignate an officer or employee of the Space Technology
6	Program to act as the responsible official for the Commer-
7	cial Reusable Suborbital Research Program. The designee
8	shall be responsible for the development of short- and
9	long-term strategic plans for maintaining, renewing, and
10	extending suborbital facilities and capabilities.
11	"(d) Activities.—The Commercial Reusable Sub-
12	orbital Research Program—
13	"(1) shall fund the development of payloads for
14	scientific research, technology development, and edu-
15	eation;
16	"(2) shall provide flight opportunities to micro-
17	gravity environments and suborbital altitudes for the
18	payloads referred to in paragraph (1);
19	"(3) may fund engineering and integration
20	demonstrations, proofs of concept, or educational ex-
21	periments for commercial reusable vehicle flights;
22	and
23	"(4) shall endeavor to work with the Adminis-
24	tration's mission directorates to help achieve the Ad-

1	ministration's research, technology, and education	
2	goals.	
3	"(e) Report.—The Administrator shall annually	
4	submit to the Committee on Commerce, Science, and	
5	Transportation of the Senate and the Committee on	
6	Science, Space, and Technology of the House of Rep	
7	resentatives a report describing progress in carrying ou	
8	3 the Commercial Reusable Suborbital Research program	
9	including the number and type of suborbital mission	
10	planned in each fiscal year.".	
11	(p) Enactment of Sections 49910 Through	
12	49912.—	
13	(1) Chapter table of contents.—The	
14	chapter table of contents of chapter 499 of title 51	
15	5 United States Code (as redesignated and amende	
16	by subsection (n)), is amended by adding at the e	
17	the following:	
	 "49910. Programs to support STEM education. "49911. Supporting women's involvement in the fields of aerospace and space exploration. "49912. Internship and fellowship opportunities.". 	
18	(2) Enactment of Sections.—Chapter 499	

^{18 (2)} ENACTMENT OF SECTIONS.—Chapter 499
19 of title 51, United States Code (as redesignated and
20 amended by subsection (n)), is amended by adding
21 at the end the following:

1	"§ 49910. Programs to support STEM education	
2	"(a) DEFINITION OF STEM.—In this section, the	
3	term 'STEM' means the academic and professional dis-	
4	ciplines of science, technology, engineering, and mathe-	
5	matics.	
6	"(b) Educational Program Goals.—The Admin-	
7	istration shall develop and maintain educational programs	
8	3 to—	
9	"(1) carry out and support research-based pro-	
10	grams and activities designed to increase student in-	
11	terest and participation in STEM, including stu-	
12	dents from minority and underrepresented groups;	
13	"(2) improve public literacy in STEM;	
14	"(3) employ proven strategies and methods for	
15	improving student learning and teaching in STEM;	
16	"(4) provide curriculum support materials and	
17	other resources that—	
18	"(A) are designed to be integrated with	
19	comprehensive STEM education;	
20	"(B) are aligned with national science edu-	
21	cation standards; and	
22	"(C) promote the adoption and implemen-	
23	tation of high-quality education practices that	
24	build toward college and career-readiness; and	
25	"(5) create and support opportunities for en-	
26	hanced and ongoing professional development for	

1	teachers using best practices that improve the
2	STEM content and knowledge of the teachers, in-
3	cluding through programs linking STEM teachers
4	with STEM educators at the higher education level.
5	"(c) Cybersecurity in STEM Programs.—In car-
6	rying out any STEM education program of the Adminis-
7	tration, including a program of the Office of STEM En-
8	gagement, the Administrator shall, to the maximum extent
9	practicable, encourage the inclusion of cybersecurity edu-
10	cation opportunities in the program.
11	"§ 49911. Supporting women's involvement in the
12	fields of aerospace and space exploration
12 13	fields of aerospace and space exploration "The Administrator shall encourage women and girls
13	"The Administrator shall encourage women and girls
13 14 15	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathe-
13 14 15	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathematics, pursue careers in aerospace, and further advance
13 14 15 16	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathematics, pursue careers in aerospace, and further advance the Nation's space science and exploration efforts through
13 14 15 16	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathematics, pursue careers in aerospace, and further advance the Nation's space science and exploration efforts through support of the following initiatives:
113 114 115 116 117	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathematics, pursue careers in aerospace, and further advance the Nation's space science and exploration efforts through support of the following initiatives: "(1) NASA GIRLS and NASA BOYS.
13 14 15 16 17 18	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathematics, pursue careers in aerospace, and further advance the Nation's space science and exploration efforts through support of the following initiatives: "(1) NASA GIRLS and NASA BOYS. "(2) Aspire to Inspire.
13 14 15 16 17 18 19 20	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathematics, pursue careers in aerospace, and further advance the Nation's space science and exploration efforts through support of the following initiatives: "(1) NASA GIRLS and NASA BOYS. "(2) Aspire to Inspire. "(3) Summer Institute in Science, Technology,
13 14 15 16 17 18 19 20 21	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathematics, pursue careers in aerospace, and further advance the Nation's space science and exploration efforts through support of the following initiatives: "(1) NASA GIRLS and NASA BOYS. "(2) Aspire to Inspire. "(3) Summer Institute in Science, Technology, Engineering, and Research.
13 14 15 16 17 18 19 20 21	"The Administrator shall encourage women and girls to study science, technology, engineering, and mathematics, pursue careers in aerospace, and further advance the Nation's space science and exploration efforts through support of the following initiatives: "(1) NASA GIRLS and NASA BOYS. "(2) Aspire to Inspire. "(3) Summer Institute in Science, Technology, Engineering, and Research. "§ 49912. Internship and fellowship opportunities

1	underrepresented in the fields of science, technology, engi-
2	neering, and mathematics (STEM) and computer science
3	for internships and fellowships at the Administration with
4	relevance to the aerospace sector and related fields.".
5	(q) Revision of Section 50905.—Section 50905 of
6	title 51, United States Code, is amended—
7	(1) in the 2d sentence of subsection (a)(1), by
8	striking "subsection (b)(2)(D)" and inserting "sub-
9	section $(b)(2)(E)$ ";
10	(2) in the 3d sentence of subsection (a)(1), by
11	striking "subsection (b)(2)(D)" and inserting "sub-
12	section $(b)(2)(E)$ ";
13	(3) in the last sentence of subsection (a)(1), by
14	striking "Committee on Science" and inserting
15	"Committee on Science, Space, and Technology";
16	(4) in subsection $(b)(4)(B)$, by striking "the
17	date of enactment of the Commercial Space Launch
18	Amendments Act of 2004" and inserting "December
19	23, 2004";
20	(5) in subsection (b)(6)(A), by striking "the
21	date of enactment of the Commercial Space Launch
22	Amendments Act of 2004" and inserting "December
23	23, 2004"; and
24	(6) in subsection (b)(6)(B), by striking "the
25	date of enactment of the Commercial Space Launch

1	Amendments Act of 2004" and inserting "December
2	23, 2004".
3	(r) Revision of Section 50922.—Section 50922 of
4	title 51, United States Code, is amended—
5	(1) in subsection (a) (matter before paragraph
6	(1)), by striking "the date of the enactment of this
7	section," and inserting "October 28, 1998,";
8	(2) in subsection (b) (matter before paragraph
9	(1)), by striking "the date of the enactment of this
10	section," and inserting "October 28, 1998,";
11	(3) in subsection $(c)(1)$ —
12	(A) by striking "the date of enactment of
13	the Commercial Space Launch Amendments
14	Act of 2004," and inserting "December 23,
15	2004,";
16	(B) by striking "that Act," and inserting
17	"the Commercial Space Launch Amendments
18	Act of 2004,"; and
19	(C) by striking "such date of enactment,"
20	and inserting "December 23, 2004,";
21	(4) in subsection $(c)(2)(A)$ —
22	(A) by striking "the date of enactment of
23	the Commercial Space Launch Amendments
24	Act of 2004," and inserting "December 23,
25	2004,"; and

1	(B) by striking "the Congress." and insert-
2	ing "Congress.";
3	(5) in subsection $(d)(2)$ —
4	(A) by striking "the date of enactment of
5	the Commercial Space Launch Amendments
6	Act of 2004," and inserting "December 23,
7	2004,"; and
8	(B) by striking "that Act" and inserting
9	"the Commercial Space Launch Amendments
10	Act of 2004"; and
11	(6) in subsection (d)(3), by striking "the date
12	of enactment of the Commercial Space Launch
13	Amendments Act of 2004" and inserting "December
14	23, 2004,".
15	(s) REVISION OF CHAPTER 515.—
16	(1) Table of contents.—Chapter 515 of
17	title 51, United States Code, is amended by insert-
18	ing after the chapter heading the following:
	"Sec. "51501. Establishment of Office of Spaceports.".
19	(2) REVISION OF SECTION 51501.—Section
20	51501 of title 51, United States Code, is amended—
21	(A) by redesignating subsections (a), (b),
22	(c), (d), and (e) as subsections (b), (c), (d), (e),
23	and (a), respectively, and transferring sub-

1	section (a), as redesignated, to appear at the
2	beginning of the section;
3	(B) in the heading for subsection (a), as
4	redesignated, by striking "Definition" and in-
5	serting "Definition of Spaceport";
6	(C) in subsection (a), as redesignated, by
7	inserting a comma after "In this section";
8	(D) in subsection (b), as redesignated, by
9	striking "the date of enactment of this section,"
10	and inserting "October 5, 2018,"; and
11	(E) in subsection (d), as redesignated—
12	(i) by striking "functions assigned in
13	subsection (b)," and inserting "functions
14	assigned in subsection (e),"; and
15	(ii) by striking "host" from the end of
16	the matter before paragraph (1) and in-
17	serting "host" at the beginning of para-
18	graph (1).
19	(t) Enactment of Chapter 517.—Title 51, United
20	States Code, is amended by inserting after chapter 515
21	the following:

"Chapter **517—DEVELOPMENT** AND USE OF COMMERCIAL 2 CARGO AND CREW TRANS-3 PORTATION CAPABILITIES 4

"Sec.

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3	"§51701. Commercial development of cargo transpor-
6	tation capabilities
7	"The Administrator shall continue to support the ex-
8	isting Commercial Resupply Services program, aimed at
9	enabling the commercial space industry in support of the
10	Administration to develop reliable means of launching
11	cargo and supplies to the International Space Station
12	throughout the duration of the facility's operation. The
13	Administrator may apply funds toward the reduction of
14	risk to the timely start of the services, specifically—
15	"(1) efforts to conduct a flight test;
16	"(2) the acceleration of development; and
17	"(3) the development of the ground infrastruc-
18	ture needed for commercial cargo capability.
19	"§ 51702. Commercial development of crew transpor-
20	tation capabilities
21	"For the duration of the commercial crew develop-
22	ment program, the Administrator may support follow-on

[&]quot;51701. Commercial development of cargo transportation capabilities.

[&]quot;51702. Commercial development of crew transportation capabilities.

[&]quot;51703. Commercial Crew Program.

[&]quot;51704. Policy regarding fair and open competition for space transportation services.

[&]quot;51705. Transparency.

1	commercially developed crew transportation systems de-
2	pendent on the completion of each of the following:
3	"(1) Human rating requirements.—The
4	Administrator shall develop and make available to
5	the public detailed human rating processes and re-
6	quirements to guide the design of commercially de-
7	veloped crew transportation capabilities, which re-
8	quirements shall be at least equivalent to proven re-
9	quirements for crew transportation in use as of Oc-
10	tober 11, 2010.
11	"(2) Procurement system review.—
12	"(A) REVIEW OF CURRENT PRACTICES
13	AND PROCESSES.—The Administrator shall re-
14	view current Government procurement and ac-
15	quisition practices and processes, including
16	agreement authorities under chapter 201 of this
17	title, to determine the most cost-effective means
18	of procuring commercial crew transportation ca-
19	pabilities and related services in a manner that
20	ensures appropriate accountability, trans-
21	parency, and maximum efficiency in the pro-
22	curement of the capabilities and services. The
23	review shall include identification of proposed
24	measures to address—

1	"(i) risk management and means of
2	indemnification of commercial providers of
3	the capabilities and services;
4	"(ii) quality control;
5	"(iii) safety oversight; and
6	"(iv) the application of Federal over-
7	sight processes within the jurisdiction of
8	other Federal agencies.
9	"(B) REVIEW OF PROPOSED PROCURE-
10	MENT.—A description of the proposed procure-
11	ment process and justification of the proposed
12	procurement for its selection shall be included
13	in any proposed initiation of procurement activ-
14	ity for commercially developed crew transpor-
15	tation capabilities and services and shall be sub-
16	ject to review by the Committee on Commerce,
17	Science, and Transportation of the Senate and
18	the Committee on Science, Space, and Tech-
19	nology of the House of Representatives before
20	the initiation of any competitive process to pro-
21	cure the capabilities or services. In support of
22	the review by the committees, the Comptroller
23	General shall undertake an assessment of the
24	proposed procurement process and provide a re-
25	port to the committees not later than 90 days

1 after the date on which the Administrator pro-2 vides the description and justification to the 3 committees. "(3) Use of government-supplied capa-4 5 BILITIES AND INFRASTRUCTURE.—In evaluating any 6 proposed development activity for commercially developed crew or cargo launch capabilities, the Ad-7 8 ministrator shall identify the anticipated contribu-9 tion of Government personnel, expertise, tech-10 nologies, and infrastructure to be utilized in support 11 of design, development, or operations of the capabili-12 ties. This assessment shall include a clear delinea-13 tion of the full requirements for the commercial crew 14 service (including the contingency for crew rescue). 15 The Administrator shall include details and associ-16 ated costs of such support as part of any proposed 17 development initiative for the procurement of com-18 mercially developed crew or cargo launch capabilities 19 or services. 20 "(4) Flight demonstration and readiness 21 REQUIREMENTS.—The Administrator shall establish 22 appropriate milestones and minimum performance 23 objectives to be achieved before authority is granted 24 to proceed to the procurement of commercially devel-25 oped crew transportation capabilities or services. 1

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The guidelines shall include a procedure to provide independent assurance of flight safety and flight readiness before the authorization of United States government personnel to participate as crew onboard any commercial launch vehicle developed pursuant to this section.

"(5) COMMERCIAL CREW RESCUE CAPABILI-TIES.—The provision of a commercial capability to provide International Space Station crew services shall include crew rescue requirements, and shall be undertaken through the procurement process initiated in conformance with this section. In the event such development is initiated, the Administrator shall make available any relevant government-owned intellectual property deriving from the development of a multipurpose crew vehicle authorized by this section and sections 71522 and 71523 of this title to commercial entities involved with such crew rescue capability development which shall be relevant to the design of a crew rescue capability. In addition, the Administrator shall seek to ensure that contracts for development of the multipurpose crew vehicle contain provisions for the licensing of relevant intellectual property to participating commercial providers of any crew rescue capability development un-

1	dertaken pursuant to this section. If 1 or more con-
2	tractors involved with development of the multipur-
3	pose crew vehicle seek to compete in development of
4	a commercial crew service with crew rescue capa-
5	bility, separate legislative authority must be enacted
6	to enable the Administrator to provide funding for
7	any modifications of the multipurpose crew vehicle
8	necessary to fulfill the International Space Station
9	crew rescue function.
10	"§ 51703. Commercial Crew Program
11	"(a) Objective.—The objective of the Commercial
12	Crew Program shall be to assist in the development and
13	certification of commercially provided transportation
14	that—
15	"(1) can carry United States government astro-
16	nauts (meaning a United States government astro-
17	naut as defined in section 50902 of this title, except
18	it does not include an individual who is an inter-
19	national partner astronaut) safely, reliably, and
20	affordably to and from the International Space Sta-
21	tion;
22	"(2) can serve as a crew rescue vehicle; and
23	"(3) can accomplish the goals stated in para-
24	graphs (1) and (2) as soon as practicable.

1	"(b) Primary Consideration.—The objective de-
2	scribed in subsection (a) shall be the primary consider-
3	ation in the acquisition strategy for the Commercial Crew
4	Program.
5	"(c) Safety.—
6	"(1) In General.—The Administrator shall
7	protect the safety of government astronauts (as de-
8	fined in section 50902 of this title) by ensuring that
9	each commercially provided transportation system
10	under this section meets all applicable human rating
11	requirements in accordance with section 51702(1) of
12	this title.
13	"(2) Lessons Learned.—Consistent with the
14	findings and recommendations of the Columbia Acci-
15	dent Investigation Board, the Administration shall
16	ensure that safety and the minimization of the prob-
17	ability of loss of crew are the critical priorities of the
18	Commercial Crew Program.
19	"(d) Cost Minimization.—The Administrator shall
20	strive through the competitive selection process to mini-
21	mize the life cycle cost to the Administration through the
22	planned period of commercially provided crew transpor-
23	tation services.

1	" \S 51704. Policy regarding fair and open competition
2	for space transportation services
3	"It is the policy of the United States that, to foster
4	the competitive development, operation, improvement, and
5	commercial availability of space transportation services,
6	and to minimize the life cycle cost to the Administration,
7	the Administrator shall procure services for Federal Gov-
8	ernment access to and return from the International
9	Space Station, whenever practicable, via fair and open
10	competition for well-defined, milestone-based, Federal Ac-
11	quisition Regulation-based contracts under section
12	71511(a) of this title.
13	"§ 51705. Transparency
14	"The Administrator shall, to the greatest extent prac-
15	ticable and in a manner that does not add costs or sched-
16	ule delays to the program, ensure all Commercial Crew
17	Program and Commercial Resupply Services Program pro-
18	viders provide evidence-based support for their costs and
19	schedules.".
20	(u) Revision of Section 60304.—
21	(1) Revision of Section.—Section 60304 of
22	title 51, United States Code, is amended—
23	(A) in the section heading, by striking
24	"Program evaluation" and inserting "Ad-
25	visory committee":

1	(B) in subsection (a), by striking the sub-
2	section designation "(a)" and the subsection
3	heading "Advisory Committee.—"; and
4	(C) by striking subsection (b).
5	(2) Conforming amendment.—The chapter
6	table of contents of chapter 603 of title 51, United
7	States Code, is amended by striking the item relat-
8	ing to section 60304 and inserting the following:
	"60304. Advisory committee.".
9	(v) Enactment of Sections 60507 Through
10	60510.—
11	(1) Chapter table of contents.—The
12	chapter table of contents of chapter 605 of title 51,
13	United States Code, is amended by adding at the
14	end the following:
	"60507. Interagency collaboration implementation approach. "60508. Transitioning experimental research to operations. "60509. Decadal Survey missions implementation for Earth observation. "60510. Instrument testbeds and venture class missions.".
15	(2) Enactment of Sections.—Chapter 605
16	of title 51, United States Code, is amended by add-
17	ing at the end the following:
18	"§ 60507. Interagency collaboration implementation
19	approach
20	"The Director of the Office of Science and Tech-
0.1	
21	nology Policy shall establish a mechanism to ensure great-

1	relating to civilian Earth observation of Federal agencies,
2	including the Administration, that have active programs
3	that contribute either directly or indirectly to those areas.
4	The mechanism should include the development of a stra-
5	tegic implementation plan that is updated at least every
6	3 years with a process for external independent advisory
7	input. The strategic implementation plan should include—
8	"(1) a description of the responsibilities of the
9	various Federal agency roles in Earth observations;
10	"(2) recommended cost-sharing and procure-
11	ment arrangements between Federal agencies and
12	other entities, including international arrangements;
13	and
14	"(3) a plan for ensuring the provision of sus-
14	"(3) a plan for ensuring the provision of sustained, long-term space-based climate observations.
14 15	
14 15 16	tained, long-term space-based climate observations.
	tained, long-term space-based climate observations. "§ 60508. Transitioning experimental research to op-
14 15 16 17	tained, long-term space-based climate observations. "§ 60508. Transitioning experimental research to operations
14 15 16 17 18	tained, long-term space-based climate observations. "\$ 60508. Transitioning experimental research to operations "Based on the implementation plan provided to Con-
14 15 16 17 18	tained, long-term space-based climate observations. "\$ 60508. Transitioning experimental research to operations "Based on the implementation plan provided to Congress in March 2011, the Administrator shall coordinate
14 15 16 17 18 19 20	tained, long-term space-based climate observations. "§ 60508. Transitioning experimental research to operations "Based on the implementation plan provided to Congress in March 2011, the Administrator shall coordinate with the Administrator of the National Oceanic and At-
14 15 16 17 18 19 20 21	tained, long-term space-based climate observations. "§ 60508. Transitioning experimental research to operations "Based on the implementation plan provided to Congress in March 2011, the Administrator shall coordinate with the Administrator of the National Oceanic and Atmospheric Administration and the Director of the United
14 15 16 17 18 19 20 21 22 23	tained, long-term space-based climate observations. "\$60508. Transitioning experimental research to operations "Based on the implementation plan provided to Congress in March 2011, the Administrator shall coordinate with the Administrator of the National Oceanic and Atmospheric Administration and the Director of the United States Geological Survey to establish a formal mechanism

1	Atmospheric Administration and the United States Geo-
2	logical Survey. In defining the mechanism, the Adminis-
3	tration should consider the establishment of a formal or
4	informal interagency transition office.
5	"§ 60509. Decadal Survey missions implementation
6	for Earth observation
7	"The Administrator shall undertake to implement, as
8	appropriate, missions identified in the National Research
9	Council's Earth Science Decadal Survey within the scope
10	of the funds authorized for the Earth Science Mission Di-
11	rectorate.
12	"§ 60510. Instrument testbeds and venture class mis-
13	sions
15	510115
14	"The Administrator shall pursue innovative ways to
14	"The Administrator shall pursue innovative ways to
14 15 16	"The Administrator shall pursue innovative ways to fly instrument-level payloads for early demonstration or
14 15 16	"The Administrator shall pursue innovative ways to fly instrument-level payloads for early demonstration or as co-manifested payloads. Congress encourages the use
14 15 16 17	"The Administrator shall pursue innovative ways to fly instrument-level payloads for early demonstration or as co-manifested payloads. Congress encourages the use of the International Space Station as an accessible plat-
14 15 16 17	"The Administrator shall pursue innovative ways to fly instrument-level payloads for early demonstration or as co-manifested payloads. Congress encourages the use of the International Space Station as an accessible plat- form for the conduct of such activities. Additionally, in
114 115 116 117 118	"The Administrator shall pursue innovative ways to fly instrument-level payloads for early demonstration or as co-manifested payloads. Congress encourages the use of the International Space Station as an accessible plat- form for the conduct of such activities. Additionally, in order to address the cost and schedule challenges associ-
14 15 16 17 18 19 20	"The Administrator shall pursue innovative ways to fly instrument-level payloads for early demonstration or as co-manifested payloads. Congress encourages the use of the International Space Station as an accessible plat- form for the conduct of such activities. Additionally, in order to address the cost and schedule challenges associ- ated with large flight systems, the Administrator should
14 15 16 17 18 19 20 21	"The Administrator shall pursue innovative ways to fly instrument-level payloads for early demonstration or as co-manifested payloads. Congress encourages the use of the International Space Station as an accessible plat- form for the conduct of such activities. Additionally, in order to address the cost and schedule challenges associ- ated with large flight systems, the Administrator should pursue smaller systems to the extent practicable and war-
14 15 16 17 18 19 20 21	"The Administrator shall pursue innovative ways to fly instrument-level payloads for early demonstration or as co-manifested payloads. Congress encourages the use of the International Space Station as an accessible platform for the conduct of such activities. Additionally, in order to address the cost and schedule challenges associated with large flight systems, the Administrator should pursue smaller systems to the extent practicable and warranted.".

1	United States Code, is amended by adding at the
2	end the following:
	"70908. Continuation of the International Space Station. "70909. Maximum utilization of the International Space Station. "70910. Operation, maintenance, and maximum utilization of United States segment.
	"70911. Management of national laboratory. "70912. Primary objectives of International Space Station program.".
3	(2) TECHNICAL AMENDMENT TO SECTION
4	70902.—Section 70902 of title 51, United States
5	Code, is amended by striking "section 40904" and
6	inserting "section 49904".
7	(3) TECHNICAL AMENDMENT TO SECTION
8	70903.—Section 70903(1) of title 51, United States
9	Code, is amended by striking "section 40904" and
10	inserting "section 49904".
11	(4) TECHNICAL AMENDMENTS TO SECTION
12	70904.—Section 70904 of title 51, United States
13	Code, is amended—
14	(A) in subsection (b)(2), by striking "sec-
15	tion 40904" and inserting "section 49904";
16	(B) in subsection (b)(3), by striking "Com-
17	mittee on Science and Technology" and insert-
18	ing "Committee on Science, Space, and Tech-
19	nology"; and
20	(C) in subsection (c)(2), by striking "Com-
21	mittee on Science and Technology" and insert-

1	ing "Committee on Science, Space, and Tech-
2	nology''.
3	(5) Enactment of sections 70908 through
4	70912.—Chapter 709 of title 51, United States Code
5	is amended by adding at the end the following:
6	"§ 70908. Continuation of the International Space
7	Station
8	"(a) Policy.—It shall be the policy of the United
9	States, in consultation with its international partners in
10	the International Space Station program, to support full
11	and complete utilization of the International Space Station
12	through at least September 30, 2030.
13	"(b) ACTIONS.—In furtherance of the policy set forth
14	in subsection (a), the Administration shall—
15	"(1) pursue international, commercial, and
16	intragovernmental means to maximize International
17	Space Station logistics supply, maintenance, and
18	operational capabilities, reduce risks to International
19	Space Station systems sustainability, and offset and
20	minimize United States operations costs relating to
21	the International Space Station;
22	"(2) utilize, to the extent practicable, the Inter-
23	national Space Station for the development of capa-
24	bilities and technologies needed for the future of

1	human space exploration beyond low-Earth orbit;
2	and
3	"(3) utilize, if practical and cost effective, the
4	International Space Station for Science Mission Di-
5	rectorate missions in low-Earth orbit.
6	"§ 70909. Maximum utilization of the International
7	Space Station
8	"(a) In General.—With assembly of the Inter-
9	national Space Station complete, the Administration shall
10	take steps to maximize the productivity and use of the
11	International Space Station with respect to scientific and
12	technological research and development, advancement of
13	space exploration, and international collaboration.
14	"(b) Actions.—In carrying out subsection (a), the
15	Administration shall, at a minimum, undertake the fol-
16	lowing:
17	"(1) Innovative use of u.s. segment.—The
18	United States segment of the International Space
19	Station, which has been designated as a national
20	laboratory, shall be developed, managed, and utilized
21	in a manner that enables the effective and innovative
22	use of the facility, as provided in section 70911 of
23	this title.
24	"(2) International cooperation.—

1	"(A) DEFINITION OF NEAR-EARTH
2	SPACE.—In this paragraph, the term 'near-
3	Earth space' means the region of space that in-
4	cludes low-Earth orbit and extends out to and
5	includes geo-synchronous orbit.
6	"(B) USE OF INTERNATIONAL SPACE STA-
7	TION.—The International Space Station shall
8	continue to be utilized as a key component of
9	international efforts to build missions and capa-
10	bilities that further the development of a
11	human presence beyond near-Earth space and
12	advance United States security and economic
13	goals. The Administrator shall actively seek
14	ways to encourage and enable the use of Inter-
15	national Space Station capabilities to support
16	those efforts.
17	"(3) Domestic collaboration.—The oper-
18	ations, management, and utilization of the Inter-
19	national Space Station shall be conducted in a man-
20	ner that provides opportunities for collaboration with
21	other research programs and objectives of the
22	United States Government in cooperation with com-
23	mercial suppliers, users, and developers.

1	"§ 70910. Operation, maintenance, and maximum uti-
2	lization of United States segment
3	"(a) In General.—The Administrator shall take all
4	actions necessary to ensure the safe and effective oper-
5	ation, maintenance, and maximum utilization of the
6	United States segment of the International Space Station
7	through at least September 30, 2030.
8	"(b) Planning, Management, and Support.—
9	Utilization of research facilities and capabilities aboard
10	the International Space Station (other than exploration-
11	related research and technology development facilities and
12	capabilities, and associated ground support and logistics)
13	shall be planned, managed, and supported as provided in
14	section 70911 of this title. Exploration-related research
15	and technology development facilities, capabilities, and as-
16	sociated ground support and logistics shall be planned,
17	managed, and supported by the appropriate Administra-
18	tion organizations and officials in a manner that does not
19	interfere with other activities under section 70911 of this
20	title.
21	"§ 70911. Management of national laboratory
22	"(a) Cooperative Agreement With Not-for-
23	PROFIT ORGANIZATION FOR MANAGEMENT OF NATIONAL
24	Laboratory.—
25	"(1) In General.—The Administrator shall
26	provide initial financial assistance and enter into a

1 cooperative agreement with an appropriate organiza-2 tion that is exempt from taxation under section 3 501(c)(3) of the Internal Revenue Code of 1986 (26 4 U.S.C. 501(c)(3)) to manage the activities of the 5 International Space Station national laboratory in 6 accordance with this section. 7 "(2) QUALIFICATIONS.—The organization with 8 which the Administrator enters into the cooperative 9 agreement shall develop the capabilities to imple-10 ment research and development projects utilizing the 11 International Space Station national laboratory and 12 to otherwise manage the activities of the Inter-13 national Space Station national laboratory. 14 "(3) Prohibition on other activities.— 15 The cooperative agreement shall require the organi-16 zation entering into the agreement to engage exclu-17 sively in activities relating to the management of the 18 International Space Station national laboratory and 19 activities that promote its long-term research and 20 development mission as required by this section, 21 without any other organizational objectives or re-22 sponsibilities on behalf of the organization or any 23 parent organization or other entity.

"(b) Administration Liaison.—

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1	"(1) Designation.—The Administrator shall
2	designate an official or employee of the Space Oper-
3	ations Mission Directorate of the Administration to
4	act as liaison between the Administration and the
5	organization with which the Administrator enters
6	into a cooperative agreement under subsection (a)
7	with regard to the management of the International
8	Space Station national laboratory.
9	"(2) Consultation with Liaison.—The coop-
10	erative agreement shall require the organization en-
11	tering into the agreement to carry out its respon-
12	sibilities under the agreement in cooperation and
13	consultation with the official or employee designated
14	under paragraph (1).
15	"(c) Planning and Coordination of National
16	LABORATORY RESEARCH ACTIVITIES.—The Adminis-
17	trator shall provide initial financial assistance to the orga-
18	nization with which the Administrator enters into a coop-
19	erative agreement under subsection (a), in order for the
20	organization to initiate the following:
21	"(1) Planning and coordination of the Inter-
22	national Space Station national laboratory research
23	activities.
24	"(2) Development and implementation of guide-
25	lines, selection criteria, and flight support require-

1 ments for non-Administration scientific utilization of 2 International Space Station research capabilities and 3 facilities available in United States-owned modules of the International Space Station or in partner-5 owned facilities of the International Space Station 6 allocated to United States utilization by inter-7 national agreement. "(3) Interaction with and integration of the 8 9 International Space Station National Laboratory 10 Advisory Committee established under section 70906 11 of this title with the governance of the organization, 12 and review of recommendations provided by that Committee regarding agreements with non-Adminis-13 14 tration departments and agencies of the United 15 States Government, academic institutions and con-16 sortia, and commercial entities leading to the utiliza-17 tion of the International Space Station national lab-18 oratory facilities. "(4) Coordination of transportation require-19 20 ments in support of the International Space Station 21 national laboratory research and development objec-22 tives, including provision for delivery of instruments,

logistics support, and related experiment materials, and provision for return to Earth of collected sam-

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ples, materials, and scientific instruments in need of
 replacement or upgrade.

"(5) Cooperation with the Administration, other departments and agencies of the United States Government, the States, and commercial entities in ensuring the enhancement and sustained operations of non-exploration-related research payload ground support facilities for the International Space Station, including the Space Life Sciences Laboratory, the Space Station Processing Facility, and the Payload Operations Integration Center.

"(6) Development and implementation of scientific outreach and education activities designed to ensure effective utilization of International Space Station research capabilities, including the conduct of scientific assemblies, conferences, and other fora for the presentation of research findings, methods, and mechanisms for the dissemination of non-restricted research findings and the development of educational programs, course supplements, and interaction with educational programs at all grade levels, including student-focused research opportunities for conduct of research in the International Space Station national laboratory facilities.

1	"(7) Other matters relating to the utilization of
2	the International Space Station national laboratory
3	facilities for research and development as the Ad-
4	ministrator considers appropriate.
5	"(d) RESEARCH CAPACITY ALLOCATION AND INTE-
6	GRATION OF RESEARCH PAYLOADS.—
7	"(1) Allocation of international space
8	STATION RESEARCH CAPACITY.—The International
9	Space Station national laboratory managed experi-
10	ments shall be guaranteed access to, and utilization
11	of, not less than 50 percent of the United States re-
12	search capacity allocation, including power, cold
13	stowage, and requisite crew time onboard the Inter-
14	national Space Station through at least September
15	30, 2030. Access to the International Space Station
16	research capacity includes provision for the adequate
17	upmass and downmass capabilities to utilize the
18	International Space Station research capacity, as
19	available. The Administrator may allocate additional
20	capacity to the International Space Station national
21	laboratory should such capacity be in excess of Ad-
22	ministration research requirements.
23	"(2) Additional research capabilities.—If
24	any Administration research plan is determined to
25	require research capacity onboard the International

1 Space Station beyond the percentage allocated under 2 paragraph (1), the research plan shall be prepared 3 in the form of a requested research opportunity to 4 be submitted to the process established under this 5 section for the consideration of proposed research 6 within the capacity allocated to the International 7 Space Station national laboratory. A proposal for 8 such a research plan may include the establishment 9 of partnerships with non-Administration institutions 10 eligible to propose research to be conducted within 11 the International Space Station national laboratory 12 capacity. Until at least September 30, 2030, the of-13 ficial or employee designated under subsection (b) 14 may grant an exception to this requirement in the 15 case of a proposed experiment considered essential 16 for purposes of preparing for exploration beyond 17 low-Earth orbit, as determined by joint agreement 18 between the organization with which the Adminis-19 trator enters into a cooperative agreement under 20 subsection (a) and the official or employee des-21 ignated under subsection (b). 22 "(3) Research priorities and enhanced 23 CAPACITY.—The organization with which the Admin-24 istrator enters into the cooperative agreement shall 25 consider recommendations of the National Acad-

1	emies Decadal Survey on Biological and Physical
2	Sciences in Space in establishing research priorities
3	and in developing proposed enhancements of re-
4	search capacity and opportunities for the Inter-
5	national Space Station national laboratory.
6	"(4) Responsibility for research pay-
7	LOAD.—The Administration shall retain its roles and
8	responsibilities in providing research payload phys-
9	ical, analytical, and operations integration during
10	pre-flight, post-flight, transportation, and orbital
11	phases essential to ensure safe and effective flight
12	readiness and vehicle integration of research activi-
13	ties approved and prioritized by the organization
14	with which the Administrator enters into the cooper-
15	ative agreement and the official or employee des-
16	ignated under subsection (b).
17	"§ 70912. Primary objectives of International Space
18	Station program
19	"The primary objectives of the International Space
20	Station program shall be—
21	"(1) to achieve the long term goal and objec-
22	tives under section 71512 of this title; and
23	"(2) to pursue a research program that ad-
24	vances knowledge and provides other benefits to the
25	Nation.".

- 1 (x) REVISION OF SECTION 71102.—Section 71102(1)
- 2 of title 51, United States Code, is amended by striking
- 3 "attaching a tracking device," and inserting "attaching a
- 4 tracking device to,".
- 5 (y) ENACTMENT OF CHAPTER 715.—Title 51, United
- 6 States Code, is amended as follows:
- 7 (1) CONTENT.—Title 51, United States Code,
- 8 is amended by adding after chapter 713 the fol-
- 9 lowing:

10 "Chapter 715—HUMAN SPACE

11 FLIGHT AND EXPLORATION

"SUBCHAPTER I—GENERAL PROVISIONS

"SUBCHAPTER II—POLICY, GOALS, AND OBJECTIVES

- "71511. Human space flight policy.
- "71512. Goals and objectives.

"SUBCHAPTER III—EXPANSION OF HUMAN SPACE FLIGHT BEYOND THE INTERNATIONAL SPACE STA-TION AND LOW-EARTH ORBIT

- "71521. Space Launch System as follow-on launch vehicle to the space shuttle.
- "71522. Multipurpose crew vehicle.
- "71523. Utilization of existing workforce and assets in development of Space Launch System and multipurpose crew vehicle.
- "71524. Launch support and infrastructure modernization program.
- "71525. Development of technologies and in-space capabilities for beyond near-Earth space missions.

"SUBCHAPTER IV—SPACE SCIENCE

- "71541. Technology development.
- "71542. Suborbital research activities.
- "71543. In-space servicing.
- "71544. Ongoing restoration of radioisotope thermoelectric generator material production.
- "71545. Coordinated approach for robotic missions.
- "71546. Near-Earth object survey and policy with respect to threats posed."

[&]quot;Sec.

[&]quot;71501. Definitions.

1	"Subchapter I—GENERAL
2	PROVISIONS
3	"§ 71501. Definitions
4	"In this chapter:
5	"(1) CIS-LUNAR SPACE.—The term 'cis-lunar
6	space' means the region of space from the Earth out
7	to and including the region around the surface of
8	the Moon.
9	"(2) DEEP SPACE.—The term 'deep space'
10	means the region of space beyond cis-lunar space.
11	"(3) Near-earth space.—The term 'near-
12	Earth space' means the region of space that includes
13	low-Earth orbit and extends out to and includes geo-
14	synchronous orbit.
15	"(4) SPACE LAUNCH SYSTEM.—The term
16	'Space Launch System' means the follow-on Govern-
17	ment-owned civil launch system developed, managed,
18	and operated by the Administration to serve as a
19	key component to expand human presence beyond
20	low-Earth orbit.
21	"Subchapter II—POLICY, GOALS,
22	AND OBJECTIVES
23	"§ 71511. Human space flight policy
24	"(a) USE OF NON-UNITED STATES HUMAN SPACE
25	FLIGHT TRANSPORTATION SERVICES.—

1	"(1) Definitions.—In this subsection:
2	"(A) COMMERCIAL PROVIDER.—The term
3	'commercial provider' means any person pro-
4	viding human space flight transportation serv-
5	ices, primary control of which is held by persons
6	other than the Federal Government, a State or
7	local government, or a foreign government.
8	"(B) QUALIFIED FOREIGN ENTITY.—The
9	term 'qualified foreign entity' means a foreign
10	entity that is in compliance with all applicable
11	safety standards and is not prohibited from
12	providing space transportation services under
13	other law.
14	"(C) United States Commercial Pro-
15	VIDER.—The term 'United States commercial
16	provider' means a commercial provider, orga-
17	nized under the laws of the United States or of
18	a State, that is more than 50 percent owned by
19	United States nationals.
20	"(2) In General.—The Federal Government
21	may not acquire human space flight transportation
22	services from a foreign entity unless—
23	"(A) no United States Government-oper-
24	ated human space flight capability is available;

1	"(B) no United States commercial provider
2	is available; and
3	"(C) it is a qualified foreign entity.
4	"(3) Arrangements with foreign enti-
5	TIES.—Nothing in this subsection shall prevent the
6	Administrator from negotiating or entering into
7	human space flight transportation arrangements
8	with foreign entities to ensure safety of flight and
9	continued International Space Station operations.
10	"(b) United States Human Space Flight Capa-
11	BILITIES.—Congress reaffirms the policy stated in section
12	70501(a) of this title that the United States shall main-
13	tain an uninterrupted capability for human space flight
14	and operations in low-Earth orbit, and beyond, as an es-
15	sential instrument of national security and of the capacity
16	to ensure continued United States participation and lead-
17	ership in the exploration and utilization of space.
18	"§ 71512. Goals and objectives
19	"(a) Long-Term Goals.—The long-term goals of
20	the human space flight and exploration efforts of the Ad-
21	ministration shall be—
22	"(1) to expand permanent human presence be-
23	yond low-Earth orbit and to do so, where practical,
24	in a manner involving international, academic, and
25	industry partners;

1	"(2) crewed missions and progress toward
2	achieving the goal in paragraph (1) to enable the po-
3	tential for subsequent human exploration and the ex-
4	tension of human presence throughout the solar sys-
5	tem; and
6	"(3) to enable a capability to extend human
7	presence, including potential human habitation on
8	another celestial body and a thriving space economy
9	in the 21st century.
10	"(b) Key Objectives.—The key objectives of the
11	United States for human expansion into space shall be—
12	"(1) to sustain the capability for long-duration
13	presence in low-Earth orbit, initially through con-
14	tinuation of the International Space Station and full
15	utilization of the United States segment of the
16	International Space Station as a national laboratory,
17	and through assisting and enabling an expanded
18	commercial presence in, and access to, low-Earth
19	orbit, as elements of a low-Earth orbit infrastruc-
20	ture;
21	"(2) to determine whether humans can live for
22	extended periods in space with decreasing reliance
23	on Earth, starting with utilization of low-Earth orbit
24	infrastructure, to—

1	"(A) identify potential roles that space re-
2	sources such as energy and materials can play;
3	"(B) meet national and global needs and
4	challenges such as potential cataclysmic threats;
5	and
6	"(C) explore the viability of and lay the
7	foundation for sustainable economic activities in
8	space;
9	"(3) to maximize the role that human explo-
10	ration of space can play in—
11	"(A) advancing overall knowledge of the
12	universe;
13	"(B) supporting United States national
14	and economic security and the United States
15	global competitive posture; and
16	"(C) inspiring young people in their edu-
17	cational pursuits;
18	"(4) to build on the cooperative and mutually
19	beneficial framework established by the International
20	Space Station partnership agreements and experi-
21	ence in developing and undertaking programs and
22	meeting objectives designed to realize the goal of
23	human space flight set forth in subsection (a); and
24	"(5) to achieve human exploration of Mars and
25	beyond through the prioritization of those tech-

1	nologies and capabilities best suited for such a mis-
2	sion in accordance with the stepping stone approach
3	to exploration under section 70504 of this title.
4	"Subchapter III—EXPANSION OF
5	HUMAN SPACE FLIGHT BE-
6	YOND THE INTERNATIONAL
7	SPACE STATION AND LOW-
8	EARTH ORBIT
9	"§ 71521. Space Launch System as follow-on launch
10	vehicle to the space shuttle
11	"(a) Policy.—It is the policy of the United States
12	that the Administration develop a Space Launch System
13	as a follow-on to the space shuttle that can access cis-
14	lunar space and the regions of space beyond low-Earth
15	orbit in order to enable the United States to participate
16	in global efforts to access and develop that increasingly
17	strategic region.
18	"(b) Initiation of Development.—
19	"(1) In general.—As soon as practicable
20	after October 11, 2010, the Administrator shall ini-
21	tiate development of a Space Launch System meet-
22	ing the minimum capability requirements specified
23	in subsection (c).
24	"(2) Modification of current con-
25	TRACTS —In order to limit the Administration's ter-

1	mination liability costs and support critical capabili-
2	ties, the Administrator shall, to the extent prac-
3	ticable, extend or modify existing (as of October 11,
4	2010) vehicle development and associated contracts
5	necessary to meet the requirement in paragraph (1),
6	including contracts for ground testing of solid rocket
7	motors, if necessary, to ensure their availability for
8	development of the Space Launch System.
9	"(c) Minimum Capability Requirements.—
10	"(1) IN GENERAL.—The Space Launch System
11	developed pursuant to subsection (b) shall be de-
12	signed to have, at a minimum, the following:
13	"(A) The initial capability of the core ele-
14	ments, without an upper stage, of lifting pay-
15	loads weighing between 70 and 100 tons into
16	low-Earth orbit in preparation for transit for
17	missions beyond low-Earth orbit.
18	"(B) The capability to carry an integrated
19	upper Earth departure stage bringing the total
20	lift capability of the Space Launch System to
21	130 tons or more.
22	"(C) The capability to lift the multipur-
23	pose crew vehicle.
24	"(D) The capability to serve as a backup
25	system for supplying and supporting Inter-

1	national Space Station cargo delivery require-
2	ments or crew delivery requirements not other-
3	wise met by available commercial or partner-
4	supplied vehicles.
5	"(E) The capacity for efficient and timely
6	evolution, including the incorporation of new
7	technologies, competition of sub-elements, and
8	commercial operations.
9	"(2) Flexibility.—The Space Launch System
10	shall be designed from inception as a fully integrated
11	vehicle capable of carrying a total payload of 130
12	tons or more into low-Earth orbit in preparation for
13	transit for missions beyond low-Earth orbit. The
14	Space Launch System shall, to the extent prac-
15	ticable, incorporate capabilities for evolutionary
16	growth to carry heavier payloads. Developmental
17	work and testing of the core elements and the upper
18	stage should proceed in parallel subject to appropria-
19	tions. Priority should be placed on the core elements
20	with the goal for operational capability for the core
21	elements not later than December 31, 2016.
22	"(3) Transition needs.—The Administrator
23	shall ensure that critical skills and capabilities are
24	retained, modified, and developed, as appropriate, in
25	areas relating to solid and liquid engines, large di-

1	ameter fuel tanks, rocket propulsion, and other
2	ground test capabilities for an effective transition to
3	the follow-on Space Launch System.
4	"§ 71522. Multipurpose crew vehicle
5	"(a) Initiation of Development.—
6	"(1) In General.—The Administrator shall
7	continue the development of a multipurpose crew ve-
8	hicle to be available as soon as practicable, and no
9	later than for use with the Space Launch System.
10	The vehicle shall continue to advance development of
11	the human safety features, designs, and systems in
12	the Orion project.
13	"(2) Goal for operational capability.—It
14	shall be the goal to achieve full operational capa-
15	bility for the transportation vehicle developed pursu-
16	ant to this subsection by not later than December
17	31, 2016. For purposes of meeting such goal, the
18	Administrator may undertake a test of the transpor-
19	tation vehicle at the International Space Station be-
20	fore that date.
21	"(b) Minimum Capability Requirements.—The
22	multipurpose crew vehicle developed pursuant to sub-
23	section (a) shall be designed to have, at a minimum, the
24	following:

1	"(1) The capability to serve as the primary
2	crew vehicle for missions beyond low-Earth orbit.
3	"(2) The capability to conduct regular in-space
4	operations, such as rendezvous, docking, and extra-
5	vehicular activities, in conjunction with payloads de-
6	livered by the Space Launch System developed pur-
7	suant to section 71521 of this title, or other vehicles,
8	in preparation for missions beyond low-Earth orbit
9	or servicing of assets described in section 71543 of
10	this title, or other assets in cis-lunar space.
11	"(3) The capability to provide an alternative
12	means of delivery of crew and cargo to the Inter-
13	national Space Station, in the event other vehicles,
14	whether commercial vehicles or partner-supplied ve-
15	hicles, are unable to perform that function.
16	"(4) The capacity for efficient and timely evo-
17	lution, including the incorporation of new tech-
18	nologies, competition of sub-elements, and commer-
19	cial operations.
20	"§ 71523. Utilization of existing workforce and assets
21	in development of Space Launch System
22	and multipurpose crew vehicle
23	"(a) In General.—In developing the Space Launch
24	System pursuant to section 71521 of this title and the
25	multipurpose crew vehicle pursuant to section 71522 of

1	this title, the Administrator shall, to the extent prac-
2	ticable, utilize—
3	"(1) existing (as of October 11, 2010) con-
4	tracts, investments, workforce, industrial base, and
5	capabilities from the space shuttle and Orion and
6	Ares 1 projects, including—
7	"(A) spacesuit development activities for
8	application to, and coordinated development of
9	a multipurpose crew vehicle suit and associated
10	life-support requirements with potential devel-
11	opment of standard Administration-certified
12	suit and life support systems for use in alter-
13	native commercially developed crew transpor-
14	tation systems; and
15	"(B) space shuttle-derived components and
16	Ares 1 components that use existing (as of Oc-
17	tober 11, 2010) United States propulsion sys-
18	tems, including liquid fuel engines, externa
19	tank or tank-related capability, and solid rocket
20	motor engines; and
21	"(2) associated testing facilities in existence or
22	under construction as of October 11, 2010.
23	"(b) DISCHARGE OF REQUIREMENTS.—In meeting
24	the requirements of subsection (a), the Administrator—

1	"(1) shall, to the extent practicable, utilize
2	ground-based manufacturing capability, ground test-
3	ing activities, launch and operations infrastructure,
4	and workforce expertise;
5	"(2) shall, to the extent practicable, minimize
6	the modification and development of ground infra-
7	structure and maximize the utilization of existing (as
8	of October 11, 2010) software, vehicle, and mission
9	operations processes;
10	"(3) shall complete construction and activation
11	of the A–3 test stand with a completion goal of Sep-
12	tember 30, 2013;
13	"(4) may procure, develop, and flight test appli-
14	cable components; and
15	"(5) shall take appropriate actions to ensure
16	timely and cost-effective development of the Space
17	Launch System and the multipurpose crew vehicle,
18	including the use of a procurement approach that in-
19	corporates adequate and effective oversight, the fa-
20	cilitation of contractor efficiencies, and the stream-
21	lining of contract and procurement requirements.
22	"(c) Continuation of Contractor Support.—
23	The Administrator may not terminate any contract that
24	provides the system transitions necessary for shuttle-de-
25	rived hardware to be used on the Space Launch System

1	described in section 71521 of this title or the multipurpose
2	crew vehicle described in section 71522 of this title.
3	"§ 71524. Launch support and infrastructure mod-
4	ernization program
5	"(a) In General.—The Administrator shall carry
6	out a program the primary purpose of which is to prepare
7	infrastructure at the Kennedy Space Center that is needed
8	to enable processing and launch of the Space Launch Sys-
9	tem. Vehicle interfaces and other ground processing and
10	payload integration areas should be simplified to minimize
11	overall costs, enhance safety, and complement the purpose
12	of this section.
13	"(b) Elements.—The program required by this sec-
14	tion shall include—
15	"(1) investments to improve civil and national
16	security operations at the Kennedy Space Center, to
17	enhance the overall capabilities of the Center, and to
18	reduce the long-term cost of operations and mainte-
19	nance;
20	"(2) measures to provide multi-vehicle support
21	improvements in payload processing, and partnering
22	at the Kennedy Space Center; and
23	"(3) other measures that the Administrator
24	considers appropriate, including investments to im-
25	prove launch infrastructure at Administration flight

1	facilities scheduled to launch cargo to the Inter-
2	national Space Station under the program to develop
3	commercial cargo transportation capabilities.
4	"§ 71525. Development of technologies and in-space
5	capabilities for beyond near-Earth space
6	missions
7	"(a) Development Authorized.—The Adminis-
8	trator may initiate activities to develop the following:
9	"(1) Technologies identified as necessary ele-
10	ments of missions beyond low-Earth orbit.
11	"(2) In-space capabilities such as refueling and
12	storage technology, orbital transfer stages, innova-
13	tive in-space propulsion technology, communications,
14	and data management that facilitate a broad range
15	of users (including military and commercial).
16	"(3) Applications defining the architecture and
17	design of missions beyond low-Earth orbit.
18	"(4) Spacesuit development and associated life
19	support technology.
20	"(5) Flagship missions.
21	"(b) Investments.—In developing technologies and
22	capabilities under subsection (a), the Administrator may
23	make investments in—
24	"(1) space technologies such as advanced pro-
25	pulsion, propellant depots, in situ resource utiliza-

1	tion, and robotic payloads or capabilities that enable
2	human missions beyond low-Earth orbit ultimately
3	leading to Mars;
4	"(2) a space-based transfer vehicle including
5	technologies described in paragraph (1) with an abil-
6	ity to conduct space-based operations that provide
7	capabilities—
8	"(A) to integrate with the Space Launch
9	System and other space-based systems;
10	"(B) to provide opportunities for in-space
11	servicing of and delivery to multiple space-based
12	platforms; and
13	"(C) to facilitate international efforts to
14	expand human presence to deep space destina-
15	tions;
16	"(3) advanced life support technologies and ca-
17	pabilities;
18	"(4) technologies and capabilities relating to in-
19	space power, propulsion, and energy systems;
20	"(5) technologies and capabilities relating to in-
21	space propellant transfer and storage;
22	"(6) technologies and capabilities relating to in
23	situ resource utilization; and

1	"(7) expanded research to understand the
2	greatest biological impediments to human deep space
3	missions, especially the radiation challenge.
4	"(c) Utilization of International Space Sta-
5	TION AS TESTBED.—The Administrator may utilize the
6	International Space Station as a testbed for any tech-
7	nology or capability developed under subsection (a) in a
8	manner consistent with sections 70908 through 70911 of
9	this title.
10	"(d) Coordination.—The Administrator shall co-
11	ordinate development of technologies and capabilities
12	under this section through an overall Administration tech-
13	nology approach consistent with the plan required by sec-
14	tion 905 of the National Aeronautics and Space Adminis-
15	tration Authorization Act of 2010 (Public Law 111–267,
16	124 Stat. 2836), which outlines how the Administration's
17	space technology program will meet the goal described in
18	section 40903 of this title, including an explanation of how
19	the plan will link to other mission-directorate technology
20	efforts.
21	"Subchapter IV—SPACE SCIENCE
22	"§ 71541. Technology development
23	"The Administrator shall ensure that the Science
24	Mission Directorate maintains a long-term technology de-
25	velopment program for space and Earth science. That ef-

fort should be coordinated with an overall Administration technology investment approach consistent with the plan required by section 905 of the National Aeronautics and 3 4 Space Administration Authorization Act of 2010 (Public Law 111–267, 124 Stat. 2836), which outlines how the 5 Administration's space technology program will meet the 6 7 goal described in section 40903 of this title, including an 8 explanation of how the plan will link to other mission-di-9 rectorate technology efforts. "§ 71542. Suborbital research activities 10 11 "(a) Management.—The Administrator shall des-12 ignate an officer or employee of the Science Mission Directorate to act as the responsible official for all Suborbital 13 14 Research in the Science Mission Directorate. The designee 15 shall be responsible for— "(1) the development of short- and long-term 16 17 strategic plans for maintaining, renewing, and ex-18 tending suborbital facilities and capabilities; 19 "(2) monitoring progress toward goals in the 20 plans; and 21 "(3) integration of suborbital activities and 22 workforce development within the Administration, 23 thereby ensuring the long-term recognition of their 24 combined value to the Directorate, to the Adminis-25 tration, and to the Nation.

1 "(b) Establishment of Suborbital Research Program.—The Administrator shall establish a Suborbital Research Program within the Science Mission Di-3 4 rectorate that shall include the use of sounding rockets, aircraft, high altitude balloons, suborbital reusable launch 5 vehicles, and commercial launch vehicles to advance 6 science and train the next generation of scientists and en-8 gineers in systems engineering and systems integration, which are vital to maintaining critical skills in the aero-10 space workforce. The program shall integrate existing (as of October 11, 2010) suborbital research programs with 12 orbital missions at the discretion of the designated officer or employee and shall emphasize the participation of undergraduate and graduate students and post-doctoral re-14 15 searchers when formulating announcements of oppor-16 tunity. 17 "(c) Annual Report.—The Administrator shall re-18 port annually to the Committee on Commerce, Science, 19 and Transportation of the Senate and the Committee on 20 Science, Space, and Technology of the House of Rep-21 resentatives on the number and type of suborbital missions 22 conducted in each fiscal year under this section and the 23 number of undergraduate and graduate students that participated in the missions.

1 "§ 71543. In-space servicing

- 2 "The Administrator shall continue to take all nec-3 essary steps to ensure that provisions are made for robotic
- 4 or human in-space servicing and repair of all future ob-
- 5 servatory-class scientific spacecraft intended to be de-
- 6 ployed in Earth-orbit or at a Lagrangian point to the ex-
- 7 tent practicable and appropriate. The Administrator
- 8 should ensure that Administration investments and future
- 9 capabilities for space technology, robotics, and human
- 10 space flight take the ability to service and repair observ-
- 11 atory-class scientific spacecraft into account, as appro-
- 12 priate, and incorporate those capabilities into design and
- 13 operational plans.

14 "§ 71544. Ongoing restoration of radioisotope thermo-

15 electric generator material production

- 16 "The Administrator shall, in coordination with the
- 17 Secretary of Energy, pursue a joint approach beginning
- 18 in fiscal year 2011 toward restarting and sustaining the
- 19 domestic production of radioisotope thermoelectric gener-
- 20 ator material for deep space and other science and explo-
- 21 ration missions. Funds authorized by the National Aero-
- 22 nautics and Space Administration Authorization Act of
- 23 2010 (Public Law 111-267, 124 Stat. 2805) for the Ad-
- 24 ministration shall be made available under a reimbursable
- 25 agreement with the Department of Energy for the purpose
- 26 of reestablishing facilities to produce fuel required for ra-

- 1 dioisotope thermoelectric generators to enable future mis-
- 2 sions.

3 "§ 71545. Coordinated approach for robotic missions

- 4 "The Administrator shall ensure that the Exploration
- 5 Systems Mission Directorate and the Space Operations
- 6 Mission Directorate coordinate with the Science Mission
- 7 Directorate on an overall approach and plan for inter-
- 8 agency and international collaboration on robotic missions
- 9 that are developed by the Administration or internation-
- 10 ally developed, including lunar, Lagrangian, near-Earth
- 11 orbit, and Mars spacecraft, such as the International
- 12 Lunar Network.

13 "§ 71546. Near-Earth object survey and policy with

- 14 respect to threats posed
- 15 "(a) Policy Reaffirmation.—Congress reaffirms
- 16 the policy set forth in section 20102(g) of this title relat-
- 17 ing to surveying near-Earth asteroids and comets.
- 18 "(b) Implementation.—Consistent with section
- 19 71103 of this title, the Director of the Office of Science
- 20 and Technology Policy shall implement, before September
- 21 30, 2012, a policy for notifying Federal agencies and rel-
- 22 evant emergency response institutions of an impending
- 23 near-Earth object threat if near-term public safety is at
- 24 risk, and assign a Federal agency or agencies to be respon-

sible for protecting the United States and working with 2 the international community on such threats.". 3 (2) Chapter heading typeface.—The chap-4 ter heading of chapter 715 of title 51, United States 5 Code, as added by paragraph (1), is amended so 6 that the typeface of that chapter heading conforms to the typeface of other chapter headings in title 51, 7 8 United States Code. 9 (3) Chapter table of contents type-10 FACE.—The chapter table of contents of chapter 715 11 of title 51, United States Code, as added by para-12 graph (1), is amended so that the typeface of the 13 subchapter headings and the typeface of the sub-14 chapter items conform to those appearing in other 15 chapter table of contents of title 51. 16 (4) Subchapter Heading Typeface.—The 17 subchapter headings for subchapters I through IV of 18 chapter 715 of title 51, United States Code, as 19 added by paragraph (1), are amended so that the 20 typeface of those subchapter headings conforms to 21 the typeface of subchapter headings in other chap-22 ters of title 51, United States Code. 23 (z) ENACTMENT OF CHAPTER 717.—Title 51, United States Code, is amended as follows:

1 (1) Content.—Title 51, United States Code, 2 as amended by subsection (v), is amended by adding after chapter 715 the following: 3 "Chapter 717—ADVANCING 4 **HUMAN SPACE EXPLORATION** 5 "SUBCHAPTER I—GENERAL PROVISIONS "Sec. "71701. Definitions. "SUBCHAPTER II-ADVANCING HUMAN DEEP SPACE **EXPLORATION** "Part A-Assuring Core Capabilities for Exploration "71711. Space launch system, Orion, and exploration ground systems. "Part B—Journey to Mars "71721. Human exploration roadmap. "SUBCHAPTER III—ADVANCING SPACE SCIENCE "71731. Policy on maintaining balanced space science portfolio. "71732. Mission priorities for planetary science. "71733. Extrasolar planet exploration strategy. "71734. Astrobiology strategy. "71735. Collaboration. "SUBCHAPTER IV—SPACE TECHNOLOGY "71741. Space technology infusion. "71742. Space technology program. "SUBCHAPTER V—MAXIMIZING EFFICIENCY "Part A-Administration Information Technology and Cybersecurity "71751. Information technology governance. "71752. Information technology strategic plan. "71753. Information security plan for cybersecurity. "Part B-Collaboration Among Mission Directorates and Other Matters "71761. Collaboration among mission directorates. "71762. Administration launch capabilities collaboration. "71763. Education and outreach. "71764. Leveraging commercial satellite servicing capabilities across mission directorates.

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"71765. Flight opportunities. "71766. Space Act Agreements.

"Subchapter I—GENERAL 1 **PROVISIONS** 2 3 "§ 71701. Definitions 4 "In this chapter: 5 "(1) Appropriate COMMITTEES \mathbf{OF} CON-6 GRESS.—The term 'appropriate committees of Con-7 gress' means— 8 "(A) the Committee Commerce, on 9 Science, and Transportation of the Senate; and "(B) the Committee on Science, Space, 10 11 and Technology of the House of Representa-12 tives. 13 "(2) CIS-LUNAR SPACE.—The term 'cis-lunar 14 space' means the region of space from the Earth out 15 to and including the region around the surface of 16 the Moon. 17 "(3) DEEP SPACE.—The term 'deep space' 18 means the region of space beyond low-Earth orbit, 19 to include cis-lunar space. "(4) ORION.—The term 'Orion' means the mul-20 21 tipurpose crew vehicle described under section 71522 22 of this title. 23 SPACE SYSTEM.—The LAUNCH 24 'Space Launch System' has the meaning given the 25 term in section 71501 of this title.

1	"Subchapter II—ADVANCING
2	HUMAN DEEP SPACE EXPLO-
3	RATION
4	"Part A—Assuring Core
5	Capabilities for Exploration
6	"§ 71711. Space launch system, Orion, and explo-
7	ration ground systems
8	"(a) Reaffirmation.—Congress reaffirms the pol-
9	icy and minimum capability requirements for the Space
10	Launch System under section 71521 of this title.
11	"(b) Continued Development of Fully Inte-
12	GRATED SPACE LAUNCH SYSTEM.—The Administrator
13	shall continue the development of the fully integrated
14	Space Launch System, including an upper stage needed
15	to go beyond low-Earth orbit, in order to safely enable
16	human space exploration of the Moon, Mars, and beyond
17	over the course of the next century as required in section
18	71521(c) of this title.
19	"(c) Exploration Missions.—The Administrator
20	shall continue development of—
21	"(1) an uncrewed exploration mission to dem-
22	onstrate the capability of both the Space Launch
23	System and Orion as an integrated system by 2018;
24	"(2) subject to applicable human rating proc-
25	esses and requirements, a crewed exploration mis-

I	sion to demonstrate the Space Launch System, in-
2	cluding the Core Stage and Exploration Upper
3	Stages, by 2021;
4	"(3) subsequent missions beginning with
5	Artemis III at operational flight rate sufficient to
6	maintain safety and operational readiness using the
7	Space Launch System and Orion to extend into cis-
8	lunar space and eventually to Mars; and
9	"(4) a deep space habitat as a key element in
10	a deep space exploration architecture along with the
11	Space Launch System and Orion.
12	"(d) Other Uses.—The Administrator shall assess
13	the utility of the Space Launch System for use by the
14	science community and for other Federal Government
15	launch needs, including consideration of overall cost and
16	schedule savings from reduced transit times and increased
17	science returns enabled by the unique capabilities of the
18	Space Launch System.
19	"Part B—Journey to Mars
20	"§ 71721. Human exploration roadmap
21	"(a) In General.—The Administrator shall develop
22	a human exploration roadmap, including a critical decision
23	plan, to expand human presence beyond low-Earth orbit
24	to the surface of Mars and beyond, considering potential

1	interim destinations such as cis-lunar space and the moons
2	of Mars.
3	"(b) Scope.—The human exploration roadmap shall
4	include—
5	"(1) an integrated set of exploration, science,
6	and other goals and objectives of a United States
7	human space exploration program to achieve the
8	long-term goal of human missions near or on the
9	surface of Mars in the 2030s;
10	"(2) opportunities for international, academic,
11	and industry partnerships for exploration-related
12	systems, services, research, and technology if those
13	opportunities provide cost-savings, accelerate pro-
14	gram schedules, or otherwise benefit the goals and
15	objectives developed under paragraph (1);
16	"(3) sets and sequences of precursor missions
17	in cis-lunar space and other missions or activities
18	necessary—
19	"(A) to demonstrate the proficiency of the
20	capabilities and technologies identified under
21	paragraph (4); and
22	"(B) to meet the goals and objectives de-
23	veloped under paragraph (1), including antici-
24	pated timelines and missions for the Space
25	Launch System and Orion;

1	"(4) an identification of the specific capabilities
2	and technologies, including the Space Launch Sys-
3	tem, Orion, a deep space habitat, and other capabili-
4	ties, that facilitate the goals and objectives developed
5	under paragraph (1);
6	"(5) a description of how cis-lunar elements,
7	objectives, and activities advance the human explo-
8	ration of Mars;
9	"(6) an assessment of potential human health
10	and other risks, including radiation exposure;
11	"(7) mitigation plans, whenever possible, to ad-
12	dress the risks identified in paragraph (6);
13	"(8) a description of those technologies already
14	under development across the Federal Government
15	or by other entities that facilitate the goals and ob-
16	jectives developed under paragraph (1);
17	"(9) a specific process for the evolution of the
18	capabilities of the fully integrated Orion with the
19	Space Launch System and a description of how
20	these systems facilitate the goals and objectives de-
21	veloped under paragraph (1) and demonstrate the
22	capabilities and technologies described in paragraph
23	(4);
24	"(10) a description of the capabilities and tech-
25	nologies that need to be demonstrated or research

1	data that could be gained through the utilization of
2	the International Space Station and the status of
3	the development of such capabilities and tech-
4	nologies;
5	"(11) a framework for international cooperation
6	in the development of all capabilities and tech-
7	nologies identified under this section, including an
8	assessment of the risks posed by relying on inter-
9	national partners for capabilities and technologies on
10	the critical path of development;
11	"(12) a process for partnering with nongovern-
12	mental entities using Space Act Agreements or other
13	acquisition instruments for future human space ex-
14	ploration; and
15	"(13) information on the phasing of planned in-
16	termediate destinations, Mars mission risk areas and
17	potential risk mitigation approaches, technology re-
18	quirements and phasing of required technology de-
19	velopment activities, the management strategy to be
20	followed, related International Space Station activi-
21	ties, planned international collaborative activities,
22	potential commercial contributions, and other activi-
23	ties relevant to the achievement of the goal estab-
24	lished in this section.

1	"(c) Considerations.—In developing the human ex-
2	ploration roadmap, the Administrator shall consider—
3	"(1) using key exploration capabilities, namely
4	the Space Launch System and Orion;
5	"(2) using existing commercially available tech-
6	nologies and capabilities or those technologies and
7	capabilities being developed by industry for commer-
8	cial purposes;
9	"(3) establishing an organizational approach to
10	ensure collaboration and coordination among the Ad-
11	ministration's mission directorates under section
12	71761 of this title, when appropriate, including to
13	collect and return to Earth a sample from the Mar-
14	tian surface;
15	"(4) building upon the initial uncrewed mission,
16	Artemis I, and first crewed mission, Artemis II, of
17	the Space Launch System and Orion to establish a
18	sustainable cadence of missions extending human ex-
19	ploration missions into cis-lunar space, including an-
20	ticipated timelines and milestones;
21	"(5) developing the robotic and precursor mis-
22	sions and activities that will demonstrate, test, and
23	develop key technologies and capabilities essential
24	for achieving human missions to Mars, including
25	long-duration human operations beyond low-Earth

1	orbit, space suits, solar electric propulsion, deep
2	space habitats, environmental control life support
3	systems, Mars lander and ascent vehicle, entry, de-
4	scent, landing, ascent, Mars surface systems, and in-
5	situ resource utilization;
6	"(6) demonstrating and testing 1 or more habi-
7	tat modules in cis-lunar space to prepare for Mars
8	missions;
9	"(7) using public-private, firm fixed-price part-
10	nerships, where practicable;
11	"(8) collaborating with international, academic,
12	and industry partners, when appropriate;
13	"(9) any risks to human health and sensitive
14	onboard technologies, including radiation exposure;
15	"(10) any risks identified through research out-
16	comes under the Administration Human Research
17	Program's Behavioral Health Element; and
18	"(11) the recommendations and ideas of several
19	independently developed reports or concepts that de-
20	scribe potential Mars architectures or concepts and
21	identify Mars as the long-term goal for human space
22	exploration, including the reports described under
23	section 431 of the National Aeronautics and Space
24	Administration Transition Authorization Act of
25	2017 (Public Law 115–10, 131 Stat. 38).

1	"(d) Critical Decision Plan on Human Space
2	EXPLORATION.—As part of the human exploration road-
3	map, the Administrator shall include a critical decision
4	plan—
5	"(1) identifying and defining key decisions
6	guiding human space exploration priorities and plans
7	that need to be made before June 30, 2020, includ-
8	ing decisions that may guide human space explo-
9	ration capability development, precursor missions,
10	long-term missions, and activities;
11	"(2) defining decisions needed to maximize effi-
12	ciencies and resources for reaching the near-, inter-
13	mediate-, and long-term goals and objectives of
14	human space exploration; and
15	"(3) identifying and defining timelines and
16	milestones for a sustainable cadence of missions be-
17	ginning with Artemis III for the Space Launch Sys-
18	tem and Orion to extend human exploration from
19	cis-lunar space to the surface of Mars.
20	"(e) Reports.—
21	"(1) Initial Human exploration road-
22	MAP.—The Administrator shall submit to the appro-
23	priate committees of Congress—

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1	"(A) an initial human exploration road-
2	map, including a critical decision plan, before
3	December 1, 2017; and
4	"(B) an updated human exploration road-
5	map periodically as the Administrator considers
6	necessary but not less than biennially.
7	"(2) Contents.—Each human exploration
8	roadmap under this subsection shall include a de-
9	scription of—
10	"(A) the achievements and goals accom-
11	plished in the process of developing capabilities
12	and technologies described in this section dur-
13	ing the 2-year period prior to the submission of
14	the human exploration roadmap; and
15	"(B) the expected goals and achievements
16	in the following 2-year period.
17	"(3) Submission with Budget.—Each human
18	exploration roadmap under this section shall be in-
19	cluded in the budget for that fiscal year transmitted
20	to Congress under section 1105(a) of title 31.

"Subchapter III—ADVANCING 1 SPACE SCIENCE 2 3 "§ 71731. Policy on maintaining balanced space 4 science portfolio 5 "It is the policy of the United States to ensure, to the extent practicable, a steady cadence of large, medium, and small science missions. 7 8 "§ 71732. Mission priorities for planetary science 9 "(a) IN GENERAL.—In accordance with the priorities 10 established in the most recent Planetary Science Decadal 11 Survey, the Administrator shall ensure, to the greatest ex-12 tent practicable, the completion of a balanced set of Dis-13 covery, New Frontiers, and Flagship missions at the cadence recommended by the most recent Planetary Science Decadal Survey. 15 16 "(b) Mission Priority Adjustments.—Consistent with the set of missions described in subsection (a), and while maintaining the continuity of scientific data and 18 19 steady development of capabilities and technologies, the 20 Administrator may seek, if necessary, adjustments to mission priorities, schedule, and scope in light of changing 22 budget projections. 23 "§ 71733. Extrasolar planet exploration strategy 24 "(a) Strategy.—

1	"(1) IN GENERAL.—The Administrator shall
2	enter into an arrangement with the National Acad-
3	emies to develop a science strategy for the study and
4	exploration of extrasolar planets, including the use
5	of the Transiting Exoplanet Survey Satellite, the
6	James Webb Space Telescope, a potential Wide-
7	Field Infrared Survey Telescope mission, or any
8	other telescope, spacecraft, or instrument, as appro-
9	priate.
10	"(2) Requirements.—The strategy shall—
11	"(A) outline key scientific questions;
12	"(B) identify the most promising research
13	in the field;
14	"(C) indicate the extent to which the mis-
15	sion priorities in existing decadal surveys ad-
16	dress the key extrasolar planet research and ex-
17	ploration goals;
18	"(D) identify opportunities for coordina-
19	tion with international partners, commercial
20	partners, and not-for-profit partners; and
21	"(E) make recommendations regarding the
22	activities under subparagraphs (A) through
23	(D), as appropriate.
24	"(b) USE OF STRATEGY.—The Administrator shall
25	use the strategy—

1	"(1) to inform roadmaps, strategic plans, and
2	other activities of the Administration as they relate
3	to extrasolar planet research and exploration; and
4	"(2) to provide a foundation for future activi-
5	ties and initiatives related to extrasolar planet re-
6	search and exploration.
7	"(c) Report to Congress.—Not later than 18
8	months after March 21, 2017, the National Academies
9	shall submit to the Administrator and to the appropriate
10	committees of Congress a report containing the strategy
11	developed under subsection (a).
12	"§ 71734. Astrobiology strategy
13	"(a) Strategy.—
14	"(1) In General.—The Administrator shall
15	enter into an arrangement with the National Acad-
16	emies to develop a science strategy for astrobiology
17	that would outline key scientific questions, identify
18	the most promising research in the field, and indi-
19	cate the extent to which the mission priorities in ex-
20	isting decadal surveys address the search for life's
21	origin, evolution, distribution, and future in the uni-
22	verse.
23	"(2) Recommendations.—The strategy shall
24	include recommendations for coordination with inter-
25	national partners.

1

"(b) USE OF STRATEGY.—The Administrator shall

2	use the strategy developed under subsection (a) in plan-
3	ning and funding research and other activities and initia-
4	tives in the field of astrobiology.
5	"(c) Report to Congress.—Not later than 18
6	months after March 21, 2017, the National Academies
7	shall submit to the Administrator and to the appropriate
8	committees of Congress a report containing the strategy
9	developed under subsection (a).
10	"§ 71735. Collaboration
11	"The Administration shall continue to develop first-
12	of-a-kind instruments that, once proved, can be
13	transitioned to other agencies for operations. Whenever re-
14	sponsibilities for the development of sensors or for meas-
15	urements are transferred to the Administration from an-
16	other agency, the Administration shall seek, to the extent
17	possible, to be reimbursed for the assumption of such re-
18	sponsibilities.
19	"Subchapter IV—SPACE
20	TECHNOLOGY
21	"§ 71741. Space technology infusion
22	"(a) Policy.—It is the policy of the United States
23	that the Administrator shall develop technologies to sup-
24	port the Administration's core missions, as described in
25	section 2(3) of the National Aeronautics and Space Ad-

- 1 ministration Authorization Act of 2010 (Public Law 111-
- 2 267, 124 Stat. 2807), and support sustained investments
- 3 in early stage innovation, fundamental research, and tech-
- 4 nologies to expand the boundaries of the national aero-
- 5 space enterprise.
- 6 "(b) Propulsion Technologies.—A goal of pro-
- 7 pulsion technologies developed under subsection (a) shall
- 8 be to significantly reduce human travel time to Mars.

9 "§ 71742. Space technology program

- 10 "(a) Space Technology Program Authorized.—
- 11 The Administrator shall conduct a space technology pro-
- 12 gram (referred to in this section as the 'Program') to re-
- 13 search and develop advanced space technologies that could
- 14 deliver innovative solutions across the Administration's
- 15 space exploration and science missions.
- 16 "(b) Considerations.—In conducting the Program,
- 17 the Administrator shall consider—
- 18 "(1) the recommendations of the National
- 19 Academies' review of the Administration's Space
- 20 Technology roadmaps and priorities; and
- 21 "(2) the applicable enabling aspects of the step-
- 22 ping stone approach to exploration under section
- 23 70504 of this title.
- "(c) Requirements.—In conducting the Program,
- 25 the Administrator shall—

1	"(1) to the extent practicable, use a competitive
2	process to select research and development projects;
3	"(2) to the extent practicable and appropriate,
4	use small satellites and the Administration's sub-
5	orbital and ground-based platforms to demonstrate
6	space technology concepts and developments; and
7	"(3) as appropriate, partner with other Federal
8	agencies, universities, private industry, and foreign
9	countries.
10	"(d) Small Business Programs.—The Adminis-
11	trator shall organize and manage the Administration's
12	Small Business Innovation Research Program and Small
13	Business Technology Transfer Program within the Pro-
14	gram.
15	"(e) Nonduplication Certification.—The Ad-
16	ministrator shall submit a budget for each fiscal year, as
17	transmitted to Congress under section 1105(a) of title 31,
18	that avoids duplication of projects, programs, or missions
19	conducted by the Program with other projects, programs,
20	or missions conducted by another office or directorate of
21	the Administration.
22	"(f) Collaboration, Coordination, and Align-
23	MENT.—The Administrator shall—
24	"(1) ensure that the Administration's projects,
25	programs, and activities in support of technology re-

1	search and development of advanced space tech-
2	nologies are fully coordinated and aligned;
3	"(2) ensure that the results of the projects, pro-
4	grams, and activities under paragraph (1) are
5	shared and leveraged within the Administration; and
6	"(3) ensure that the organizational responsi-
7	bility for research and development activities in sup-
8	port of human space exploration not initiated as of
9	March 21, 2017, is established on the basis of a
10	sound rationale.
11	"(g) Annual Report.—The Administrator shall in-
12	clude in the Administration's annual budget request for
13	each fiscal year the rationale for assigning organizational
14	responsibility for, in the year prior to the budget fiscal
15	year, each initiated project, program, and mission focused
16	on research and development of advanced technologies for
17	human space exploration.

1	"Subchapter V—MAXIMIZING
2	EFFICIENCY
3	"Part A-Administration Informa-
4	tion Technology and Cybersecu-
5	rity
6	"§ 71751. Information technology governance
7	"The Administrator shall, in a manner that reflects
8	the unique nature of the Administration's mission and ex-
9	pertise—
10	"(1) ensure the Administration Chief Informa-
11	tion Officer, mission directorates, and centers have
12	appropriate roles in the management, governance,
13	and oversight processes related to information tech-
14	nology operations and investments and information
15	security programs for the protection of Administra-
16	tion systems;
17	"(2) ensure the Administration Chief Informa-
18	tion Officer has the appropriate resources and in-
19	sight to oversee Administration information tech-
20	nology and information security operations and in-
21	vestments;
22	"(3) provide an information technology program
23	management framework to increase the efficiency
24	and effectiveness of information technology invest-

1	ments, including relying on metrics for identifying
2	and reducing potential duplication, waste, and cost;
3	"(4) improve the operational linkage between
4	the Administration Chief Information Officer and
5	each Administration mission directorate, center, and
6	mission support office to ensure both Administration
7	and mission needs are considered in Administration-
8	wide information technology and information secu-
9	rity management and oversight;
10	"(5) review the portfolio of information tech-
11	nology investments and spending, including informa-
12	tion technology-related investments included as part
13	of activities within Administration mission direc-
14	torates that may not be considered information tech-
15	nology, to ensure investments are recognized and re-
16	ported appropriately based on guidance from the Of-
17	fice of Management and Budget;
18	"(6) consider appropriate revisions to the char-
19	ters of information technology boards and councils
20	that inform information technology investment and
21	operation decisions; and
22	"(7) consider whether the Administration Chief
23	Information Officer should have a seat on any
24	boards or councils described in paragraph (6).

1	"§ 71752. Information technology strategic plan
2	"(a) In General.—Subject to subsection (b), the
3	Administrator shall develop an information technology
4	strategic plan to guide Administration information tech-
5	nology management and strategic objectives.
6	"(b) Requirements.—In developing the strategic
7	plan, the Administrator shall ensure that the strategic
8	plan addresses—
9	"(1) the deadline under section 306(a) of title
10	5; and
11	"(2) the requirements under section 3506 of
12	title 44.
13	"(c) Contents.—The strategic plan shall address,
14	in a manner that reflects the unique nature of the Admin-
15	istration's mission and expertise—
16	"(1) near- and long-term goals and objectives
17	for leveraging information technology;
18	"(2) a plan for how the Administration will
19	submit to Congress a list of information technology
20	projects, including completion dates and risk levels
21	in accordance with guidance from the Office of Man-
22	agement and Budget;
23	"(3) an implementation overview for an Admin-
24	istration-wide approach to information technology
25	investments and operations, including reducing bar-
26	riers to cross-center collaboration;

1	"(4) coordination by the Administration Chief
2	Information Officer with centers and mission direc-
3	torates to ensure that information technology poli-
4	cies are effectively and efficiently implemented
5	across the Administration;
6	"(5) a plan to increase the efficiency and effec-
7	tiveness of information technology investments, in-
8	cluding a description of how unnecessarily duplica-
9	tive, wasteful, legacy, or outdated information tech-
10	nology across the Administration will be identified
11	and eliminated, and a schedule for the identification
12	and elimination of such information technology;
13	"(6) a plan for improving the information secu-
14	rity of Administration information and Administra-
15	tion information systems, including improving secu-
16	rity control assessments and role-based security
17	training of employees; and
18	"(7) submission by the Administration to Con-
19	gress of information regarding high risk projects and
20	cybersecurity risks.
21	"(d) Congressional Oversight.—The Adminis-
22	trator shall submit to the appropriate committees of Con-
23	gress the strategic plan under subsection (a) and any up-
24	dates to the strategic plan.

1	"§ 71753. Information security plan for cybersecurity
2	"(a) In General.—Not later than 1 year after
3	March 21, 2017, the Administrator shall implement the
4	information security plan developed under subsection (b)
5	and take such further actions as the Administrator con-
6	siders necessary to improve the information security sys-
7	tem in accordance with this section.
8	"(b) Information Security Plan.—Subject to
9	subsections (c) and (d), the Administrator shall develop
10	an Administration-wide information security plan to en-
11	hance information security for Administration information
12	and information infrastructure.
13	"(c) Requirements.—In developing the plan under
14	subsection (b), the Administrator shall ensure that the
15	plan—
16	"(1) reflects the unique nature of the Adminis-
17	tration's mission and expertise;
18	"(2) is informed by policies, standards, guide-
19	lines, and directives on information security required
20	for Federal agencies;
21	"(3) is consistent with the standards and guide-
22	lines under section 11331 of title 40; and
23	"(4) meets applicable National Institute of
24	Standards and Technology information security
25	standards and guidelines.
26	"(d) Contents.—The plan shall address—

1	"(1) an overview of the requirements of the in-
2	formation security system;
3	"(2) an Administration-wide risk management
4	framework for information security;
5	"(3) a description of the information security
6	system management controls and common controls
7	that are necessary to ensure compliance with infor-
8	mation security-related requirements;
9	"(4) an identification and assignment of roles,
10	responsibilities, and management commitment for
11	information security at the Administration;
12	"(5) coordination among organizational entities,
13	including between each center, facility, mission di-
14	rectorate, and mission support office, and among
15	Administration entities responsible for different as-
16	pects of information security;
17	"(6) the need to protect the information secu-
18	rity of mission-critical systems and activities and
19	high-impact and moderate-impact information sys-
20	tems; and
21	"(7) a schedule of frequent reviews and up-
22	dates, as necessary, of the plan.

1	"Part B—Collaboration Among Mis-
2	sion Directorates and Other
3	Matters
4	"§ 71761. Collaboration among mission directorates
5	"The Administrator shall encourage an interdiscipli-
6	nary approach among all Administration mission direc-
7	torates and divisions, whenever appropriate, for projects
8	or missions—
9	"(1) to improve coordination, and encourage
10	collaboration and early planning on scope;
11	"(2) to determine areas of overlap or alignment;
12	"(3) to find ways to leverage across divisional
13	perspectives to maximize outcomes; and
14	"(4) to be more efficient with resources and
15	funds.
16	"§ 71762. Administration launch capabilities collabo-
17	ration
18	"The Administrator shall pursue a strategy for acqui-
19	sition of crewed transportation services and non-crewed
20	launch services that continues to enhance communication,
21	collaboration, and coordination between the Launch Serv-
22	ices Program and the Commercial Crew Program.
23	"§ 71763. Education and outreach
24	"The Administrator shall continue engagement with
25	the public and education opportunities for students via all

1	the Administration's mission directorates to the maximum
2	extent practicable.
3	"§ 71764. Leveraging commercial satellite servicing
4	capabilities across mission directorates
5	"The Administrator shall—
6	"(1) identify orbital assets in both the Science
7	Mission Directorate and the Human Exploration
8	and Operations Mission Directorate that could ben-
9	efit from satellite servicing-related technologies; and
10	"(2) work across all Administration mission di-
11	rectorates to evaluate opportunities for the private
12	sector to perform such services or advance technical
13	capabilities by leveraging the technologies and tech-
14	niques developed by Administration programs and
15	other industry programs.
16	"§ 71765. Flight opportunities
17	"(a) Development of Payloads.—
18	"(1) In general.—In order to conduct nec-
19	essary research, the Administrator shall continue
20	and, as the Administrator considers appropriate, ex-
21	pand the development of technology payloads for—
22	"(A) scientific research; and
23	"(B) investigating new or improved capa-
24	bilities.

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1	"(2) Funds.—For the purpose of carrying out
2	paragraph (1), the Administrator shall make funds
3	available for—
4	"(A) flight testing;
5	"(B) payload development; and
6	"(C) hardware related to subparagraphs
7	(A) and (B).
8	"(b) Reaffirmation of Policy.—Congress reaf-
9	firms that the Administrator should provide flight oppor-
10	tunities for payloads to microgravity environments and
11	suborbital altitudes as authorized by section 40905 of this
12	title.
13	"§ 71766. Space Act Agreements
13 14	"\$ 71766. Space Act Agreements "(a) Funded Space Act Agreements.—To the ex-
14	"(a) Funded Space Act Agreements.—To the ex-
14 15	"(a) Funded Space Act Agreements.—To the extent appropriate, the Administrator shall seek to maximize the value of contributions provided by other parties under
14 15 16 17	"(a) Funded Space Act Agreements.—To the extent appropriate, the Administrator shall seek to maximize the value of contributions provided by other parties under
14 15 16 17	"(a) Funded Space Act Agreements.—To the extent appropriate, the Administrator shall seek to maximize the value of contributions provided by other parties under a funded Space Act Agreement in order to advance the
14 15 16 17	"(a) Funded Space Act Agreements.—To the extent appropriate, the Administrator shall seek to maximize the value of contributions provided by other parties under a funded Space Act Agreement in order to advance the Administration's mission.
114 115 116 117 118	"(a) Funded Space Act Agreements.—To the extent appropriate, the Administrator shall seek to maximize the value of contributions provided by other parties under a funded Space Act Agreement in order to advance the Administration's mission. "(b) Non-exclusivity.—
14 15 16 17 18 19 20	"(a) Funded Space Act Agreements.—To the extent appropriate, the Administrator shall seek to maximize the value of contributions provided by other parties under a funded Space Act Agreement in order to advance the Administration's mission. "(b) Non-exclusivity.— "(1) In general.—The Administrator shall, to
114 115 116 117 118 119 220 221	"(a) Funded Space Act Agreements.—To the extent appropriate, the Administrator shall seek to maximize the value of contributions provided by other parties under a funded Space Act Agreement in order to advance the Administration's mission. "(b) Non-exclusivity.— "(1) In general.—The Administrator shall, to the greatest extent practicable, issue each Space Act

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1	"(B) in a manner that ensures all non-gov-
2	ernment parties have equal access to Adminis-
3	tration resources; and
4	"(C) exercising reasonable care not to re-
5	veal unique or proprietary information.
6	"(2) Exclusivity.—If the Administrator de-
7	termines an exclusive arrangement is necessary, the
8	Administrator shall, to the greatest extent prac-
9	ticable, issue the Space Act Agreement—
10	"(A) utilizing a competitive selection proc-
11	ess when exclusive arrangements are necessary;
12	and
13	"(B) pursuant to public announcements
14	when exclusive arrangements are necessary.
15	"(c) Transparency.—The Administrator shall pub-
16	licly disclose on the Administration's website and make
17	available in a searchable format each Space Act Agree-
18	ment, including an estimate of committed Administration
19	resources and the expected benefits to Administration ob-
20	jectives for each agreement, with appropriate redactions
21	for proprietary, sensitive, or classified information, not
22	later than 60 days after such agreement is signed by the
23	parties.
24	"(d) Annual Reports.—

1	"(1) REQUIREMENT.—Not later than 90 days
2	after the end of each fiscal year, the Administrator
3	shall submit to the appropriate committees of Con-
4	gress a report on the use of Space Act Agreement
5	authority by the Administration during the previous
6	fiscal year.
7	"(2) Contents.—The report shall include for
8	each Space Act Agreement in effect at the time of
9	the report—
10	"(A) an indication of whether the agree-
11	ment is a reimbursable, non-reimbursable, or
12	funded Space Act Agreement;
13	"(B) a description of—
14	"(i) the subject and terms;
15	"(ii) the parties;
16	"(iii) the responsible—
17	"(I) mission directorate;
18	$``(\Pi)$ center; or
19	"(III) headquarters element;
20	"(iv) the value;
21	"(v) the extent of the cost sharing
22	among Federal Government and non-Fed-
23	eral sources;
24	"(vi) the time period or schedule; and
25	"(vii) all milestones; and

1	"(C) an indication of whether the agree-
2	ment was renewed during the previous fiscal
3	year.
4	"(3) Anticipated agreements.—The report
5	shall include a list of all anticipated reimbursable,
6	non-reimbursable, and funded Space Act Agreements
7	for the upcoming fiscal year.
8	"(4) Cumulative program benefits.—The
9	report shall include, with respect to each Space Act
10	Agreement covered by the report, a summary of—
11	"(A) the technology areas in which re-
12	search projects were conducted under that
13	agreement;
14	"(B) the extent to which the use of that
15	agreement—
16	"(i) has contributed to a broadening
17	of the technology and industrial base avail-
18	able for meeting Administration needs; and
19	"(ii) has fostered within the tech-
20	nology and industrial base new relation-
21	ships and practices that support the
22	United States; and
23	"(C) the total amount of value received by
24	the Federal Government during the fiscal year
25	under that agreement.".

1	(2) Chapter heading typeface.—The chap-
2	ter heading of chapter 717 of title 51, United States
3	Code, as added by paragraph (1), is amended so
4	that the typeface of that chapter heading conforms
5	to the typeface of other chapter headings in title 51,
6	United States Code.
7	(3) Chapter table of contents type-
8	FACE.—The chapter table of contents of chapter 717
9	of title 51, United States Code, as added by para-
10	graph (1), is amended so that the typeface of the
11	subchapter headings and the typeface of the sub-
12	chapter items conform to those appearing in other
13	chapter table of contents of title 51.
14	(4) Subchapter Heading TypeFace.—The
15	subchapter headings for subchapters I through V of
16	chapter 717 of title 51, United States Code, as
17	added by paragraph (1), are amended so that the
18	typeface of those subchapter headings conforms to
19	the typeface of subchapter headings in other chap-
20	ters of title 51, United States Code.
21	(aa) Committee Name Change.—
22	(1) Section 20117(1) of title 51, United States
23	Code, is amended by striking "Committee on Science
24	and Technology" and inserting "Committee on
25	Science, Space, and Technology".

1	(2) Section 311 of the National Aeronautics
2	and Space Administration Authorization Act of 2000
3	(Public Law 106–391, 51 U.S.C. 20143 note) is
4	amended—
5	(A) in subsection (a), by striking "Com-
6	mittee on Science" and inserting "Committee
7	on Science, Space, and Technology'; and
8	(B) in subsection (b), by striking "Com-
9	mittees on Science and Appropriations" and in-
10	serting "Committee on Science, Space, and
11	Technology and the Committee on Appropria-
12	tions".
13	(3) Section 30303(b) of title 51, United States
14	Code, is amended by striking "Committee on Science
15	and Technology" and inserting "Committee on
16	Science, Space, and Technology".
17	(4) Section 30305(c) (matter before paragraph
18	(1)) of title 51, United States Code, is amended by
19	striking "Committee on Science and Technology"
20	and inserting "Committee on Science, Space, and
21	Technology".
22	(5) Section 203(b) of the America COMPETES
23	Reauthorization Act of 2010 (Public Law 111–358,
24	51 U.S.C. note prec. 30501) is amended by striking
25	"Committee on Science and Technology" and insert-

1	ing "Committee on Science, Space, and Tech-
2	nology".
3	(6) Section 30501(a) of title 51, United States
4	Code, is amended by striking "Committee on Science
5	and Technology" and inserting "Committee on
6	Science, Space, and Technology".
7	(7) Section 30502 of title 51, United States
8	Code, is amended—
9	(A) in subsection (a), by striking "Com-
10	mittee on Science and Technology" and insert-
11	ing "Committee on Science, Space, and Tech-
12	nology"; and
13	(B) in subsection (d) (matter before para-
14	graph (1)), by striking "Committee on Science
15	and Technology" and inserting "Committee on
16	Science, Space, and Technology".
17	(8) Section 30503(c) (matter before paragraph
18	(1)) of title 51, United States Code, is amended by
19	striking "Committee on Science and Technology"
20	and inserting "Committee on Science, Space, and
21	Technology".
22	(9) Section 102 of the National Aeronautics
23	and Space Administration Authorization Act of 2005
24	(Public Law 109–155, 51 U.S.C. note prec. 49901
25	(formerly 40901)) is amended by striking "Com-

1	mittee on Science" and inserting "Committee on
2	Science, Space, and Technology" in the following
3	provisions:
4	(A) Subsection (a)(2)(A).
5	(B) Subsection (a)(2)(B).
6	(C) Subsection (b) (matter before para-
7	graph (1)).
8	(D) Subsection $(e)(3)$.
9	(E) Subsection (d).
10	(F) Subsection (e)(2) (matter before sub-
11	paragraph (A)).
12	(10) Section 49906(b) (matter before para-
13	graph (1)) of title 51, United States Code (as redes-
14	ignated by subsection (n)(3)), is amended by strik-
15	ing "Committee on Science and Technology" and in-
16	serting "Committee on Science, Space, and Tech-
17	nology".
18	(11) Section 50134(b)(1) (matter before sub-
19	paragraph (A)) of title 51, United States Code, is
20	amended by striking "Committee on Science and
21	Technology" and inserting "Committee on Science,
22	Space, and Technology".
23	(12) Section 50505(a) of title 51, United States
24	Code, is amended by striking "Committee on Science

1	and Technology' and inserting "Committee on
2	Science, Space, and Technology".
3	(13) Section 50703 of title 51, United States
4	Code, is amended by striking "Committee on Science
5	and Technology" and inserting "Committee on
6	Science, Space, and Technology".
7	(14) Section 621(b) (matter before paragraph
8	(1)) of the National Aeronautics and Space Adminis-
9	tration Authorization Act of 2008 (Public Law 110–
10	422, 51 U.S.C. 50903 note) is amended by striking
11	"Committee on Science and Technology" and insert-
12	ing "Committee on Science, Space, and Tech-
13	nology".
14	(15) Section 50906(a) of title 51, United States
15	Code, is amended by striking "Committee on
16	Science' and inserting "Committee on Science,
17	Space, and Technology".
18	(16) Section 50914(d)(1) of title 51, United
19	States Code, is amended by striking "Committee on
20	Science' and inserting "Committee on Science,
21	Space, and Technology".
22	(17) Section 60505(b) of title 51, United States
23	Code, is amended by striking "Committee on Science
24	and Technology' and inserting "Committee on
25	Science, Space, and Technology".

1	(18) Section 502 of the National Aeronautics
2	and Space Administration Authorization Act of 2005
3	(Public Law 109–155, 51 U.S.C. 70501 note) is
4	amended—
5	(A) in subsection (b) (matter before para-
6	graph (1)), by striking "Committee on Science"
7	and inserting "Committee on Science, Space,
8	and Technology"; and
9	(B) in subsection (c), by striking "Com-
10	mittee on Science" and inserting "Committee
11	on Science, Space, and Technology".
12	(19) Section 313(c) of the National Aeronautics
13	and Space Administration Authorization Act of 2000
14	(Public Law 106–391, 51 U.S.C. 70506 note) is
15	amended by striking "Committee on Science" and
16	inserting "Committee on Science, Space, and Tech-
17	nology".
18	(20) Section 203(b) of the National Aeronautics
19	and Space Administration Authorization Act of 2000
20	(Public Law 106–391, 51 U.S.C. 70901 note) is
21	amended by striking "Committee on Science" and
22	inserting "Committee on Science, Space, and Tech-
23	nology".
24	(21) Section 205(b) (matter before paragraph
25	(1)) of the National Aeronautics and Space Adminis-

1	tration Authorization Act of 2000 (Public Law 106–
2	391, 51 U.S.C. 70901 note) is amended by striking
3	"Committee on Science" and inserting "Committee
4	on Science, Space, and Technology".
5	SEC. 4. TECHNICAL AMENDMENTS.
6	(a) Title 5, United States Code.—Section 914
7	of the Ronald W. Reagan National Defense Authorization
8	Act for Fiscal Year 2005 (Public Law 108–375, 5 U.S.C.
9	552 note) is amended—
10	(1) in subsection $(b)(1)(B)$, by striking "the
11	Land Remote Sensing Policy Act of 1992 (15 U.S.C.
12	5601 et seq.);" and inserting "chapter 601 of title
13	51, United States Code;"; and
14	(2) in subsection (e), by striking "section 3 of
15	the Land Remote Sensing Policy Act of 1992 (15
16	U.S.C. 5602)." and inserting "section 60101 of title
17	51, United States Code.".
18	(b) TITLE 28, UNITED STATES CODE.—
19	(1) The chapter table of contents of chapter
20	123 of title 28, United States Code, is amended in
21	the item for section 1932 (relating to revocation of
22	earned release credit) by striking "1932" and insert-
23	ing "1933".

1	(2) Section 1932 of title 28, United States
2	Code (relating to revocation of earned release cred-
3	it), is redesignated as section 1933 of that title.
4	(c) Title 31, United States Code.—Section 1(4)
5	of Public Law 107–74 (31 U.S.C. 1113 note), is amended
6	by striking "Section 206 of the National Aeronautics and
7	Space Act of 1958 (42 U.S.C. 2476)." and inserting "Sec-
8	tion 20116 of title 51, United States Code.".
9	(d) TITLE 36, UNITED STATES CODE.—The title
10	table of contents of title 36, United States Code, is amend-
11	ed—
12	(1) in the item for chapter 23, by striking
13	"Council" and inserting "Museum"; and
14	(2) in the item for chapter 307, by striking
15	"For" and inserting "for".
16	(e) TITLE 42, UNITED STATES CODE.—
17	(1) Section 602(b)(1) of the National Aero-
18	nautics and Space Administration Authorization Act
19	of 2010 (42 U.S.C. 18362(b)(1)) is amended by
20	striking "section 302 of this Act." and inserting
21	"section 71521 of title 51, United States Code.".
22	(2) Section 603 of the National Aeronautics
23	and Space Administration Authorization Act of 2010
24	(42 U.S.C. 18363) is amended—

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1	(A) in subsection (a), by striking "(42
2	U.S.C. 17761(a))," and inserting "(Public Law
3	110–422, 51 U.S.C. 70501 note),"; and
4	(B) in subsection (b), by striking "(42
5	U.S.C. 17761(a))." and inserting "(Public Law
6	110–422, 51 U.S.C. 70501 note).".
7	(f) TITLE 51, UNITED STATES CODE.—
8	(1) Section 10802 of the National Aeronautics
9	and Space Administration Authorization Act of 2022
10	(Public Law 117–167, 51 U.S.C. 10101 note) is
11	amended—
12	(A) in paragraph (11), by striking "section
13	303 of the National Aeronautics and Space Ad-
14	ministration Authorization Act of 2010 (42
15	U.S.C. 18323)." and inserting "section 71522
16	of title 51, United States Code."; and
17	(B) in paragraph (14), by striking "section
18	302 of the National Aeronautics and Space Ad-
19	ministration Act of 2010 (42 U.S.C. 18322)."
20	and inserting "section 71521 of title 51, United
21	States Code.".
22	(2) Section 2 of the National Aeronautics and
23	Space Administration Transition Authorization Act
24	of 2017 (Public Law 115–10, 51 U.S.C. 10101
25	note) is amended—

1	(A) in paragraph (8), by striking "section
2	504(a) of the National Aeronautics and Space
3	Administration Authorization Act of 2010 (42
4	U.S.C. 18354(a))." and inserting "section
5	70911(a) of title 51, United States Code.";
6	(B) in paragraph (10), by striking "section
7	303 of the National Aeronautics and Space Ad-
8	ministration Authorization Act of 2010 (42
9	U.S.C. 18323)." and inserting "section 71522
10	of title 51, United States Code."; and
11	(C) in paragraph (11), by striking "section
12	3 of the National Aeronautics and Space Ad-
13	ministration Authorization Act of 2010 (42
14	U.S.C. 18302)." and inserting "section 71501
15	of title 51, United States Code.".
16	(3) Section 10812 of the National Aeronautics
17	and Space Administration Authorization Act of 2022
18	(Public Law 117–167, 51 U.S.C. 20301 note) is
19	amended—
20	(A) in subsection (e)(1), by striking "sec-
21	tion 302(c)(2) of the National Aeronautics and
22	Space Administration Authorization Act of
23	2010 (42 U.S.C. 18322(c)(2))," and inserting
24	"section 71521(c)(2) of title 51, United States
25	Code,"; and

1	(B) in subsection (f), by striking "section
2	302(c)(3) of the National Aeronautics and
3	Space Administration Authorization Act of
4	2010 (42 U.S.C. 18322(c)(3))," and inserting
5	"section 71521(c)(3) of title 51, United States
6	Code,".
7	(4) Section 421 of the National Aeronautics
8	and Space Administration Transition Authorization
9	Act of 2017 (Public Law 115–10, 51 U.S.C. 20301
10	note) is amended—
11	(A) in subsection (e)—
12	(i) in paragraph (1), by striking "sec-
13	tion 303(b)(3) of the National Aeronautics
14	and Space Administration Authorization
15	Act of 2010 (42 U.S.C. 18323(b)(3))."
16	and inserting "section 71522(b)(3) of title
17	51, United States Code.";
18	(ii) in paragraph (2)(A), by striking
19	"section $303(b)(3)$ of that Act (42 U.S.C.
20	18323(b)(3));" and inserting "section
21	71522(b)(3) of title 51, United States
22	Code;"; and
23	(iii) in subparagraphs (C) and (D) of
24	paragraph (2), by striking "section
25	303(b)(3) of that Act (42 U.S.C.

1	18323(b)(3))" and inserting "section
2	71522(b)(3) of title 51, United States
3	Code,"; and
4	(B) in subsection (h)(1), by striking "sec-
5	tion 302(c) of the National Aeronautics and
6	Space Administration Authorization Act of
7	2010 (42 U.S.C. 18322(c))." and inserting
8	"section 71521(c) of title 51, United States
9	Code.".
10	(5) Section 20302(c) of title 51, United States
11	Code, is amended—
12	(A) in paragraph (1), by striking "section
13	303 of the National Aeronautics and Space Ad-
14	ministration Authorization Act of 2010 (42
15	U.S.C. 18323)." and inserting "section 71522
16	of this title."; and
17	(B) in paragraph (2)—
18	(i) by striking "means has the mean-
19	ing" and inserting "has the meaning"; and
20	(ii) by striking "section 3 of the Na-
21	tional Aeronautics and Space Administra-
22	tion Authorization Act of 2010 (42 U.S.C.
23	18302)." and inserting "section 71501 of
24	this title.".

1	(6) Section 10811 of the National Aeronautics
2	and Space Administration Authorization Act of 2022
3	(Public Law 117–167, 51 U.S.C. 20302 note) is
4	amended—
5	(A) in subsection (a)(2)(A), by striking
6	"section 432 of the National Aeronautics and
7	Space Administration Transition Authorization
8	Act of 2017 (Public Law 115–10; 51 U.S.C.
9	20302 note);" and inserting "section 71721 of
10	title 51, United States Code;"; and
11	(B) in subsection (b)(2)(C)(ii), by striking
12	"section 432 of the National Aeronautics and
13	Space Administration Transition Authorization
14	Act of 2017 (Public Law 115–10; 51 U.S.C.
15	20302 note);" and inserting "section 71721 of
16	title 51, United States Code;".
17	(7) Section 837(a)(4) of the National Aero-
18	nautics and Space Administration Transition Au-
19	thorization Act of 2017 (Public Law 115–10, 51
20	U.S.C. 31502 note) is amended by striking "section
21	432 of this Act," and inserting "section 71721 of
22	title 51, United States Code,".
23	(8) Section 202 of the National Space Grant
24	College and Fellowship Act (Public Law 100–147,
25	title II, 51 U.S.C. 40301 note) is amended—

1	(A) by striking "The Congress finds" and
2	inserting "(a) Congress finds"; and
3	(B) by adding at the end the following:
4	"(b) The definitions in section 40302 of title 51,
5	United States Code, apply in this section.".
6	(9) Section $50111(e)(2)$ of title 51, United
7	States Code, is amended—
8	(A) in subparagraph (E), by striking "sec-
9	tion 301(b)(2) of the National Aeronautics and
10	Space Administration Transition Authorization
11	Act of 2017;" and inserting "section 70912(2)
12	of this title;";
13	(B) in subparagraph (G), by striking "sec-
14	tion 432 of the National Aeronautics and Space
15	Administration Transition Authorization Act of
16	2017;" and inserting "section 71721 of this
17	title;"; and
18	(C) in subparagraph (J) (matter before
19	clause (i)), by striking "section 503 of the Na-
20	tional Aeronautics and Space Administration
21	Authorization Act of 2010 (42 U.S.C. 18353),"
22	and inserting "section 70910 of this title,".
23	(10) Section 302(c)(1) of the National Aero-
24	nautics and Space Administration Transition Au-
25	thorization Act of 2017 (Public Law 115–10, 51

1	U.S.C. 50111 note) is amended by striking "(42	
2	U.S.C. 18301 et seq.);" and inserting "(Public Lav	
3	111–267, 124 Stat. 2805);".	
4	(11) Section 303(b)(2) of the National Aero-	
5	nautics and Space Administration Transition Au-	
6	thorization Act of 2017 (Public Law 115–10, 51	
7	U.S.C. 50111 note) is amended by striking "section	
8	432 of this Act." and inserting "section 71721 of	
9	title 51, United States Code.".	
10	(12) Section 501 of the National Aeronautics	
11	and Space Administration Authorization Act, Fiscal	
12	Year 1993 (Public Law 102–588, 51 U.S.C. 50501	
13	note) is amended by striking "The Congress finds	
14	that—" and inserting the following:	
15	"(a) Definitions.—The definitions in section 50501	
16	of title 51, United States Code, apply in this section.	
17	"(b) In General.—Congress finds that—".	
18	(13) Section 70104 of title 51, United States	
19	Code, is amended by striking "section 302 of the	
20	National Aeronautics and Space Administration Au-	
21	thorization Act of 2010 (42 U.S.C. 18322)." and in-	
22	serting "section 71521 of this title.".	
23	(14) Section 70501(a)(2) of title 51, United	
24	States Code, is amended by striking "section 421(f)	
25	of the National Aeronautics and Space Administra-	

1	tion Transition Authorization Act of 2017" and in-
2	serting "section 71711(c) of this title".
3	(15) Section 70504(a) of title 51, United States
4	Code, is amended—
5	(A) in paragraph (1), by striking "section
6	202(b)(5) of the National Aeronautics and
7	Space Administration Authorization Act of
8	2010 (42 U.S.C. 18312(b)(5));" and inserting
9	"section 71512(b)(5) of this title;"; and
10	(B) in paragraph (2), by striking "section
11	432 of the National Aeronautics and Space Ad-
12	ministration Transition Authorization Act of
13	2017." and inserting "section 71721 of this
14	title.".
15	SEC. 5. TRANSITIONAL AND SAVINGS PROVISIONS.
16	(a) Definitions.—In this section:
17	(1) RESTATED PROVISION.—The term "restated
18	provision" means a provision of title 51, United
19	States Code, that is enacted by section 3.
20	(2) Source Provision.—The term "source
21	provision" means a provision of law that is replaced
22	by a restated provision.
23	(b) Cutoff Date.—The restated provisions replace
24	certain provisions of law enacted on or before April 10,
25	2025. If a law enacted after that date amends or repeals

- 1 a source provision, that law is deemed to amend or repeal,
- 2 as the case may be, the corresponding restated provision.
- 3 If a law enacted after that date is otherwise inconsistent
- 4 with a restated provision or a provision of this Act, that
- 5 law supersedes the restated provision or provision of this
- 6 Act to the extent of the inconsistency.
- 7 (c) Original Date of Enactment Unchanged.—
- 8 A restated provision is deemed to have been enacted on
- 9 the date of enactment of the corresponding source provi-
- 10 sion.
- 11 (d) References to Restated Provisions.—A
- 12 reference to a restated provision is deemed to refer to the
- 13 corresponding source provision.
- 14 (e) References to Source Provisions.—A ref-
- 15 erence to a source provision, including a reference in a
- 16 regulation, order, or other law, is deemed to refer to the
- 17 corresponding restated provision.
- 18 (f) REGULATIONS, ORDERS, AND OTHER ADMINIS-
- 19 TRATIVE ACTIONS.—A regulation, order, or other admin-
- 20 istrative action in effect under a source provision con-
- 21 tinues in effect under the corresponding restated provi-
- 22 sion.
- 23 (g) Actions Taken and Offenses Committed.—
- 24 An action taken or an offense committed under a source

- 1 provision is deemed to have been taken or committed
- 2 under the corresponding restated provision.

3 SEC. 6. REPEALS.

- 4 (a) In General.—The provisions of law listed in
- 5 subsection (b) are repealed, except with respect to rights
- 6 and duties that matured, penalties that were incurred, or
- 7 proceedings that were begun before the date of enactment
- 8 of this Act.
- 9 (b) Schedule of Laws Repealed.—The repealed
- 10 provisions referred to in subsection (a) are listed in the

11 table below.

Schedule of Laws Repealed

Act	Section	United States Code Former Classification
National Aeronautics and Space Administration Authorization Act, Fiscal Year 1989 (Public Law 100–685)	104	31 U.S.C. 1105 note
National Aeronautics and Space Administration Authorization Act, Fiscal Year 1993 (Public Law 102–588)	210	51 U.S.C. 30103 note
National Aeronautics and Space Administration Authorization Act of 2010 (Public Law 111–267)	201	42 U.S.C. 18311
	202	42 U.S.C. 18312
	301(b)	42 U.S.C. 18321(b)
	302	42 U.S.C. 18322
	303	42 U.S.C. 18323
	304	42 U.S.C. 18324
	305	42 U.S.C. 18325
	308	42 U.S.C. 18326
	401	42 U.S.C. 18341
	403	42 U.S.C. 18342
	501	42 U.S.C. 18351
	502	42 U.S.C. 18352
	503(a)	42 U.S.C. 18353(a)
	503(d)	42 U.S.C. 18353(d)
	503(e)	42 U.S.C. 18353(e)
	503(f)	42 U.S.C. 18353(f)
	504	42 U.S.C. 18354
	702	42 U.S.C. 18371
	703	42 U.S.C. 18372
	704	42 U.S.C. 18373
	706	42 U.S.C. 18374
	801	42 U.S.C. 18381
	802(b) through (e)	42 U.S.C. 18382(b) through (e)
	804	42 U.S.C. 18383
	805	42 U.S.C. 18384
	806(b), (c)	42 U.S.C. 18385(b), (c)
	807	42 U.S.C. 18386
	808	42 U.S.C. 18387

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Schedule of Laws Repealed—Continued

Act	Section	United States Code Former Classi fication
	902	42 U.S.C. 18401
	903	42 U.S.C. 18402
	904	42 U.S.C. 18403
	906	42 U.S.C. 18404
	907	42 U.S.C. 18405
	1202(b)	42 U.S.C. 18441(b)
	1203(b)	42 U.S.C. 18442(b)
	1206 1207	42 U.S.C. 18444 42 U.S.C. 18445
America COMPETES Reauthoriza-	202(b)	51 U.S.C. note prec. 40901
tion Act of 2010 (Public Law 111–358)	(0)	010.00, 2000 p. 00, 2000
	203(e)	51 U.S.C. note prec. 30501
	204(b)	51 U.S.C. 20303 note
National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239)	913(a), (b)	51 U.S.C. 30701 note
Science Appropriations Act, 2013	(1st, 2d provisos under heading	51 U.S.C. 20145 note
(Public Law 113–6, div. B, title	"CONSTRUCTION AND ENVIRON-	
III)	MENTAL COMPLIANCE AND RES-	
	Toration", at 127 Stat. 263)	
Inspiring the Next Space Pioneers,	3	51 U.S.C. note prec. 40901
Innovators, Researchers, and Explorers (INSPIRE) Women Act (Public Law 115–7)		
National Aeronautics and Space Ad-	301(b)	51 U.S.C. 50111 note
ministration Transition Authoriza-		
tion Act of 2017 (Public Law		
115–10)		
	301(e)	42 U.S.C. 18351, 51 U.S.C. 5011
	202/10	note
	302(d)	42 U.S.C. 18311, 51 U.S.C. 5011 note
	302(e)	51 U.S.C. 50111 note
	302(f)	42 U.S.C. 18341, 51 U.S.C. 5011
	3.2(2)	note
	302(g)	51 U.S.C. 50111 note
	302(h)(2)	51 U.S.C. 50111 note
	421(b)(2)	51 U.S.C. 20301 note
	421(d)	51 U.S.C. 20301 note
	421(f)	51 U.S.C. 20301 note
	421(g)	51 U.S.C. 20301 note
	432(b) 501(b)	51 U.S.C. 20302 note 51 U.S.C. 20301 note
	501(b) 502(b)	51 U.S.C. 20301 note
	508	51 U.S.C. 20301 note
	509	51 U.S.C. 20301 note
	517	51 U.S.C. 20113 note
	701(e)	51 U.S.C. 20301 note
	701(d)	51 U.S.C. 20301 note
	702(a)	51 U.S.C. 20301 note
	702(b)	51 U.S.C. 20301 note
	702(c) 702(d)	51 U.S.C. 20301 note 51 U.S.C. 20301 note
	702(d) 702(e)	51 U.S.C. 20301 note
	702(f)(1)	51 U.S.C. 20301 note
	702(h)	51 U.S.C. 20301 note
	811(a)	51 U.S.C. 20111 note
	812	51 U.S.C. 20111 note
	813(b)	51 U.S.C. 20111 note
	821	51 U.S.C. 20111 note
	822(e) 824(b)(1)	51 U.S.C. 50131 note 51 U.S.C. note prog. 40901
	824(b)(1) 825(c)	51 U.S.C. note prec. 40901 51 U.S.C. 50131 note
	826 826	51 U.S.C. 70102 note
	837(b)	51 U.S.C. 31502 note
	837(c)	51 U.S.C. 31502 note
	837(d)	51 U.S.C. 31502 note
	837(e)	51 U.S.C. 31502 note
		51 U.S.C. 20113 note

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Schedule of Laws Repealed—Continued

Act	Section	United States Code Former Classification
Women in Aerospace Education Act (Public Law 115–303) William M. (Mac) Thornberry Na- tional Defense Authorization Act for Fiscal Year 2021 (Public Law 116–283)	841(c) 841(d) 841(e) 3	51 U.S.C. 20113 note 51 U.S.C. 20113 note 51 U.S.C. 20113 note 51 U.S.C. note prec. 40901 51 U.S.C. note prec. 40901