

119TH CONGRESS
2D SESSION

H. R. 5174

AN ACT

To make revisions in title 51, United States Code, as necessary to keep the title current, and to make technical amendments to improve the United States Code.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. TABLE OF CONTENTS.**

2 The table of contents for this Act is as follows:

Sec. 1. Table of contents.

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

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

Sec. 4. Technical amendments.

Sec. 5. Transitional and savings provisions.

Sec. 6. Repeals.

3 **SEC. 2. PURPOSES; RESTATEMENT DOES NOT CHANGE**
 4 **MEANING OR EFFECT OF EXISTING LAW.**

5 (a) PURPOSES.—The purposes of this Act are—

6 (1) to make revisions in title 51, United States
 7 Code, as necessary to keep the title current; and

8 (2) to make technical amendments to improve
 9 the United States Code.

10 (b) RESTATEMENT DOES NOT CHANGE MEANING OR
 11 EFFECT OF EXISTING LAW.—

12 (1) IN GENERAL.—The restatement of existing
 13 law enacted by this Act does not change the mean-
 14 ing or effect of the existing law. The restatement in-
 15 corporates in title 51, United States Code, various
 16 provisions that were enacted separately over a period
 17 of years, reorganizing them, conforming style and
 18 terminology, modernizing obsolete language, and cor-
 19 recting drafting errors. These changes serve to re-
 20 move ambiguities, contradictions, and other imper-
 21 fections, but they do not change the meaning or ef-
 22 fect of the existing law or impair the precedential

1 value of earlier judicial decisions or other interpreta-
 2 tions.

3 (2) RULE OF CONSTRUCTION.—

4 (A) IN GENERAL.—Notwithstanding the
 5 plain meaning rule or other rules of statutory
 6 construction, a change in wording made in the
 7 restatement of existing law enacted by this Act
 8 serves to clarify the existing law as indicated in
 9 paragraph (1), but not to change the meaning
 10 or effect of the existing law.

11 (B) REVISION NOTES.—Subparagraph (A)
 12 applies whether or not a change in wording is
 13 explained by a revision note appearing in a con-
 14 gressional report accompanying this Act. If
 15 such a revision note does appear, a court shall
 16 consider the revision note in interpreting the
 17 change.

18 **SEC. 3. REVISION OF TITLE 51, UNITED STATES CODE.**

19 (a) REVISION OF TITLE TABLE OF CONTENTS.—The
 20 title table of contents of title 51, United States Code, is
 21 amended—

22 (1) by striking the item relating to chapter 301
 23 and inserting the following:

“301. Funding 30101”;

24 (2) by striking the item relating to chapter 315
 25 and inserting the following:

2 and inserting the following:

“409. Aeronautics and Space Technology	40901
“411 Through 497	Reserved
“499. Miscellaneous	49901”;

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”;

6 and inserting the following:

“701. Use of Space Launch System or Alternatives70101”; and

8 ter 713 the following:

“715. Human Space Flight and Exploration	71501
“717. Advancing Human Space Exploration	71701”

9 (b) REVISION OF SECTION 20144.—

11 United States Code, is amended—

13 ministration may carry out a program to award

15 and

17 mittee on Science and Technology’’ and insert-

1 ing “Committee on Science, Space, and Tech-
2 nology”.

3 (2) EFFECTIVE DATE.—The amendment made
4 by paragraph (1)(A) is effective on January 4, 2011.

5 (c) REVISION OF SECTION 20145.—Section 20145 of
6 title 51, United States Code, is amended—

7 (1) by redesignating subsections (f) through (h)
8 as subsections (g) through (i), respectively;

9 (2) by inserting after subsection (e) the fol-
10 lowing:

11 “(f) PROCEEDS.—Proceeds from leases entered into
12 under this section shall be deposited in the Administration
13 Construction and Environmental Compliance and Restora-
14 tion appropriations account. The proceeds shall be avail-
15 able for a period of 5 years, to the extent and in amounts
16 provided in appropriations acts.”; and

17 (3) in subsection (h) (as redesignated by para-
18 graph (1)), in the matter before paragraph (1), by
19 striking “the date of the enactment of the National
20 Aeronautics and Space Administration Authorization
21 Act of 2022,” and inserting “August 9, 2022,”.

22 (d) REVISION OF SECTION 20303.—Section 20303 of
23 title 51, United States Code, is amended—

1 (1) in subsection (c), by striking “(42 U.S.C.
 2 16611(d))” and inserting “(Public Law 109–155,
 3 119 Stat. 2900)”;

4 (2) by redesignating subsection (d) as sub-
 5 section (e); and

6 (3) by inserting after subsection (c) the fol-
 7 lowing:

8 “(d) EVALUATION AND EXPANSION OF INTER-
 9 AGENCY CONTRIBUTION.—

10 “(1) IN GENERAL.—The Administrator shall
 11 evaluate and, to the extent possible—

12 “(A) expand efforts to maximize the Ad-
 13 ministration’s contribution to interagency ef-
 14 forts to enhance science, technology, engineer-
 15 ing, and mathematics education capabilities;
 16 and

17 “(B) enhance the Nation’s technological
 18 excellence and global competitiveness.

19 “(2) IDENTIFICATION IN REPORT.—The Admin-
 20 istrator shall identify the expanded efforts and en-
 21 hancements made under paragraph (1) in the annual
 22 reports required by subsection (e).”.

23 (e) REVISION OF CHAPTER 301.—

24 (1) CHAPTER HEADING.—The chapter heading
 25 of chapter 301 of title 51, United States Code, is

1 amended by striking “**APPROPRIATIONS,**
 2 **BUDGETS, AND ACCOUNTING**” and insert-
 3 ing “**FUNDING**”.

4 (2) CHAPTER TABLE OF CONTENTS.—

5 (A) CONTENTS.—The chapter table of con-
 6 tents of chapter 301 of title 51, United States

7 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.”.

8 (B) TYPEFACE.—The chapter table of con-
 9 tents of chapter 301 of title 51, United States
 10 Code, as amended by subparagraph (A), is
 11 amended so that the typeface of the subchapter
 12 headings and the typeface of the subchapter
 13 items conform to those appearing in other chap-
 14 ter table of contents of title 51.

15 (3) REDESIGNATION OF EXISTING SECTIONS.—

16 Chapter 301 of title 51, United States Code, is
 17 amended as follows:

18 (A) Section 30103 (Budgets) is redesign-
 19 nated as section 30121, and transferred to ap-

1 pear after section 30104 (Baselines and cost
2 controls).

3 (B) Section 30104 (Baselines and cost
4 controls) is redesignated as section 30103.

5 (4) DESIGNATION OF SUBCHAPTERS.—Chapter
6 301 of title 51, United States Code, is amended
7 by—

8 (A) inserting a subchapter heading (in
9 typeface styled like other subchapter headings
10 in title 51) before section 30101 as follows:
11 “SUBCHAPTER I—GENERAL PROVI-
12 SIONS”; and

13 (B) inserting a subchapter heading (in
14 typeface styled like other subchapter headings
15 in title 51) before section 30121 (as redesign-
16 ated and transferred by paragraph (3)(A)) as
17 follows: “SUBCHAPTER II—BUDGET PRO-
18 VISIONS”.

19 (5) REVISION OF SECTION 30103.—Section
20 30103 (Baselines and cost controls) of title 51,
21 United States Code (as redesignated by paragraph
22 (3)(B)), is amended by striking “Committee on
23 Science and Technology” and inserting “Committee
24 on Science, Space, and Technology” in—

25 (A) subsection (b)(2);

1 (B) subsection (c)(1);

2 (C) subsection (d)(3);

3 (D) subsection (e)(1)(A) (matter before
4 clause (i)); and

5 (E) subsection (e)(2).

6 (6) ENACTMENT OF SECTIONS 30104 AND
7 30105.—Chapter 301 of title 51, United States Code,
8 is amended by inserting after section 30103 (Base-
9 lines and cost controls) (as redesignated by para-
10 graph (3)(B) and amended by paragraph (5)) the
11 following:

12 **“§ 30104. Reports on estimated costs for certain pro-**
13 **grams**

14 “For each program under the jurisdiction of the Ad-
15 ministration for which development costs are expected to
16 exceed \$200,000,000, the Administrator shall submit to
17 Congress, at the time of submission of the President’s an-
18 nual budget—

19 “(1) a 5-year budget detailing the estimated de-
20 velopment costs of the program; and

21 “(2) an estimate of the life-cycle costs associ-
22 ated with the program.

23 **“§ 30105. Annual report on program cost and control**

24 “(a) ANNUAL REPORT.—Not later than April 30 of
25 each year, the Administrator shall submit to the Com-

1 mittee on Commerce, Science, and Transportation of the
2 Senate and the Committee on Science, Space, and Tech-
3 nology of the House of Representatives a report on the
4 implementation during the preceding year of the corrective
5 action plan referred to in section 1203(a)(4) of the Na-
6 tional Aeronautics and Space Administration Authoriza-
7 tion Act of 2010 (Public Law 111–267, 124 Stat. 2842).

8 “(b) CONTENTS.—A report under this section shall
9 contain the following:

10 “(1) DESCRIPTION OF OVER-BUDGET OR DE-
11 LAYED PROGRAMS.—For the year covered by the re-
12 port, a description of each Administration program
13 that has exceeded its cost baseline by 15 percent or
14 more or is more than 2 years behind its projected
15 development schedule.

16 “(2) CORRECTIVE PLANS.—For each program
17 described under paragraph (1), a plan for a decrease
18 in scope or requirements, or other measures, to be
19 undertaken to control cost and schedule, including
20 any cost monitoring or corrective actions undertaken
21 pursuant to the National Aeronautics and Space Ad-
22 ministration Authorization Act of 2005 (Public Law
23 109–155, 119 Stat. 2895), and the amendments
24 made by that Act.”.

1 (7) REVISION OF SECTION 30121.—Section
2 30121 of title 51, United States Code (as redesign-
3 nated and transferred by paragraph (3)(A)), is
4 amended—

5 (A) in the section heading, by striking
6 **“Budgets”** and inserting **“General budget**
7 **documentation requirements”**; and

8 (B) in subsection (b) (matter before para-
9 graph (1)), by striking “Committee on Science
10 and Technology” and inserting “Committee on
11 Science, Space, and Technology”.

12 (8) ENACTMENT OF SECTIONS 30122 AND
13 30123.—Chapter 301 of title 51, United States Code,
14 is amended by adding at the end the following:

15 **“§ 30122. Consideration of decadal surveys**

16 “The Administration shall take into account the cur-
17 rent decadal surveys from the National Academies’ Space
18 Studies Board when submitting the President’s budget re-
19 quest to Congress.

1 **“§ 30123. Two-year budget request with third-year**
 2 **estimateEach fiscal year, the President**
 3 **shall submit to Congress a budget re-**
 4 **quest for the Administration that in-**
 5 **cludes—**

6 “(1) a budget request for the immediate fiscal
 7 year and the following fiscal year; and

8 “(2) budget estimates for the third fiscal
 9 year.”.

10 (f) REVISION OF SECTION 30310.—Section 30310 of
 11 title 51, United States Code, is amended by striking “Sec-
 12 tion 526(a) of the Energy Independence and Security Act
 13 of 2007 (42 U.S.C. 17142(a))” and inserting “Section
 14 526 of the Energy Independence and Security Act of 2007
 15 (42 U.S.C. 17142)”.

16 (g) ENACTMENT OF SECTION 30311.—

17 (1) CHAPTER TABLE OF CONTENTS.—The
 18 chapter table of contents of chapter 303 of title 51,
 19 United States Code, is amended by adding at the
 20 end the following:

“30311. Counterfeit parts.”.

21 (2) ENACTMENT OF SECTION.—Chapter 303 of
 22 title 51, United States Code, is amended by adding
 23 at the end the following:

1 **“§ 30311. Counterfeit parts**

2 “(a) IN GENERAL.—The Administrator shall plan,
3 develop, and implement a program, in coordination with
4 other Federal agencies, to detect, track, catalog, and re-
5 duce the number of counterfeit electronic parts in the Ad-
6 ministration supply chain.

7 “(b) REQUIREMENTS.—In carrying out the program,
8 the Administrator shall establish—

9 “(1) counterfeit part identification training for
10 all employees who procure, process, distribute, and
11 install electronic parts that will—

12 “(A) teach employees how to identify coun-
13 terfeit parts;

14 “(B) educate employees on procedures to
15 follow if they suspect a part is counterfeit;

16 “(C) regularly update employees on new
17 threats, identification techniques, and reporting
18 requirements; and

19 “(D) integrate industry associations, man-
20 ufacturers, suppliers, and other Federal agen-
21 cies, as appropriate;

22 “(2) an internal database to track all suspected
23 and confirmed counterfeit electronic parts that will
24 maintain, at a minimum—

25 “(A) companies and individuals known and
26 suspected of selling counterfeit parts;

1 “(B) parts known and suspected of being
2 counterfeit, including lot and date codes, part
3 numbers, and part images;

4 “(C) countries of origin;

5 “(D) sources of reporting;

6 “(E) United States Customs seizures; and

7 “(F) Government-Industry Data Exchange
8 Program reports and other public- or private-
9 sector database notifications; and

10 “(3) a mechanism—

11 “(A) to report all information on suspected
12 and confirmed counterfeit electronic parts to
13 law enforcement agency databases, industry as-
14 sociation databases, and other databases; and

15 “(B) to issue bulletins to industry on coun-
16 terfeit electronic parts and related counterfeit
17 activity.

18 “(c) REVIEW OF PROCUREMENT AND ACQUISITION
19 POLICY.—

20 “(1) IN GENERAL.—In establishing the pro-
21 gram, the Administrator shall amend acquisition and
22 procurement policy in effect on October 11, 2010, to
23 require the purchase of electronic parts from trusted
24 or approved manufacturers. To determine trusted or
25 approved manufacturers, the Administrator shall es-

1 tabish a list, assessed and adjusted at least annu-
2 ally, and create criteria for manufacturers to meet
3 in order to be placed on the list.

4 “(2) CRITERIA.—The criteria may include—

5 “(A) authentication or encryption codes;

6 “(B) embedded security markings in parts;

7 “(C) unique, hard-to-copy labels and mark-
8 ings;

9 “(D) identification of distinct lot and serial
10 codes on external packaging;

11 “(E) radio frequency identification embed-
12 ded into high-value parts;

13 “(F) physical destruction of all defective,
14 damaged, and sub-standard parts that are by-
15 products of the manufacturing process;

16 “(G) testing certifications;

17 “(H) maintenance of procedures for han-
18 dling any counterfeit parts that slip through;

19 “(I) maintenance of secure facilities to pre-
20 vent unauthorized access to proprietary infor-
21 mation; and

22 “(J) maintenance of product return, buy
23 back, and inventory control practices that limit
24 counterfeiting.”.

25 (h) ENACTMENT OF SECTIONS 30505 AND 30506.—

1 (1) CHAPTER TABLE OF CONTENTS.—The
 2 chapter table of contents of chapter 305 of title 51,
 3 United States Code, is amended by adding at the
 4 end the following:

“30505. Information security.

“30506. Workforce development for minority and underrepresented groups.”.

5 (2) ENACTMENT OF SECTIONS.—Chapter 305
 6 of title 51, United States Code, is amended by add-
 7 ing at the end the following:

8 **“§ 30505. Information security**

9 “(a) DEFINITION OF INFORMATION INFRASTRUC-
 10 TURE.—In this section, the term ‘information infrastruc-
 11 ture’ means the underlying framework that information
 12 systems and assets rely on to process, transmit, receive,
 13 or store information electronically, including program-
 14 mable electronic devices and communications networks
 15 and any associated hardware, software, or data.

16 “(b) MONITORING RISK.—

17 “(1) BIENNIAL UPDATE ON SYSTEM IMPLEMEN-
 18 TATION.—On a biennial basis, the Chief Information
 19 Officer of the Administration, in coordination with
 20 other national security agencies, shall provide to the
 21 Committee on Commerce, Science, and Transpor-
 22 tation of the Senate and the Committee on Science,
 23 Space, and Technology of the House of Representa-
 24 tives—

1 “(A) an update on efforts to implement a
2 system to provide dynamic, comprehensive, real-
3 time information regarding risk of unauthorized
4 remote, proximity, and insider use or access, for
5 all information infrastructure under the respon-
6 sibility of the Chief Information Officer, and
7 mission-related networks, including contractor
8 networks;

9 “(B) an assessment of whether the system
10 has demonstrably and quantifiably reduced net-
11 work risk compared with alternative methods of
12 measuring security; and

13 “(C) an assessment of the progress that
14 each center and facility has made toward imple-
15 menting the system.

16 “(2) EXISTING ASSESSMENTS.—The assess-
17 ments required of the Inspector General under sec-
18 tion 3555 of title 44 shall evaluate the effectiveness
19 of the system described in this subsection.

20 “(c) INFORMATION SECURITY AWARENESS AND EDU-
21 CATION.—

22 “(1) IN GENERAL.—In consultation with the
23 Department of Education, other national security
24 agencies, and other agency directorates, the Chief
25 Information Officer shall institute an information se-

1 security awareness and education program for all op-
2 erators and users of Administration information in-
3 frastructure, with the goal of reducing unauthorized
4 remote, proximity, and insider use or access.

5 “(2) PROGRAM REQUIREMENTS.—

6 “(A) BRIEFINGS, EXERCISES, AND EXAMI-
7 NATIONS.—The program shall include, at a
8 minimum, ongoing classified and unclassified
9 threat-based briefings, and automated exercises
10 and examinations that simulate common attack
11 techniques.

12 “(B) PARTICIPATION.—All agency employ-
13 ees and contractors engaged in the operation or
14 use of agency information infrastructure shall
15 participate in the program.

16 “(C) ACCESS.—Access to Administration
17 information infrastructure shall be granted only
18 to operators and users who regularly satisfy the
19 requirements of the program.

20 “(D) REWARDING ACHIEVEMENT.—The
21 Chief Human Capital Officer of the Administra-
22 tion, in consultation with the Chief Information
23 Officer, shall create a system to reward opera-
24 tors and users of agency information infrastruc-

1 ture for continuous high achievement in the
2 program.

3 **“§ 30506. Workforce development for minority and**
4 **underrepresented groups**

5 “(a) ADDRESSING IMPEDIMENTS.—To the extent
6 practicable, the Administrator shall take all necessary
7 steps to address any impediments identified in the assess-
8 ment described in subsection (b).

9 “(b) ASSESSMENT.—The assessment referred to in
10 subsection (a) is the independent assessment of impedi-
11 ments to space science and engineering workforce develop-
12 ment for minority and underrepresented groups at the Ad-
13 ministration that was prepared under section 203(a) of
14 the America COMPETES Reauthorization Act of 2010
15 (Public Law 111–358, 124 Stat. 3994).”.

16 (i) REVISION OF SECTION 30704.—Section 30704(2)
17 of title 51, United States Code, is amended by striking
18 “the Buy American Act (41 U.S.C. 10a et seq.)” and in-
19 serting “chapter 83 of title 41”.

20 (j) ENACTMENT OF SECTION 30705.—

21 (1) CHAPTER TABLE OF CONTENTS.—The
22 chapter table of contents of chapter 307 of title 51,
23 United States Code, is amended by adding at the
24 end the following:

“30705. Limitation on international agreements concerning outer space activi-
ties.”.

1 (2) ENACTMENT OF SECTION.—Chapter 307 of
2 title 51, United States Code, is amended by adding
3 at the end the following:

4 **“§ 30705. Limitation on international agreements con-**
5 **cerning outer space activities**

6 “(a) DEFINITIONS.—In this section:

7 “(1) CONGRESSIONAL DEFENSE COMMIT-
8 TEES.—The term ‘congressional defense committees’
9 means—

10 “(A) the Committee on Armed Services
11 and the Committee on Appropriations of the
12 Senate; and

13 “(B) the Committee on Armed Services
14 and the Committee on Appropriations of the
15 House of Representatives.

16 “(2) COVERED CONGRESSIONAL COMMIT-
17 TEES.—The term ‘covered congressional committees’
18 means—

19 “(A) the Committee on Armed Services,
20 the Committee on Foreign Relations, and the
21 Select Committee on Intelligence of the Senate;
22 and

23 “(B) the Committee on Armed Services,
24 the Committee on Foreign Affairs, and the Per-

1 manent Select Committee on Intelligence of the
2 House of Representatives.

3 “(b) CERTIFICATION.—If the United States becomes
4 a signatory to a non-legally binding international agree-
5 ment concerning an International Code of Conduct for
6 Outer Space Activities or any similar agreement, at the
7 same time as the United States becomes a signatory—

8 “(1) the President shall submit to the congres-
9 sional defense committees, the Permanent Select
10 Committee on Intelligence of the House of Rep-
11 resentatives, and the Select Committee on Intel-
12 ligence of the Senate a certification that the agree-
13 ment has no legally binding effect or basis for lim-
14 iting the activities of the United States in outer
15 space; and

16 “(2) the Secretary of Defense, the Chairman of
17 the Joint Chiefs of Staff, and the Director of Na-
18 tional Intelligence shall jointly submit to the con-
19 gressional defense committees a certification that
20 the agreement is equitable, enhances national secu-
21 rity, and has no militarily significant impact on the
22 ability of the United States to conduct military or
23 intelligence activities in space.

24 “(c) BRIEFINGS AND NOTIFICATIONS REQUIRED.—

1 “(1) RESTATEMENT OF POLICY FORMULATION
2 UNDER THE ARMS CONTROL AND DISARMAMENT ACT
3 WITH RESPECT TO OUTER SPACE.—No action shall
4 be taken that would obligate the United States to re-
5 duce or limit the Armed Forces or armaments of the
6 United States in outer space in a militarily signifi-
7 cant manner, except pursuant to the treaty-making
8 power of the President under Article II, Section 2,
9 Clause II of the Constitution or unless authorized by
10 the enactment of further affirmative legislation by
11 Congress.

12 “(2) BRIEFINGS.—

13 “(A) REQUIREMENT.—The Secretary of
14 Defense, the Secretary of State, and the Direc-
15 tor of National Intelligence shall jointly provide
16 to the covered congressional committees reg-
17 ular, detailed updates on the negotiation of a
18 non-legally binding international agreement
19 concerning an International Code of Conduct
20 for Outer Space Activities or any similar agree-
21 ment.

22 “(B) TERMINATION OF REQUIREMENT.—
23 The requirement to provide regular briefings
24 under subparagraph (A) shall terminate on the
25 date on which the United States becomes a sig-

natory to an agreement referred to in subparagraph (A), or on the date on which the President certifies to Congress that the United States is no longer negotiating an agreement referred to in subparagraph (A), whichever is earlier.

“(3) NOTIFICATIONS.—If the United States becomes a signatory to a non-legally binding international agreement concerning an International Code of Conduct for Outer Space Activities or any similar agreement, not less than 60 days prior to any action that would obligate the United States to reduce or limit the Armed Forces, armaments, or activities of the United States in outer space, the head of each department or agency of the Federal Government that would be affected by the action shall submit to Congress a notice of the action and its effect on the department or agency.”.

(k) REDESIGNATION OF CHAPTER 315 AS CHAPTER 399.—

(1) RESERVED CHAPTERS.—Title 51, United States Code, is amended by inserting after section 31302 the following:

“CHAPTERS 317 THROUGH 397—RESERVED”.

1 (2) REDESIGNATION OF CHAPTER.—Title 51,
 2 United States Code, is amended by redesignating
 3 chapter 315 as chapter 399.

4 (3) REDESIGNATION OF SECTIONS.—Chapter
 5 399 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 31501
 9 through 31505 as items for sections 39901
 10 through 39905, respectively; and

11 (B) by redesignating sections 31501
 12 through 31505 as sections 39901 through
 13 39905, respectively.

14 (l) ENACTMENT OF CHAPTER 315.—

15 (1) ENACTMENT OF CHAPTER.—

16 (A) CONTENT.—Title 51, United States
 17 Code, as amended by subsection (k), is amend-
 18 ed by inserting after chapter 313 (and before
 19 “CHAPTERS 317 THROUGH 397–RE-
 20 SERVED” as inserted by subsection (k)(1)) the
 21 following:

22 **“Chapter 315—FACILITIES AND**
 23 **INFRASTRUCTURE**

“Sec.

“31501. Policy and plan.

“31502. Maintenance and upgrade of center facilities.

1 **“§ 31501. Policy and plan**

2 “(a) POLICY.—It is the policy of the United States
3 that the Administration maintain reliable and efficient fa-
4 cilities and infrastructure and that decisions on whether
5 to dispose of, maintain, or modernize existing facilities or
6 infrastructure be made in the context of meeting future
7 Administration needs.

8 “(b) PLAN.—

9 “(1) IN GENERAL.—The Administrator shall
10 develop a facilities and infrastructure plan.

11 “(2) GOAL.—The goal of the plan is to position
12 the Administration to have the facilities and infra-
13 structure, including laboratories, tools, and ap-
14 proaches, necessary to meet future Administration
15 and other Federal agencies’ laboratory needs.

16 “(3) CONTENTS.—The plan shall identify—

17 “(A) current Administration and other
18 Federal agency laboratory needs;

19 “(B) future Administration research and
20 development and testing needs;

21 “(C) a strategy for identifying facilities
22 and infrastructure that are candidates for dis-
23 posal, which strategy is consistent with the na-
24 tional strategic direction set forth in—

25 “(i) the National Space Policy;

1 “(ii) the National Aeronautics Re-
2 search, Development, Test, and Evaluation
3 Infrastructure Plan;

4 “(iii) the National Aeronautics and
5 Space Administration Authorization Act of
6 2005 (Public Law 109–155, 119 Stat.
7 2895), the National Aeronautics and Space
8 Administration Authorization Act of 2008
9 (Public Law 110–422, 122 Stat. 4779),
10 and the National Aeronautics and Space
11 Administration Authorization Act of 2010
12 (Public Law 111–267, 124 Stat. 2805);
13 and

14 “(iv) the human exploration roadmap
15 under section 71721 of this title;

16 “(D) a strategy for the maintenance, re-
17 pair, upgrading, and modernization of Adminis-
18 tration facilities and infrastructure, including
19 laboratories and equipment;

20 “(E) criteria for—

21 “(i) prioritizing deferred maintenance
22 tasks;

23 “(ii) maintaining, repairing, upgrad-
24 ing, or modernizing Administration facili-
25 ties and infrastructure; and

1 “(iii) implementing processes, plans,
2 and policies for guiding the Administra-
3 tion’s centers on whether to maintain, re-
4 pair, upgrade, or modernize a facility or
5 infrastructure and for determining the type
6 of instrument to be used;

7 “(F) an assessment of modifications need-
8 ed to maximize usage of facilities that offer
9 unique and highly specialized benefits to the
10 aerospace industry and the American public;
11 and

12 “(G) implementation steps, including a
13 timeline, milestones, and an estimate of re-
14 sources required for carrying out the plan.

15 “(c) REQUIREMENT TO ESTABLISH POLICY.—

16 “(1) IN GENERAL.—Not later than 180 days
17 after March 21, 2017, the Administrator shall estab-
18 lish and make publicly available a policy that guides
19 the Administration’s use of existing authorities to
20 out-grant, lease, excess to the General Services Ad-
21 ministration, sell, decommission, demolish, or other-
22 wise transfer property, facilities, or infrastructure.

23 “(2) CRITERIA.—The policy shall include cri-
24 teria for the use of authorities, best practices, stand-
25 ardized procedures, and guidelines for how to appro-

1 priately manage property, facilities, and infrastruc-
2 ture.

3 “(d) SUBMISSION TO CONGRESS.—Not later than 1
4 year after March 21, 2017, the Administrator shall submit
5 to the Committee on Commerce, Science, and Transpor-
6 tation of the Senate and the Committee on Science, Space,
7 and Technology of the House of Representatives the plan
8 developed under subsection (b).”.

9 (B) TYPEFACE.—The chapter heading of
10 chapter 315 of title 51, United States Code, as
11 inserted by subparagraph (A), is amended so
12 that the typeface of that chapter heading con-
13 forms to the typeface of other chapter headings
14 in title 51, United States Code.

15 (2) REDESIGNATION OF SECTION 39902 AS SEC-
16 TION 31502.—

17 (A) REDESIGNATION AND TRANSFER.—
18 Section 39902 of title 51, United States Code,
19 as redesignated by subsection (k)(3)(B), is re-
20 designated as section 31502 of title 51, United
21 States Code, and transferred to appear after
22 section 31501 of title 51, United States Code,
23 as inserted by paragraph (1).

24 (B) AMENDMENT OF SECTION 31502.—Sec-
25 tion 31502 of title 51, United States Code, as

redesignated and transferred by subparagraph
(A), is amended—

(i) in the heading, by striking
“**Maintenance of facilities**” and in-
serting “**Maintenance and upgrade
of center facilities**”;

(ii) by striking “healthy Centers” and
inserting “healthy centers”; and

(iii) by striking “Center facilities” and
inserting “center facilities”.

(C) CONFORMING AMENDMENTS TO CHAP-
TER 399.—Chapter 399 of title 51, United
States Code, as redesignated and amended by
subsections (k) and (l)(2)(A), is amended—

(i) in the chapter table of contents—

(I) by striking the item relating
to section 39902; and

(II) by redesignating the items
relating to sections 39903, 39904,
and 39905 as items relating to sec-
tions 39902, 39903, and 39904, re-
spectively; and

(ii) by redesignating sections 39903,
39904, and 39905 as sections 39902,
39903, and 39904, respectively.

1 (m) REVISION OF SECTION 39901.—Section 39901
2 of title 51, United States Code (as redesignated by sub-
3 section (k)(3)), is amended—

4 (1) by redesignating the existing text as sub-
5 section (a) and inserting the subsection heading
6 “TECHNOLOGIES TO DECREASE RISK.—”; and

7 (2) by adding at the end the following:

8 “(b) INTERNATIONAL DISCUSSION.—

9 “(1) IN GENERAL.—The Administrator shall, in
10 consultation with such other departments and agen-
11 cies of the Federal Government as the Administrator
12 considers appropriate, continue and strengthen dis-
13 cussions with the representatives of other space-
14 faring countries, within the Inter-Agency Space De-
15bris Coordination Committee and elsewhere, to deal
16 with orbital debris mitigation.

17 “(2) INTERAGENCY EFFORT.—For purposes of
18 carrying out this subsection, the Director of the Of-
19 fice of Science and Technology Policy, in coordina-
20 tion with the Director of the National Security
21 Council and using the President’s Council of Advi-
22 sors on Science and Technology coordinating mecha-
23 nism, shall develop an overall strategy for review by
24 the President, with recommendations for proposed

1 international collaborative efforts to address the
2 challenge of orbital debris mitigation.”.

3 (n) REDESIGNATION OF CHAPTER 409 AS CHAPTER
4 499.—

5 (1) RESERVED CHAPTERS.—Title 51, United
6 States Code, is amended by inserting after section
7 40704 the following:

8 **“CHAPTERS 411 THROUGH 497—RE-**
9 **SERVED”**.

10 (2) REDESIGNATION OF CHAPTER.—Title 51,
11 United States Code, is amended by redesignating
12 chapter 409 as chapter 499.

13 (3) REDESIGNATION OF SECTIONS.—Chapter
14 499 of title 51, United States Code (as redesignated
15 by paragraph (2)), is amended—

16 (A) in the chapter table of contents, by re-
17 designating the items for sections 40901
18 through 40909 as items for sections 49901
19 through 49909, respectively; and

20 (B) by redesignating sections 40901
21 through 40909 as sections 49901 through
22 49909, respectively.

23 (o) ENACTMENT OF CHAPTER 409.—Title 51, United
24 States Code, is amended by inserting after chapter 407

1 (and before “CHAPTERS 411 THROUGH 497—RE-
 2 SERVED” as inserted by subsection (n)(1)) the following:

3 **“Chapter 409—AERONAUTICS**
 4 **AND SPACE TECHNOLOGY**

“Sec.

“40901. Aeronautics research goals.

“40902. Research collaboration.

“40903. Goal for Administration space technology.

“40904. National space technology policy.

“40905. Commercial Reusable Suborbital Research Program.

5 **“§ 40901. Aeronautics research goals**

6 “The Administrator should ensure that the Adminis-
 7 tration maintains a strong aeronautics research portfolio
 8 ranging from fundamental research through systems re-
 9 search with specific research goals, including the following:

10 “(1) AIRSPACE CAPACITY.—The Administra-
 11 tion’s Aeronautics Research Mission Directorate
 12 shall address research needs of the Next Generation
 13 Air Transportation System, including the ability of
 14 the National Airspace System to handle up to 3
 15 times the current travel demand by 2025.

16 “(2) ENVIRONMENTAL SUSTAINABILITY.—The
 17 Directorate shall—

18 “(A) consider and pursue concepts to re-
 19 duce noise, emissions, and fuel consumption
 20 while maintaining high safety standards; and

21 “(B) pursue research relating to alter-
 22 native fuels.

1 “(3) AVIATION SAFETY.—The Directorate shall
 2 proactively address safety challenges with new and
 3 current air vehicles and with operations in the Na-
 4 tion’s current and future air transportation system.

5 **“§ 40902. Research collaboration**

6 “(a) DEPARTMENT OF DEFENSE.—The Adminis-
 7 trator shall continue to coordinate with the Secretary of
 8 Defense, through the National Partnership for Aero-
 9 nautics Testing, to develop and implement joint plans for
 10 those elements of the Nation’s research, development, test-
 11 ing, and engineering infrastructure that are of common
 12 interest and use.

13 “(b) FEDERAL AVIATION ADMINISTRATION.—The
 14 Administrator shall continue to coordinate with, and work
 15 closely with, the Administrator of the Federal Aviation
 16 Administration, under the framework of the Senior Policy
 17 Council, in the development of the Next Generation Air
 18 Transportation Program. The Administrator shall encour-
 19 age the Council to explore areas for greater collaboration,
 20 including areas in which the Administration can help to
 21 accelerate the development and demonstration of NextGen
 22 technologies.

23 **“§ 40903. Goal for Administration space technology**

24 “Building on its Innovative Partnerships Program
 25 and other partnering approaches, it is critical that the Ad-

1 ministration maintain an Administration space technology
2 base that helps align mission directorate investments and
3 supports long term needs—

4 “(1) to complement mission-directorate funded
5 research; and

6 “(2) where appropriate, to support multiple
7 users.

8 **“§ 40904. National space technology policy**

9 “(a) IN GENERAL.—The President, in consultation
10 with appropriate Federal agencies, shall develop a national
11 policy to guide the space technology development pro-
12 grams of the United States through 2020. The policy shall
13 include national goals for technology development and
14 shall describe the role and responsibilities of each Federal
15 agency that will carry out the policy. In developing the
16 policy, the President shall utilize external studies that
17 have been conducted on the state of United States tech-
18 nology development and have suggested policies to ensure
19 continued competitiveness.

20 “(b) CONTENT.—At a minimum, the national space
21 technology development policy shall describe for the Ad-
22 ministration—

23 “(1) the priority areas of research for tech-
24 nology investment;

1 “(2) the basis on which and the process by
2 which priorities for ensuing fiscal years will be se-
3 lected;

4 “(3) the facilities and personnel needed to carry
5 out the technology development program; and

6 “(4) the budget assumptions on which the pol-
7 icy is based, which for fiscal years 2011, 2012, and
8 2013 shall be the authorized level for the Adminis-
9 tration’s technology program authorized by the Na-
10 tional Aeronautics and Space Administration Au-
11 thorization Act of 2010 (Public Law 111–267, 124
12 Stat. 2805).

13 “(c) POLICY PREMISE.—The policy shall be based on
14 the premise that the Federal Government has an estab-
15 lished interest in conducting research and development
16 programs that help preserve the role of the United States
17 as a global leader in space technologies and their applica-
18 tion.

19 “(d) CONSIDERATIONS.—In developing the national
20 space technology development policy, the President shall
21 consider the following issues:

22 “(1) LONG TERM AND INCREMENTAL DEVELOP-
23 MENT.—The extent to which the Administration
24 should focus on long term, high-risk research or
25 more incremental technology development, and the

1 expected impact of that decision on the United
2 States economy.

3 “(2) MILITARY AND COMMERCIAL NEEDS.—The
4 extent to which the Administration should address
5 military and commercial needs.

6 “(3) COORDINATION WITH FEDERAL AGEN-
7 CIES.—How the Administration will coordinate its
8 technology program with other Federal agencies.

9 “(4) ADMINISTRATION, UNIVERSITY, AND IN-
10 DUSTRY RESEARCH.—The extent to which the Ad-
11 ministration will conduct research in-house, fund
12 university research, and collaborate on industry re-
13 search and the expected impact of that mix of fund-
14 ing on the supply of United States workers for in-
15 dustry.

16 “(e) CONSULTATION.—In the development of the na-
17 tional space technology development policy, the President
18 shall consult widely with academic and industry experts
19 and with Federal agencies. The Administrator may enter
20 into an arrangement with the National Academy of
21 Sciences to help develop the policy.

22 **“§ 40905. Commercial Reusable Suborbital Research**
23 **Program**

24 “(a) FINDING THAT SUBORBITAL SCIENCE MISSIONS
25 ARE CRITICAL.—The report entitled Revitalizing NASA’s

1 Suborbital Program: Advancing Science, Driving Innova-
2 tion, and Developing a Workforce (prepared by the Com-
3 mittee on NASA’s Suborbital Research Capabilities, Space
4 Studies Board, Division on Engineering and Physical
5 Sciences, National Research Council of the National Acad-
6 emies) found that suborbital science missions are abso-
7 lutely critical to building an aerospace workforce capable
8 of meeting the needs of current and future human and
9 robotic space exploration.

10 “(b) ESTABLISHMENT.—The Administrator shall es-
11 tablish a Commercial Reusable Suborbital Research Pro-
12 gram within the Space Technology Program.

13 “(c) MANAGEMENT.—The Administrator shall des-
14 ignate an officer or employee of the Space Technology
15 Program to act as the responsible official for the Commer-
16 cial Reusable Suborbital Research Program. The designee
17 shall be responsible for the development of short- and
18 long-term strategic plans for maintaining, renewing, and
19 extending suborbital facilities and capabilities.

20 “(d) ACTIVITIES.—The Commercial Reusable Sub-
21 orbital Research Program—

22 “(1) shall fund the development of payloads for
23 scientific research, technology development, and edu-
24 cation;

1 “(2) shall provide flight opportunities to micro-
2 gravity environments and suborbital altitudes for the
3 payloads referred to in paragraph (1);

4 “(3) may fund engineering and integration
5 demonstrations, proofs of concept, or educational ex-
6 periments for commercial reusable vehicle flights;
7 and

8 “(4) shall endeavor to work with the Adminis-
9 tration’s mission directorates to help achieve the Ad-
10 ministration’s research, technology, and education
11 goals.

12 “(e) REPORT.—The Administrator shall annually
13 submit to the Committee on Commerce, Science, and
14 Transportation of the Senate and the Committee on
15 Science, Space, and Technology of the House of Rep-
16 resentatives a report describing progress in carrying out
17 the Commercial Reusable Suborbital Research program,
18 including the number and type of suborbital missions
19 planned in each fiscal year.”.

20 (p) ENACTMENT OF SECTIONS 49910 THROUGH
21 49912.—

22 (1) CHAPTER TABLE OF CONTENTS.—The
23 chapter table of contents of chapter 499 of title 51,
24 United States Code (as redesignated and amended

1 by subsection (n)), is amended by adding at the end
 2 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.”.

3 (2) ENACTMENT OF SECTIONS.—Chapter 499
 4 of title 51, United States Code (as redesignated and
 5 amended by subsection (n)), is amended by adding
 6 at the end the following:

7 **“§ 49910. Programs to support STEM education**

8 “(a) DEFINITION OF STEM.—In this section, the
 9 term ‘STEM’ means the academic and professional dis-
 10 ciplines of science, technology, engineering, and mathe-
 11 matics.

12 “(b) EDUCATIONAL PROGRAM GOALS.—The Admin-
 13 istration shall develop and maintain educational programs
 14 to—

15 “(1) carry out and support research-based pro-
 16 grams and activities designed to increase student in-
 17 terest and participation in STEM, including stu-
 18 dents from minority and underrepresented groups;

19 “(2) improve public literacy in STEM;

20 “(3) employ proven strategies and methods for
 21 improving student learning and teaching in STEM;

22 “(4) provide curriculum support materials and
 23 other resources that—

1 “(A) are designed to be integrated with
2 comprehensive STEM education;

3 “(B) are aligned with national science edu-
4 cation standards; and

5 “(C) promote the adoption and implemen-
6 tation of high-quality education practices that
7 build toward college and career-readiness; and

8 “(5) create and support opportunities for en-
9 hanced and ongoing professional development for
10 teachers using best practices that improve the
11 STEM content and knowledge of the teachers, in-
12 cluding through programs linking STEM teachers
13 with STEM educators at the higher education level.

14 “(c) CYBERSECURITY IN STEM PROGRAMS.—In car-
15 rying out any STEM education program of the Adminis-
16 tration, including a program of the Office of STEM En-
17 gagement, the Administrator shall, to the maximum extent
18 practicable, encourage the inclusion of cybersecurity edu-
19 cation opportunities in the program.

20 **“§ 49911. Supporting women’s involvement in the**
21 **fields of aerospace and space exploration**

22 “The Administrator shall encourage women and girls
23 to study science, technology, engineering, and mathe-
24 matics, pursue careers in aerospace, and further advance

1 the Nation’s space science and exploration efforts through
2 support of the following initiatives:

3 “(1) NASA GIRLS and NASA BOYS.

4 “(2) Aspire to Inspire.

5 “(3) Summer Institute in Science, Technology,
6 Engineering, and Research.

7 **“§ 49912. Internship and fellowship opportunities**

8 “Not later than October 1, 2018, the Administrator
9 shall institute a process to encourage the recruitment of
10 qualified candidates who are women or individuals who are
11 underrepresented in the fields of science, technology, engi-
12 neering, and mathematics (STEM) and computer science
13 for internships and fellowships at the Administration with
14 relevance to the aerospace sector and related fields.”.

15 (q) REVISION OF SECTION 50905.—Section 50905 of
16 title 51, United States Code, is amended—

17 (1) in the 2d sentence of subsection (a)(1), by
18 striking “subsection (b)(2)(D)” and inserting “sub-
19 section (b)(2)(E)”;

20 (2) in the 3d sentence of subsection (a)(1), by
21 striking “subsection (b)(2)(D)” and inserting “sub-
22 section (b)(2)(E)”;

23 (3) in the last sentence of subsection (a)(1), by
24 striking “Committee on Science” and inserting
25 “Committee on Science, Space, and Technology”;

1 (4) in subsection (b)(4)(B), by striking “the
2 date of enactment of the Commercial Space Launch
3 Amendments Act of 2004” and inserting “December
4 23, 2004”;

5 (5) in subsection (b)(6)(A), by striking “the
6 date of enactment of the Commercial Space Launch
7 Amendments Act of 2004” and inserting “December
8 23, 2004”; and

9 (6) in subsection (b)(6)(B), by striking “the
10 date of enactment of the Commercial Space Launch
11 Amendments Act of 2004” and inserting “December
12 23, 2004”.

13 (r) REVISION OF SECTION 50922.—Section 50922 of
14 title 51, United States Code, is amended—

15 (1) in subsection (a) (matter before paragraph
16 (1)), by striking “the date of the enactment of this
17 section,” and inserting “October 28, 1998,”;

18 (2) in subsection (b) (matter before paragraph
19 (1)), by striking “the date of the enactment of this
20 section,” and inserting “October 28, 1998,”;

21 (3) in subsection (c)(1)—

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,”;

1 (B) by striking “that Act,” and inserting
2 “the Commercial Space Launch Amendments
3 Act of 2004,”; and

4 (C) by striking “such date of enactment,”
5 and inserting “December 23, 2004,”;

6 (4) in subsection (c)(2)(A)—

7 (A) by striking “the date of enactment of
8 the Commercial Space Launch Amendments
9 Act of 2004,” and inserting “December 23,
10 2004,”; and

11 (B) by striking “the Congress.” and insert-
12 ing “Congress.”;

13 (5) in subsection (d)(2)—

14 (A) by striking “the date of enactment of
15 the Commercial Space Launch Amendments
16 Act of 2004,” and inserting “December 23,
17 2004,”; and

18 (B) by striking “that Act” and inserting
19 “the Commercial Space Launch Amendments
20 Act of 2004”; and

21 (6) in subsection (d)(3), by striking “the date
22 of enactment of the Commercial Space Launch
23 Amendments Act of 2004” and inserting “December
24 23, 2004,”.

25 (s) REVISION OF CHAPTER 515.—

1 (1) TABLE OF CONTENTS.—Chapter 515 of
2 title 51, United States Code, is amended by insert-
3 ing after the chapter heading the following:

“Sec.
“51501. Establishment of Office of Spaceports.”.

4 (2) REVISION OF SECTION 51501.—Section
5 51501 of title 51, United States Code, is amended—

6 (A) by redesignating subsections (a), (b),
7 (c), (d), and (e) as subsections (b), (c), (d), (e),
8 and (a), respectively, and transferring sub-
9 section (a), as redesignated, to appear at the
10 beginning of the section;

11 (B) in the heading for subsection (a), as
12 redesignated, by striking “DEFINITION” and in-
13 serting “DEFINITION OF SPACEPORT”;

14 (C) in subsection (a), as redesignated, by
15 inserting a comma after “In this section”;

16 (D) in subsection (b), as redesignated, by
17 striking “the date of enactment of this section,”
18 and inserting “October 5, 2018,”; and

19 (E) in subsection (d), as redesignated—

20 (i) by striking “functions assigned in
21 subsection (b),” and inserting “functions
22 assigned in subsection (c),”; and

23 (ii) by striking “host” from the end of
24 the matter before paragraph (1) and in-

1 serting “host” at the beginning of para-
 2 graph (1).

3 (t) ENACTMENT OF CHAPTER 517.—Title 51, United
 4 States Code, is amended by inserting after chapter 515
 5 the following:

6 **“Chapter 517—DEVELOPMENT**
 7 **AND USE OF COMMERCIAL**
 8 **CARGO AND CREW TRANS-**
 9 **PORTATION CAPABILITIES**

“Sec.

“51701. Commercial development of cargo transportation capabilities.

“51702. Commercial development of crew transportation capabilities.

“51703. Commercial Crew Program.

“51704. Policy regarding fair and open competition for space transportation
 services.

“51705. Transparency.

10 **“§ 51701. Commercial development of cargo transpor-**
 11 **tation capabilities**

12 “The Administrator shall continue to support the ex-
 13 isting Commercial Resupply Services program, aimed at
 14 enabling the commercial space industry in support of the
 15 Administration to develop reliable means of launching
 16 cargo and supplies to the International Space Station
 17 throughout the duration of the facility’s operation. The
 18 Administrator may apply funds toward the reduction of
 19 risk to the timely start of the services, specifically—

20 “(1) efforts to conduct a flight test;

21 “(2) the acceleration of development; and

1 “(3) the development of the ground infrastruc-
2 ture needed for commercial cargo capability.

3 **“§ 51702. Commercial development of crew transpor-**
4 **tation capabilities**

5 “For the duration of the commercial crew develop-
6 ment program, the Administrator may support follow-on
7 commercially developed crew transportation systems de-
8 pendent on the completion of each of the following:

9 “(1) HUMAN RATING REQUIREMENTS.—The
10 Administrator shall develop and make available to
11 the public detailed human rating processes and re-
12 quirements to guide the design of commercially de-
13 veloped crew transportation capabilities, which re-
14 quirements shall be at least equivalent to proven re-
15 quirements for crew transportation in use as of Oc-
16 tober 11, 2010.

17 “(2) PROCUREMENT SYSTEM REVIEW.—

18 “(A) REVIEW OF CURRENT PRACTICES
19 AND PROCESSES.—The Administrator shall re-
20 view current Government procurement and ac-
21 quisition practices and processes, including
22 agreement authorities under chapter 201 of this
23 title, to determine the most cost-effective means
24 of procuring commercial crew transportation ca-
25 pabilities and related services in a manner that

1 ensures appropriate accountability, trans-
2 parency, and maximum efficiency in the pro-
3 curement of the capabilities and services. The
4 review shall include identification of proposed
5 measures to address—

6 “(i) risk management and means of
7 indemnification of commercial providers of
8 the capabilities and services;

9 “(ii) quality control;

10 “(iii) safety oversight; and

11 “(iv) the application of Federal over-
12 sight processes within the jurisdiction of
13 other Federal agencies.

14 “(B) REVIEW OF PROPOSED PROCURE-
15 MENT.—A description of the proposed procure-
16 ment process and justification of the proposed
17 procurement for its selection shall be included
18 in any proposed initiation of procurement activ-
19 ity for commercially developed crew transpor-
20 tation capabilities and services and shall be sub-
21 ject to review by the Committee on Commerce,
22 Science, and Transportation of the Senate and
23 the Committee on Science, Space, and Tech-
24 nology of the House of Representatives before
25 the initiation of any competitive process to pro-

1 cure the capabilities or services. In support of
2 the review by the committees, the Comptroller
3 General shall undertake an assessment of the
4 proposed procurement process and provide a re-
5 port to the committees not later than 90 days
6 after the date on which the Administrator pro-
7 vides the description and justification to the
8 committees.

9 “(3) USE OF GOVERNMENT-SUPPLIED CAPA-
10 BILITIES AND INFRASTRUCTURE.—In evaluating any
11 proposed development activity for commercially de-
12 veloped crew or cargo launch capabilities, the Ad-
13 ministrator shall identify the anticipated contribu-
14 tion of Government personnel, expertise, tech-
15 nologies, and infrastructure to be utilized in support
16 of design, development, or operations of the capabili-
17 ties. This assessment shall include a clear delineation
18 of the full requirements for the commercial crew
19 service (including the contingency for crew rescue).
20 The Administrator shall include details and associ-
21 ated costs of such support as part of any proposed
22 development initiative for the procurement of com-
23 mercially developed crew or cargo launch capabilities
24 or services.

1 “(4) FLIGHT DEMONSTRATION AND READINESS
2 REQUIREMENTS.—The Administrator shall establish
3 appropriate milestones and minimum performance
4 objectives to be achieved before authority is granted
5 to proceed to the procurement of commercially devel-
6 oped crew transportation capabilities or services.
7 The guidelines shall include a procedure to provide
8 independent assurance of flight safety and flight
9 readiness before the authorization of United States
10 government personnel to participate as crew onboard
11 any commercial launch vehicle developed pursuant to
12 this section.

13 “(5) COMMERCIAL CREW RESCUE CAPABILI-
14 TIES.—The provision of a commercial capability to
15 provide International Space Station crew services
16 shall include crew rescue requirements, and shall be
17 undertaken through the procurement process initi-
18 ated in conformance with this section. In the event
19 such development is initiated, the Administrator
20 shall make available any relevant government-owned
21 intellectual property deriving from the development
22 of a multipurpose crew vehicle authorized by this
23 section and sections 71522 and 71523 of this title
24 to commercial entities involved with such crew res-
25 cue capability development which shall be relevant to

1 the design of a crew rescue capability. In addition,
2 the Administrator shall seek to ensure that contracts
3 for development of the multipurpose crew vehicle
4 contain provisions for the licensing of relevant intel-
5 lectual property to participating commercial pro-
6 viders of any crew rescue capability development un-
7 dertaken pursuant to this section. If 1 or more con-
8 tractors involved with development of the multipur-
9 pose crew vehicle seek to compete in development of
10 a commercial crew service with crew rescue capa-
11 bility, separate legislative authority must be enacted
12 to enable the Administrator to provide funding for
13 any modifications of the multipurpose crew vehicle
14 necessary to fulfill the International Space Station
15 crew rescue function.

16 **“§ 51703. Commercial Crew Program**

17 “(a) OBJECTIVE.—The objective of the Commercial
18 Crew Program shall be to assist in the development and
19 certification of commercially provided transportation
20 that—

21 “(1) can carry United States government astro-
22 nauts (meaning a United States government astro-
23 naut as defined in section 50902 of this title, except
24 it does not include an individual who is an inter-
25 national partner astronaut) safely, reliably, and

1 affordably to and from the International Space Sta-
2 tion;

3 “(2) can serve as a crew rescue vehicle; and

4 “(3) can accomplish the goals stated in para-
5 graphs (1) and (2) as soon as practicable.

6 “(b) PRIMARY CONSIDERATION.—The objective de-
7 scribed in subsection (a) shall be the primary consider-
8 ation in the acquisition strategy for the Commercial Crew
9 Program.

10 “(c) SAFETY.—

11 “(1) IN GENERAL.—The Administrator shall
12 protect the safety of government astronauts (as de-
13 fined in section 50902 of this title) by ensuring that
14 each commercially provided transportation system
15 under this section meets all applicable human rating
16 requirements in accordance with section 51702(1) of
17 this title.

18 “(2) LESSONS LEARNED.—Consistent with the
19 findings and recommendations of the Columbia Acci-
20 dent Investigation Board, the Administration shall
21 ensure that safety and the minimization of the prob-
22 ability of loss of crew are the critical priorities of the
23 Commercial Crew Program.

24 “(d) COST MINIMIZATION.—The Administrator shall
25 strive through the competitive selection process to mini-

1 mize the life cycle cost to the Administration through the
 2 planned period of commercially provided crew transpor-
 3 tation services.

4 **“§ 51704. Policy regarding fair and open competition**
 5 **for space transportation services**

6 “It is the policy of the United States that, to foster
 7 the competitive development, operation, improvement, and
 8 commercial availability of space transportation services,
 9 and to minimize the life cycle cost to the Administration,
 10 the Administrator shall procure services for Federal Gov-
 11 ernment access to and return from the International
 12 Space Station, whenever practicable, via fair and open
 13 competition for well-defined, milestone-based, Federal Ac-
 14 quisition Regulation-based contracts under section
 15 71511(a) of this title.

16 **“§ 51705. Transparency**

17 “The Administrator shall, to the greatest extent prac-
 18 ticable and in a manner that does not add costs or sched-
 19 ule delays to the program, ensure all Commercial Crew
 20 Program and Commercial Resupply Services Program pro-
 21 viders provide evidence-based support for their costs and
 22 schedules.”.

23 (u) REVISION OF SECTION 60304.—

24 (1) REVISION OF SECTION.—Section 60304 of
 25 title 51, United States Code, is amended—

1 (A) in the section heading, by striking
 2 **“Program evaluation”** and inserting **“Ad-**
 3 **visory committee”**;

4 (B) in subsection (a), by striking the sub-
 5 section designation “(a)” and the subsection
 6 heading “ADVISORY COMMITTEE.—”; and

7 (C) by striking subsection (b).

8 (2) CONFORMING AMENDMENT.—The chapter
 9 table of contents of chapter 603 of title 51, United
 10 States Code, is amended by striking the item relat-
 11 ing to section 60304 and inserting the following:

“60304. Advisory committee.”.

12 (v) ENACTMENT OF SECTIONS 60507 THROUGH
 13 60510.—

14 (1) CHAPTER TABLE OF CONTENTS.—The
 15 chapter table of contents of chapter 605 of title 51,
 16 United States Code, is amended by adding at the
 17 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.”.

18 (2) ENACTMENT OF SECTIONS.—Chapter 605
 19 of title 51, United States Code, is amended by add-
 20 ing at the end the following:

1 **“§ 60507. Interagency collaboration implementation**
2 **approach**

3 “The Director of the Office of Science and Tech-
4 nology Policy shall establish a mechanism to ensure great-
5 er coordination of the research, operations, and activities
6 relating to civilian Earth observation of Federal agencies,
7 including the Administration, that have active programs
8 that contribute either directly or indirectly to those areas.
9 The mechanism should include the development of a stra-
10 tegic implementation plan that is updated at least every
11 3 years with a process for external independent advisory
12 input. The strategic implementation plan should include—

13 “(1) a description of the responsibilities of the
14 various Federal agency roles in Earth observations;

15 “(2) recommended cost-sharing and procure-
16 ment arrangements between Federal agencies and
17 other entities, including international arrangements;
18 and

19 “(3) a plan for ensuring the provision of sus-
20 tained, long-term space-based climate observations.

21 **“§ 60508. Transitioning experimental research to op-**
22 **erations**

23 “Based on the implementation plan provided to Con-
24 gress in March 2011, the Administrator shall coordinate
25 with the Administrator of the National Oceanic and At-
26 mospheric Administration and the Director of the United

1 States Geological Survey to establish a formal mechanism
2 that plans, coordinates, and supports the transitioning of
3 the research findings, assets, and capabilities of the Ad-
4 ministration to the operations of the National Oceanic and
5 Atmospheric Administration and the United States Geo-
6 logical Survey. In defining the mechanism, the Adminis-
7 tration should consider the establishment of a formal or
8 informal interagency transition office.

9 **“§ 60509. Decadal Survey missions implementation**
10 **for Earth observation**

11 “The Administrator shall undertake to implement, as
12 appropriate, missions identified in the National Research
13 Council’s Earth Science Decadal Survey within the scope
14 of the funds authorized for the Earth Science Mission Di-
15 rectorate.

16 **“§ 60510. Instrument testbeds and venture class mis-**
17 **sions**

18 “The Administrator shall pursue innovative ways to
19 fly instrument-level payloads for early demonstration or
20 as co-manifested payloads. Congress encourages the use
21 of the International Space Station as an accessible plat-
22 form for the conduct of such activities. Additionally, in
23 order to address the cost and schedule challenges associ-
24 ated with large flight systems, the Administrator should

1 pursue smaller systems to the extent practicable and war-
 2 ranted.”.

3 (w) REVISION OF CHAPTER 709.—

4 (1) CHAPTER TABLE OF CONTENTS.—The
 5 chapter table of contents of chapter 709 of title 51,
 6 United States Code, is amended by adding at the
 7 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 seg-
 ment.

“70911. Management of national laboratory.

“70912. Primary objectives of International Space Station program.”.

8 (2) TECHNICAL AMENDMENT TO SECTION
 9 70902.—Section 70902 of title 51, United States
 10 Code, is amended by striking “section 40904” and
 11 inserting “section 49904”.

12 (3) TECHNICAL AMENDMENT TO SECTION
 13 70903.—Section 70903(1) of title 51, United States
 14 Code, is amended by striking “section 40904” and
 15 inserting “section 49904”.

16 (4) TECHNICAL AMENDMENTS TO SECTION
 17 70904.—Section 70904 of title 51, United States
 18 Code, is amended—

19 (A) in subsection (b)(2), by striking “sec-
 20 tion 40904” and inserting “section 49904”;

21 (B) in subsection (b)(3), by striking “Com-
 22 mittee on Science and Technology” and insert-

1 ing “Committee on Science, Space, and Tech-
2 nology”; and

3 (C) in subsection (c)(2), by striking “Com-
4 mittee on Science and Technology” and insert-
5 ing “Committee on Science, Space, and Tech-
6 nology”.

7 (5) ENACTMENT OF SECTIONS 70908 THROUGH
8 70912.—Chapter 709 of title 51, United States Code,
9 is amended by adding at the end the following:

10 **“§ 70908. Continuation of the International Space**
11 **Station**

12 “(a) POLICY.—It shall be the policy of the United
13 States, in consultation with its international partners in
14 the International Space Station program, to support full
15 and complete utilization of the International Space Station
16 through at least September 30, 2030.

17 “(b) ACTIONS.—In furtherance of the policy set forth
18 in subsection (a), the Administration shall—

19 “(1) pursue international, commercial, and
20 intragovernmental means to maximize International
21 Space Station logistics supply, maintenance, and
22 operational capabilities, reduce risks to International
23 Space Station systems sustainability, and offset and
24 minimize United States operations costs relating to
25 the International Space Station;

1 “(2) utilize, to the extent practicable, the Inter-
2 national Space Station for the development of capa-
3 bilities and technologies needed for the future of
4 human space exploration beyond low-Earth orbit;
5 and

6 “(3) utilize, if practical and cost effective, the
7 International Space Station for Science Mission Di-
8 rectorate missions in low-Earth orbit.

9 **“§ 70909. Maximum utilization of the International**
10 **Space Station**

11 “(a) IN GENERAL.—With assembly of the Inter-
12 national Space Station complete, the Administration shall
13 take steps to maximize the productivity and use of the
14 International Space Station with respect to scientific and
15 technological research and development, advancement of
16 space exploration, and international collaboration.

17 “(b) ACTIONS.—In carrying out subsection (a), the
18 Administration shall, at a minimum, undertake the fol-
19 lowing:

20 “(1) INNOVATIVE USE OF U.S. SEGMENT.—The
21 United States segment of the International Space
22 Station, which has been designated as a national
23 laboratory, shall be developed, managed, and utilized
24 in a manner that enables the effective and innovative

1 use of the facility, as provided in section 70911 of
2 this title.

3 “(2) INTERNATIONAL COOPERATION.—

4 “(A) DEFINITION OF NEAR-EARTH
5 SPACE.—In this paragraph, the term ‘near-
6 Earth space’ means the region of space that in-
7 cludes low-Earth orbit and extends out to and
8 includes geo-synchronous orbit.

9 “(B) USE OF INTERNATIONAL SPACE STA-
10 TION.—The International Space Station shall
11 continue to be utilized as a key component of
12 international efforts to build missions and capa-
13 bilities that further the development of a
14 human presence beyond near-Earth space and
15 advance United States security and economic
16 goals. The Administrator shall actively seek
17 ways to encourage and enable the use of Inter-
18 national Space Station capabilities to support
19 those efforts.

20 “(3) DOMESTIC COLLABORATION.—The oper-
21 ations, management, and utilization of the Inter-
22 national Space Station shall be conducted in a man-
23 ner that provides opportunities for collaboration with
24 other research programs and objectives of the

1 United States Government in cooperation with com-
2 mercial suppliers, users, and developers.

3 **“§ 70910. Operation, maintenance, and maximum uti-**
4 **lization of United States segment**

5 “(a) IN GENERAL.—The Administrator shall take all
6 actions necessary to ensure the safe and effective oper-
7 ation, maintenance, and maximum utilization of the
8 United States segment of the International Space Station
9 through at least September 30, 2030.

10 “(b) PLANNING, MANAGEMENT, AND SUPPORT.—
11 Utilization of research facilities and capabilities aboard
12 the International Space Station (other than exploration-
13 related research and technology development facilities and
14 capabilities, and associated ground support and logistics)
15 shall be planned, managed, and supported as provided in
16 section 70911 of this title. Exploration-related research
17 and technology development facilities, capabilities, and as-
18 sociated ground support and logistics shall be planned,
19 managed, and supported by the appropriate Administra-
20 tion organizations and officials in a manner that does not
21 interfere with other activities under section 70911 of this
22 title.

1 **“§ 70911. Management of national laboratory**

2 “(a) COOPERATIVE AGREEMENT WITH NOT-FOR-
3 PROFIT ORGANIZATION FOR MANAGEMENT OF NATIONAL
4 LABORATORY.—

5 “(1) IN GENERAL.—The Administrator shall
6 provide initial financial assistance and enter into a
7 cooperative agreement with an appropriate organiza-
8 tion that is exempt from taxation under section
9 501(c)(3) of the Internal Revenue Code of 1986 (26
10 U.S.C. 501(c)(3)) to manage the activities of the
11 International Space Station national laboratory in
12 accordance with this section.

13 “(2) QUALIFICATIONS.—The organization with
14 which the Administrator enters into the cooperative
15 agreement shall develop the capabilities to imple-
16 ment research and development projects utilizing the
17 International Space Station national laboratory and
18 to otherwise manage the activities of the Inter-
19 national Space Station national laboratory.

20 “(3) PROHIBITION ON OTHER ACTIVITIES.—
21 The cooperative agreement shall require the organi-
22 zation entering into the agreement to engage exclu-
23 sively in activities relating to the management of the
24 International Space Station national laboratory and
25 activities that promote its long-term research and
26 development mission as required by this section,

1 without any other organizational objectives or re-
2 sponsibilities on behalf of the organization or any
3 parent organization or other entity.

4 “(b) ADMINISTRATION LIAISON.—

5 “(1) DESIGNATION.—The Administrator shall
6 designate an official or employee of the Space Oper-
7 ations Mission Directorate of the Administration to
8 act as liaison between the Administration and the
9 organization with which the Administrator enters
10 into a cooperative agreement under subsection (a)
11 with regard to the management of the International
12 Space Station national laboratory.

13 “(2) CONSULTATION WITH LIAISON.—The coop-
14 erative agreement shall require the organization en-
15 tering into the agreement to carry out its respon-
16 sibilities under the agreement in cooperation and
17 consultation with the official or employee designated
18 under paragraph (1).

19 “(c) PLANNING AND COORDINATION OF NATIONAL
20 LABORATORY RESEARCH ACTIVITIES.—The Adminis-
21 trator shall provide initial financial assistance to the orga-
22 nization with which the Administrator enters into a coop-
23 erative agreement under subsection (a), in order for the
24 organization to initiate the following:

1 “(1) Planning and coordination of the Inter-
2 national Space Station national laboratory research
3 activities.

4 “(2) Development and implementation of guide-
5 lines, selection criteria, and flight support require-
6 ments for non-Administration scientific utilization of
7 International Space Station research capabilities and
8 facilities available in United States-owned modules
9 of the International Space Station or in partner-
10 owned facilities of the International Space Station
11 allocated to United States utilization by inter-
12 national agreement.

13 “(3) Interaction with and integration of the
14 International Space Station National Laboratory
15 Advisory Committee established under section 70906
16 of this title with the governance of the organization,
17 and review of recommendations provided by that
18 Committee regarding agreements with non-Adminis-
19 tration departments and agencies of the United
20 States Government, academic institutions and con-
21 sortia, and commercial entities leading to the utiliza-
22 tion of the International Space Station national lab-
23 oratory facilities.

24 “(4) Coordination of transportation require-
25 ments in support of the International Space Station

1 national laboratory research and development objec-
2 tives, including provision for delivery of instruments,
3 logistics support, and related experiment materials,
4 and provision for return to Earth of collected sam-
5 ples, materials, and scientific instruments in need of
6 replacement or upgrade.

7 “(5) Cooperation with the Administration, other
8 departments and agencies of the United States Gov-
9 ernment, the States, and commercial entities in en-
10 suring the enhancement and sustained operations of
11 non-exploration-related research payload ground
12 support facilities for the International Space Sta-
13 tion, including the Space Life Sciences Laboratory,
14 the Space Station Processing Facility, and the Pay-
15 load Operations Integration Center.

16 “(6) Development and implementation of sci-
17 entific outreach and education activities designed to
18 ensure effective utilization of International Space
19 Station research capabilities, including the conduct
20 of scientific assemblies, conferences, and other fora
21 for the presentation of research findings, methods,
22 and mechanisms for the dissemination of non-re-
23 stricted research findings and the development of
24 educational programs, course supplements, and
25 interaction with educational programs at all grade

1 levels, including student-focused research opportuni-
2 ties for conduct of research in the International
3 Space Station national laboratory facilities.

4 “(7) Other matters relating to the utilization of
5 the International Space Station national laboratory
6 facilities for research and development as the Ad-
7 ministrator considers appropriate.

8 “(d) RESEARCH CAPACITY ALLOCATION AND INTE-
9 GRATION OF RESEARCH PAYLOADS.—

10 “(1) ALLOCATION OF INTERNATIONAL SPACE
11 STATION RESEARCH CAPACITY.—The International
12 Space Station national laboratory managed experi-
13 ments shall be guaranteed access to, and utilization
14 of, not less than 50 percent of the United States re-
15 search capacity allocation, including power, cold
16 stowage, and requisite crew time onboard the Inter-
17 national Space Station through at least September
18 30, 2030. Access to the International Space Station
19 research capacity includes provision for the adequate
20 upmass and downmass capabilities to utilize the
21 International Space Station research capacity, as
22 available. The Administrator may allocate additional
23 capacity to the International Space Station national
24 laboratory should such capacity be in excess of Ad-
25 ministration research requirements.

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

1 “(3) RESEARCH PRIORITIES AND ENHANCED
 2 CAPACITY.—The organization with which the Admin-
 3 istrator enters into the cooperative agreement shall
 4 consider recommendations of the National Acad-
 5 emies Decadal Survey on Biological and Physical
 6 Sciences in Space in establishing research priorities
 7 and in developing proposed enhancements of re-
 8 search capacity and opportunities for the Inter-
 9 national Space Station national laboratory.

10 “(4) RESPONSIBILITY FOR RESEARCH PAY-
 11 LOAD.—The Administration shall retain its roles and
 12 responsibilities in providing research payload phys-
 13 ical, analytical, and operations integration during
 14 pre-flight, post-flight, transportation, and orbital
 15 phases essential to ensure safe and effective flight
 16 readiness and vehicle integration of research activi-
 17 ties approved and prioritized by the organization
 18 with which the Administrator enters into the cooper-
 19 ative agreement and the official or employee des-
 20 ignated under subsection (b).

21 **“§ 70912. Primary objectives of International Space**
 22 **Station program**

23 “The primary objectives of the International Space
 24 Station program shall be—

1 “(1) to achieve the long term goal and objec-
 2 tives under section 71512 of this title; and

3 “(2) to pursue a research program that ad-
 4 vances knowledge and provides other benefits to the
 5 Nation.”.

6 (x) REVISION OF SECTION 71102.—Section 71102(1)
 7 of title 51, United States Code, is amended by striking
 8 “attaching a tracking device,” and inserting “attaching a
 9 tracking device to,”.

10 (y) ENACTMENT OF CHAPTER 715.—Title 51, United
 11 States Code, is amended as follows:

12 (1) CONTENT.—Title 51, United States Code,
 13 is amended by adding after chapter 713 the fol-
 14 lowing:

15 **“Chapter 715—HUMAN SPACE**
 16 **FLIGHT AND EXPLORATION**

“SUBCHAPTER I—GENERAL PROVISIONS

“Sec.

“71501. Definitions.

“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.

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.

1 **“Subchapter II—POLICY, GOALS,**
2 **AND OBJECTIVES**

3 **“§ 71511. Human space flight policy**

4 “(a) USE OF NON-UNITED STATES HUMAN SPACE
5 FLIGHT TRANSPORTATION SERVICES.—

6 “(1) DEFINITIONS.—In this subsection:

7 “(A) COMMERCIAL PROVIDER.—The term
8 ‘commercial provider’ means any person pro-
9 viding human space flight transportation serv-
10 ices, primary control of which is held by persons
11 other than the Federal Government, a State or
12 local government, or a foreign government.

13 “(B) QUALIFIED FOREIGN ENTITY.—The
14 term ‘qualified foreign entity’ means a foreign
15 entity that is in compliance with all applicable
16 safety standards and is not prohibited from
17 providing space transportation services under
18 other law.

19 “(C) UNITED STATES COMMERCIAL PRO-
20 VIDER.—The term ‘United States commercial
21 provider’ means a commercial provider, orga-
22 nized under the laws of the United States or of
23 a State, that is more than 50 percent owned by
24 United States nationals.

1 “(2) IN GENERAL.—The Federal Government
2 may not acquire human space flight transportation
3 services from a foreign entity unless—

4 “(A) no United States Government-oper-
5 ated human space flight capability is available;

6 “(B) no United States commercial provider
7 is available; and

8 “(C) it is a qualified foreign entity.

9 “(3) ARRANGEMENTS WITH FOREIGN ENTI-
10 TIES.—Nothing in this subsection shall prevent the
11 Administrator from negotiating or entering into
12 human space flight transportation arrangements
13 with foreign entities to ensure safety of flight and
14 continued International Space Station operations.

15 “(b) UNITED STATES HUMAN SPACE FLIGHT CAPA-
16 BILITIES.—Congress reaffirms the policy stated in section
17 70501(a) of this title that the United States shall main-
18 tain an uninterrupted capability for human space flight
19 and operations in low-Earth orbit, and beyond, as an es-
20 sential instrument of national security and of the capacity
21 to ensure continued United States participation and lead-
22 ership in the exploration and utilization of space.

1 **“§ 71512. Goals and objectives**

2 “(a) LONG-TERM GOALS.—The long-term goals of
3 the human space flight and exploration efforts of the Ad-
4 ministration shall be—

5 “(1) to expand permanent human presence be-
6 yond low-Earth orbit and to do so, where practical,
7 in a manner involving international, academic, and
8 industry partners;

9 “(2) crewed missions and progress toward
10 achieving the goal in paragraph (1) to enable the po-
11 tential for subsequent human exploration and the ex-
12 tension of human presence throughout the solar sys-
13 tem; and

14 “(3) to enable a capability to extend human
15 presence, including potential human habitation on
16 another celestial body and a thriving space economy
17 in the 21st century.

18 “(b) KEY OBJECTIVES.—The key objectives of the
19 United States for human expansion into space shall be—

20 “(1) to sustain the capability for long-duration
21 presence in low-Earth orbit, initially through con-
22 tinuation of the International Space Station and full
23 utilization of the United States segment of the
24 International Space Station as a national laboratory,
25 and through assisting and enabling an expanded
26 commercial presence in, and access to, low-Earth

1 orbit, as elements of a low-Earth orbit infrastruc-
2 ture;

3 “(2) to determine whether humans can live for
4 extended periods in space with decreasing reliance
5 on Earth, starting with utilization of low-Earth orbit
6 infrastructure, to—

7 “(A) identify potential roles that space re-
8 sources such as energy and materials can play;

9 “(B) meet national and global needs and
10 challenges such as potential cataclysmic threats;
11 and

12 “(C) explore the viability of and lay the
13 foundation for sustainable economic activities in
14 space;

15 “(3) to maximize the role that human explo-
16 ration of space can play in—

17 “(A) advancing overall knowledge of the
18 universe;

19 “(B) supporting United States national
20 and economic security and the United States
21 global competitive posture; and

22 “(C) inspiring young people in their edu-
23 cational pursuits;

24 “(4) to build on the cooperative and mutually
25 beneficial framework established by the International

1 Space Station partnership agreements and experi-
2 ence in developing and undertaking programs and
3 meeting objectives designed to realize the goal of
4 human space flight set forth in subsection (a); and
5 “(5) to achieve human exploration of Mars and
6 beyond through the prioritization of those tech-
7 nologies and capabilities best suited for such a mis-
8 sion in accordance with the stepping stone approach
9 to exploration under section 70504 of this title.

10 **“Subchapter III—EXPANSION OF**
11 **HUMAN SPACE FLIGHT BE-**
12 **YOND THE INTERNATIONAL**
13 **SPACE STATION AND LOW-**
14 **EARTH ORBIT**

15 **“§ 71521. Space Launch System as follow-on launch**
16 **vehicle to the space shuttle**

17 “(a) POLICY.—It is the policy of the United States
18 that the Administration develop a Space Launch System
19 as a follow-on to the space shuttle that can access cis-
20 lunar space and the regions of space beyond low-Earth
21 orbit in order to enable the United States to participate
22 in global efforts to access and develop that increasingly
23 strategic region.

24 “(b) INITIATION OF DEVELOPMENT.—

1 “(1) IN GENERAL.—As soon as practicable
2 after October 11, 2010, the Administrator shall ini-
3 tiate development of a Space Launch System meet-
4 ing the minimum capability requirements specified
5 in subsection (c).

6 “(2) MODIFICATION OF CURRENT CON-
7 TRACTS.—In order to limit the Administration’s ter-
8 mination liability costs and support critical capabili-
9 ties, the Administrator shall, to the extent prac-
10 ticable, extend or modify existing (as of October 11,
11 2010) vehicle development and associated contracts
12 necessary to meet the requirement in paragraph (1),
13 including contracts for ground testing of solid rocket
14 motors, if necessary, to ensure their availability for
15 development of the Space Launch System.

16 “(c) MINIMUM CAPABILITY REQUIREMENTS.—

17 “(1) IN GENERAL.—The Space Launch System
18 developed pursuant to subsection (b) shall be de-
19 signed to have, at a minimum, the following:

20 “(A) The initial capability of the core ele-
21 ments, without an upper stage, of lifting pay-
22 loads weighing between 70 and 100 tons into
23 low-Earth orbit in preparation for transit for
24 missions beyond low-Earth orbit.

1 “(B) The capability to carry an integrated
2 upper Earth departure stage bringing the total
3 lift capability of the Space Launch System to
4 130 tons or more.

5 “(C) The capability to lift the multipur-
6 pose crew vehicle.

7 “(D) The capability to serve as a backup
8 system for supplying and supporting Inter-
9 national Space Station cargo delivery require-
10 ments or crew delivery requirements not other-
11 wise met by available commercial or partner-
12 supplied vehicles.

13 “(E) The capacity for efficient and timely
14 evolution, including the incorporation of new
15 technologies, competition of sub-elements, and
16 commercial operations.

17 “(2) FLEXIBILITY.—The Space Launch System
18 shall be designed from inception as a fully integrated
19 vehicle capable of carrying a total payload of 130
20 tons or more into low-Earth orbit in preparation for
21 transit for missions beyond low-Earth orbit. The
22 Space Launch System shall, to the extent prac-
23 ticable, incorporate capabilities for evolutionary
24 growth to carry heavier payloads. Developmental
25 work and testing of the core elements and the upper

1 stage should proceed in parallel subject to appropria-
2 tions. Priority should be placed on the core elements
3 with the goal for operational capability for the core
4 elements not later than December 31, 2016.

5 “(3) TRANSITION NEEDS.—The Administrator
6 shall ensure that critical skills and capabilities are
7 retained, modified, and developed, as appropriate, in
8 areas relating to solid and liquid engines, large di-
9 ameter fuel tanks, rocket propulsion, and other
10 ground test capabilities for an effective transition to
11 the follow-on Space Launch System.

12 **“§ 71522. Multipurpose crew vehicle**

13 “(a) INITIATION OF DEVELOPMENT.—

14 “(1) IN GENERAL.—The Administrator shall
15 continue the development of a multipurpose crew ve-
16 hicle to be available as soon as practicable, and no
17 later than for use with the Space Launch System.
18 The vehicle shall continue to advance development of
19 the human safety features, designs, and systems in
20 the Orion project.

21 “(2) GOAL FOR OPERATIONAL CAPABILITY.—It
22 shall be the goal to achieve full operational capa-
23 bility for the transportation vehicle developed pursu-
24 ant to this subsection by not later than December
25 31, 2016. For purposes of meeting such goal, the

1 Administrator may undertake a test of the transpor-
2 tation vehicle at the International Space Station be-
3 fore that date.

4 “(b) MINIMUM CAPABILITY REQUIREMENTS.—The
5 multipurpose crew vehicle developed pursuant to sub-
6 section (a) shall be designed to have, at a minimum, the
7 following:

8 “(1) The capability to serve as the primary
9 crew vehicle for missions beyond low-Earth orbit.

10 “(2) The capability to conduct regular in-space
11 operations, such as rendezvous, docking, and extra-
12 vehicular activities, in conjunction with payloads de-
13 livered by the Space Launch System developed pur-
14 suant to section 71521 of this title, or other vehicles,
15 in preparation for missions beyond low-Earth orbit
16 or servicing of assets described in section 71543 of
17 this title, or other assets in cis-lunar space.

18 “(3) The capability to provide an alternative
19 means of delivery of crew and cargo to the Inter-
20 national Space Station, in the event other vehicles,
21 whether commercial vehicles or partner-supplied ve-
22 hicles, are unable to perform that function.

23 “(4) The capacity for efficient and timely evo-
24 lution, including the incorporation of new tech-

1 nologies, competition of sub-elements, and commer-
2 cial operations.

3 **“§ 71523. Utilization of existing workforce and assets**
4 **in development of Space Launch System**
5 **and multipurpose crew vehicle**

6 “(a) IN GENERAL.—In developing the Space Launch
7 System pursuant to section 71521 of this title and the
8 multipurpose crew vehicle pursuant to section 71522 of
9 this title, the Administrator shall, to the extent prac-
10 ticable, utilize—

11 “(1) existing (as of October 11, 2010) con-
12 tracts, investments, workforce, industrial base, and
13 capabilities from the space shuttle and Orion and
14 Ares 1 projects, including—

15 “(A) spacesuit development activities for
16 application to, and coordinated development of,
17 a multipurpose crew vehicle suit and associated
18 life-support requirements with potential devel-
19 opment of standard Administration-certified
20 suit and life support systems for use in alter-
21 native commercially developed crew transpor-
22 tation systems; and

23 “(B) space shuttle-derived components and
24 Ares 1 components that use existing (as of Oc-
25 tober 11, 2010) United States propulsion sys-

1 tems, including liquid fuel engines, external
2 tank or tank-related capability, and solid rocket
3 motor engines; and

4 “(2) associated testing facilities in existence or
5 under construction as of October 11, 2010.

6 “(b) DISCHARGE OF REQUIREMENTS.—In meeting
7 the requirements of subsection (a), the Administrator—

8 “(1) shall, to the extent practicable, utilize
9 ground-based manufacturing capability, ground test-
10 ing activities, launch and operations infrastructure,
11 and workforce expertise;

12 “(2) shall, to the extent practicable, minimize
13 the modification and development of ground infra-
14 structure and maximize the utilization of existing (as
15 of October 11, 2010) software, vehicle, and mission
16 operations processes;

17 “(3) shall complete construction and activation
18 of the A–3 test stand with a completion goal of Sep-
19 tember 30, 2013;

20 “(4) may procure, develop, and flight test appli-
21 cable components; and

22 “(5) shall take appropriate actions to ensure
23 timely and cost-effective development of the Space
24 Launch System and the multipurpose crew vehicle,
25 including the use of a procurement approach that in-

1 corporates adequate and effective oversight, the fa-
2 cilitation of contractor efficiencies, and the stream-
3 lining of contract and procurement requirements.

4 “(c) CONTINUATION OF CONTRACTOR SUPPORT.—
5 The Administrator may not terminate any contract that
6 provides the system transitions necessary for shuttle-de-
7 rived hardware to be used on the Space Launch System
8 described in section 71521 of this title or the multipurpose
9 crew vehicle described in section 71522 of this title.

10 **“§ 71524. Launch support and infrastructure mod-
11 ernization program**

12 “(a) IN GENERAL.—The Administrator shall carry
13 out a program the primary purpose of which is to prepare
14 infrastructure at the Kennedy Space Center that is needed
15 to enable processing and launch of the Space Launch Sys-
16 tem. Vehicle interfaces and other ground processing and
17 payload integration areas should be simplified to minimize
18 overall costs, enhance safety, and complement the purpose
19 of this section.

20 “(b) ELEMENTS.—The program required by this sec-
21 tion shall include—

22 “(1) investments to improve civil and national
23 security operations at the Kennedy Space Center, to
24 enhance the overall capabilities of the Center, and to

1 reduce the long-term cost of operations and mainte-
2 nance;

3 “(2) measures to provide multi-vehicle support,
4 improvements in payload processing, and partnering
5 at the Kennedy Space Center; and

6 “(3) other measures that the Administrator
7 considers appropriate, including investments to im-
8 prove launch infrastructure at Administration flight
9 facilities scheduled to launch cargo to the Inter-
10 national Space Station under the program to develop
11 commercial cargo transportation capabilities.

12 **“§ 71525. Development of technologies and in-space**
13 **capabilities for beyond near-Earth space**
14 **missions**

15 “(a) DEVELOPMENT AUTHORIZED.—The Adminis-
16 trator may initiate activities to develop the following:

17 “(1) Technologies identified as necessary ele-
18 ments of missions beyond low-Earth orbit.

19 “(2) In-space capabilities such as refueling and
20 storage technology, orbital transfer stages, innova-
21 tive in-space propulsion technology, communications,
22 and data management that facilitate a broad range
23 of users (including military and commercial).

24 “(3) Applications defining the architecture and
25 design of missions beyond low-Earth orbit.

1 “(4) Spacesuit development and associated life
2 support technology.

3 “(5) Flagship missions.

4 “(b) INVESTMENTS.—In developing technologies and
5 capabilities under subsection (a), the Administrator may
6 make investments in—

7 “(1) space technologies such as advanced pro-
8 pulsion, propellant depots, in situ resource utiliza-
9 tion, and robotic payloads or capabilities that enable
10 human missions beyond low-Earth orbit ultimately
11 leading to Mars;

12 “(2) a space-based transfer vehicle including
13 technologies described in paragraph (1) with an abil-
14 ity to conduct space-based operations that provide
15 capabilities—

16 “(A) to integrate with the Space Launch
17 System and other space-based systems;

18 “(B) to provide opportunities for in-space
19 servicing of and delivery to multiple space-based
20 platforms; and

21 “(C) to facilitate international efforts to
22 expand human presence to deep space destina-
23 tions;

24 “(3) advanced life support technologies and ca-
25 pabilities;

1 “(4) technologies and capabilities relating to in-
2 space power, propulsion, and energy systems;

3 “(5) technologies and capabilities relating to in-
4 space propellant transfer and storage;

5 “(6) technologies and capabilities relating to in
6 situ resource utilization; and

7 “(7) expanded research to understand the
8 greatest biological impediments to human deep space
9 missions, especially the radiation challenge.

10 “(c) UTILIZATION OF INTERNATIONAL SPACE STA-
11 TION AS TESTBED.—The Administrator may utilize the
12 International Space Station as a testbed for any tech-
13 nology or capability developed under subsection (a) in a
14 manner consistent with sections 70908 through 70911 of
15 this title.

16 “(d) COORDINATION.—The Administrator shall co-
17 ordinate development of technologies and capabilities
18 under this section through an overall Administration tech-
19 nology approach consistent with the plan required by sec-
20 tion 905 of the National Aeronautics and Space Adminis-
21 tration Authorization Act of 2010 (Public Law 111–267,
22 124 Stat. 2836), which outlines how the Administration’s
23 space technology program will meet the goal described in
24 section 40903 of this title, including an explanation of how

1 the plan will link to other mission-directorate technology
2 efforts.

3 **“Subchapter IV—SPACE SCIENCE**

4 **“§ 71541. Technology development**

5 “The Administrator shall ensure that the Science
6 Mission Directorate maintains a long-term technology de-
7 velopment program for space and Earth science. That ef-
8 fort should be coordinated with an overall Administration
9 technology investment approach consistent with the plan
10 required by section 905 of the National Aeronautics and
11 Space Administration Authorization Act of 2010 (Public
12 Law 111–267, 124 Stat. 2836), which outlines how the
13 Administration’s space technology program will meet the
14 goal described in section 40903 of this title, including an
15 explanation of how the plan will link to other mission-di-
16 rectorate technology efforts.

17 **“§ 71542. Suborbital research activities**

18 “(a) MANAGEMENT.—The Administrator shall des-
19 ignate an officer or employee of the Science Mission Direc-
20 torate to act as the responsible official for all Suborbital
21 Research in the Science Mission Directorate. The designee
22 shall be responsible for—

23 “(1) the development of short- and long-term
24 strategic plans for maintaining, renewing, and ex-
25 tending suborbital facilities and capabilities;

1 “(2) monitoring progress toward goals in the
2 plans; and

3 “(3) integration of suborbital activities and
4 workforce development within the Administration,
5 thereby ensuring the long-term recognition of their
6 combined value to the Directorate, to the Adminis-
7 tration, and to the Nation.

8 “(b) ESTABLISHMENT OF SUBORBITAL RESEARCH
9 PROGRAM.—The Administrator shall establish a Sub-
10 orbital Research Program within the Science Mission Di-
11 rectorate that shall include the use of sounding rockets,
12 aircraft, high altitude balloons, suborbital reusable launch
13 vehicles, and commercial launch vehicles to advance
14 science and train the next generation of scientists and en-
15 gineers in systems engineering and systems integration,
16 which are vital to maintaining critical skills in the aero-
17 space workforce. The program shall integrate existing (as
18 of October 11, 2010) suborbital research programs with
19 orbital missions at the discretion of the designated officer
20 or employee and shall emphasize the participation of un-
21 dergraduate and graduate students and post-doctoral re-
22 searchers when formulating announcements of oppor-
23 tunity.

24 “(c) ANNUAL REPORT.—The Administrator shall re-
25 port annually to the Committee on Commerce, Science,

1 and Transportation of the Senate and the Committee on
2 Science, Space, and Technology of the House of Rep-
3 resentatives on the number and type of suborbital missions
4 conducted in each fiscal year under this section and the
5 number of undergraduate and graduate students that par-
6 ticipated in the missions.

7 **“§ 71543. In-space servicing**

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

20 **“§ 71544. Ongoing restoration of radioisotope thermo-**
21 **electric generator material production**

22 “The Administrator shall, in coordination with the
23 Secretary of Energy, pursue a joint approach beginning
24 in fiscal year 2011 toward restarting and sustaining the
25 domestic production of radioisotope thermoelectric gener-

1 ator material for deep space and other science and explo-
2 ration missions. Funds authorized by the National Aero-
3 nautics and Space Administration Authorization Act of
4 2010 (Public Law 111–267, 124 Stat. 2805) for the Ad-
5 ministration shall be made available under a reimbursable
6 agreement with the Department of Energy for the purpose
7 of reestablishing facilities to produce fuel required for ra-
8 dioisotope thermoelectric generators to enable future mis-
9 sions.

10 **“§ 71545. Coordinated approach for robotic missions**

11 “The Administrator shall ensure that the Exploration
12 Systems Mission Directorate and the Space Operations
13 Mission Directorate coordinate with the Science Mission
14 Directorate on an overall approach and plan for inter-
15 agency and international collaboration on robotic missions
16 that are developed by the Administration or internation-
17 ally developed, including lunar, Lagrangian, near-Earth
18 orbit, and Mars spacecraft, such as the International
19 Lunar Network.

20 **“§ 71546. Near-Earth object survey and policy with**
21 **respect to threats posed**

22 “(a) POLICY REAFFIRMATION.—Congress reaffirms
23 the policy set forth in section 20102(g) of this title relat-
24 ing to surveying near-Earth asteroids and comets.

1 “(b) IMPLEMENTATION.—Consistent with section
2 71103 of this title, the Director of the Office of Science
3 and Technology Policy shall implement, before September
4 30, 2012, a policy for notifying Federal agencies and rel-
5 evant emergency response institutions of an impending
6 near-Earth object threat if near-term public safety is at
7 risk, and assign a Federal agency or agencies to be respon-
8 sible for protecting the United States and working with
9 the international community on such threats.”.

10 (2) CHAPTER HEADING TYPEFACE.—The chap-
11 ter heading of chapter 715 of title 51, United States
12 Code, as added by paragraph (1), is amended so
13 that the typeface of that chapter heading conforms
14 to the typeface of other chapter headings in title 51,
15 United States Code.

16 (3) CHAPTER TABLE OF CONTENTS TYPE-
17 FACE.—The chapter table of contents of chapter 715
18 of title 51, United States Code, as added by para-
19 graph (1), is amended so that the typeface of the
20 subchapter headings and the typeface of the sub-
21 chapter items conform to those appearing in other
22 chapter table of contents of title 51.

23 (4) SUBCHAPTER HEADING TYPEFACE.—The
24 subchapter headings for subchapters I through IV of
25 chapter 715 of title 51, United States Code, as

1 added by paragraph (1), are amended so that the
 2 typeface of those subchapter headings conforms to
 3 the typeface of subchapter headings in other chap-
 4 ters of title 51, United States Code.

5 (z) ENACTMENT OF CHAPTER 717.—Title 51, United
 6 States Code, is amended as follows:

7 (1) CONTENT.—Title 51, United States Code,
 8 as amended by subsection (y), is amended by adding
 9 after chapter 715 the following:

10 **“Chapter 717—ADVANCING**
 11 **HUMAN SPACE EXPLORATION**

“SUBCHAPTER I—GENERAL PROVISIONS

“Sec.

“71701. Definitions.

**“SUBCHAPTER II—ADVANCING HUMAN DEEP SPACE
EXPLORATION**

**“Part A—Assuring Core Capabilities for Explo-
ration**

“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 Direc-
torates 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.

“71765. Flight opportunities.

“71766. Space Act Agreements.

“Subchapter I—GENERAL PROVISIONS

§ 71701. Definitions

“In this chapter:

“(1) APPROPRIATE COMMITTEES OF CONGRESS.—The term ‘appropriate committees of Congress’ means—

“(A) the Committee on Commerce, Science, and Transportation of the Senate; and

“(B) the Committee on Science, Space, and Technology of the House of Representatives.

“(2) CIS-LUNAR SPACE.—The term ‘cis-lunar space’ means the region of space from the Earth out to and including the region around the surface of the Moon.

“(3) DEEP SPACE.—The term ‘deep space’ means the region of space beyond low-Earth orbit, to include cis-lunar space.

“(4) ORION.—The term ‘Orion’ means the multipurpose crew vehicle described under section 71522 of this title.

1 “(5) SPACE LAUNCH SYSTEM.—The term
2 ‘Space Launch System’ has the meaning given the
3 term in section 71501 of this title.

4 **“Subchapter II—ADVANCING**
5 **HUMAN DEEP SPACE EXPLO-**
6 **RATION**

7 **“Part A—Assuring Core**
8 **Capabilities for Exploration**

9 **“§ 71711. Space launch system, Orion, and explo-**
10 **ration ground systems**

11 “(a) REAFFIRMATION.—Congress reaffirms the pol-
12 icy and minimum capability requirements for the Space
13 Launch System under section 71521 of this title.

14 “(b) CONTINUED DEVELOPMENT OF FULLY INTE-
15 GRATED SPACE LAUNCH SYSTEM.—The Administrator
16 shall continue the development of the fully integrated
17 Space Launch System, including an upper stage needed
18 to go beyond low-Earth orbit, in order to safely enable
19 human space exploration of the Moon, Mars, and beyond
20 over the course of the next century as required in section
21 71521(c) of this title.

22 “(c) EXPLORATION MISSIONS.—The Administrator
23 shall continue development of—

1 “(1) an uncrewed exploration mission to dem-
2 onstrate the capability of both the Space Launch
3 System and Orion as an integrated system by 2018;

4 “(2) subject to applicable human rating proc-
5 esses and requirements, a crewed exploration mis-
6 sion to demonstrate the Space Launch System, in-
7 cluding the Core Stage and Exploration Upper
8 Stages, by 2021;

9 “(3) subsequent missions beginning with
10 Artemis III at operational flight rate sufficient to
11 maintain safety and operational readiness using the
12 Space Launch System and Orion to extend into cis-
13 lunar space and eventually to Mars; and

14 “(4) a deep space habitat as a key element in
15 a deep space exploration architecture along with the
16 Space Launch System and Orion.

17 “(d) OTHER USES.—The Administrator shall assess
18 the utility of the Space Launch System for use by the
19 science community and for other Federal Government
20 launch needs, including consideration of overall cost and
21 schedule savings from reduced transit times and increased
22 science returns enabled by the unique capabilities of the
23 Space Launch System.

“Part B—Journey to Mars

2 “§ 71721. Human exploration roadmap

3 “(a) IN GENERAL.—The Administrator shall develop
4 a human exploration roadmap, including a critical decision
5 plan, to expand human presence beyond low-Earth orbit
6 to the surface of Mars and beyond, considering potential
7 interim destinations such as cis-lunar space and the moons
8 of Mars.

9 “(b) SCOPE.—The human exploration roadmap shall
10 include—

11 “(1) an integrated set of exploration, science,
12 and other goals and objectives of a United States
13 human space exploration program to achieve the
14 long-term goal of human missions near or on the
15 surface of Mars in the 2030s;

16 “(2) opportunities for international, academic,
17 and industry partnerships for exploration-related
18 systems, services, research, and technology if those
19 opportunities provide cost-savings, accelerate pro-
20 gram schedules, or otherwise benefit the goals and
21 objectives developed under paragraph (1);

22 “(3) sets and sequences of precursor missions
23 in cis-lunar space and other missions or activities
24 necessary—

1 “(A) to demonstrate the proficiency of the
2 capabilities and technologies identified under
3 paragraph (4); and

4 “(B) to meet the goals and objectives de-
5 veloped under paragraph (1), including antici-
6 pated timelines and missions for the Space
7 Launch System and Orion;

8 “(4) an identification of the specific capabilities
9 and technologies, including the Space Launch Sys-
10 tem, Orion, a deep space habitat, and other capabili-
11 ties, that facilitate the goals and objectives developed
12 under paragraph (1);

13 “(5) a description of how cis-lunar elements,
14 objectives, and activities advance the human explo-
15 ration of Mars;

16 “(6) an assessment of potential human health
17 and other risks, including radiation exposure;

18 “(7) mitigation plans, whenever possible, to ad-
19 dress the risks identified in paragraph (6);

20 “(8) a description of those technologies already
21 under development across the Federal Government
22 or by other entities that facilitate the goals and ob-
23 jectives developed under paragraph (1);

24 “(9) a specific process for the evolution of the
25 capabilities of the fully integrated Orion with the

1 Space Launch System and a description of how
2 these systems facilitate the goals and objectives de-
3 veloped under paragraph (1) and demonstrate the
4 capabilities and technologies described in paragraph
5 (4);

6 “(10) a description of the capabilities and tech-
7 nologies that need to be demonstrated or research
8 data that could be gained through the utilization of
9 the International Space Station and the status of
10 the development of such capabilities and tech-
11 nologies;

12 “(11) a framework for international cooperation
13 in the development of all capabilities and tech-
14 nologies identified under this section, including an
15 assessment of the risks posed by relying on inter-
16 national partners for capabilities and technologies on
17 the critical path of development;

18 “(12) a process for partnering with nongovern-
19 mental entities using Space Act Agreements or other
20 acquisition instruments for future human space ex-
21 ploration; and

22 “(13) information on the phasing of planned in-
23 termediate destinations, Mars mission risk areas and
24 potential risk mitigation approaches, technology re-
25 quirements and phasing of required technology de-

1 velopment activities, the management strategy to be
2 followed, related International Space Station activi-
3 ties, planned international collaborative activities,
4 potential commercial contributions, and other activi-
5 ties relevant to the achievement of the goal estab-
6 lished in this section.

7 “(c) CONSIDERATIONS.—In developing the human ex-
8 ploration roadmap, the Administrator shall consider—

9 “(1) using key exploration capabilities, namely
10 the Space Launch System and Orion;

11 “(2) using existing commercially available tech-
12 nologies and capabilities or those technologies and
13 capabilities being developed by industry for commer-
14 cial purposes;

15 “(3) establishing an organizational approach to
16 ensure collaboration and coordination among the Ad-
17 ministration’s mission directorates under section
18 71761 of this title, when appropriate, including to
19 collect and return to Earth a sample from the Mar-
20 tian surface;

21 “(4) building upon the initial uncrewed mission,
22 Artemis I, and first crewed mission, Artemis II, of
23 the Space Launch System and Orion to establish a
24 sustainable cadence of missions extending human ex-

1 ploration missions into cis-lunar space, including an-
2 ticipated timelines and milestones;

3 “(5) developing the robotic and precursor mis-
4 sions and activities that will demonstrate, test, and
5 develop key technologies and capabilities essential
6 for achieving human missions to Mars, including
7 long-duration human operations beyond low-Earth
8 orbit, space suits, solar electric propulsion, deep
9 space habitats, environmental control life support
10 systems, Mars lander and ascent vehicle, entry, de-
11 scend, landing, ascent, Mars surface systems, and in-
12 situ resource utilization;

13 “(6) demonstrating and testing 1 or more habi-
14 tat modules in cis-lunar space to prepare for Mars
15 missions;

16 “(7) using public-private, firm fixed-price part-
17 nerships, where practicable;

18 “(8) collaborating with international, academic,
19 and industry partners, when appropriate;

20 “(9) any risks to human health and sensitive
21 onboard technologies, including radiation exposure;

22 “(10) any risks identified through research out-
23 comes under the Administration Human Research
24 Program’s Behavioral Health Element; and

1 “(11) the recommendations and ideas of several
2 independently developed reports or concepts that de-
3 scribe potential Mars architectures or concepts and
4 identify Mars as the long-term goal for human space
5 exploration, including the reports described under
6 section 431 of the National Aeronautics and Space
7 Administration Transition Authorization Act of
8 2017 (Public Law 115–10, 131 Stat. 38).

9 “(d) CRITICAL DECISION PLAN ON HUMAN SPACE
10 EXPLORATION.—As part of the human exploration road-
11 map, the Administrator shall include a critical decision
12 plan—

13 “(1) identifying and defining key decisions
14 guiding human space exploration priorities and plans
15 that need to be made before June 30, 2020, includ-
16 ing decisions that may guide human space explo-
17 ration capability development, precursor missions,
18 long-term missions, and activities;

19 “(2) defining decisions needed to maximize effi-
20 ciencies and resources for reaching the near-, inter-
21 mediate-, and long-term goals and objectives of
22 human space exploration; and

23 “(3) identifying and defining timelines and
24 milestones for a sustainable cadence of missions be-
25 ginning with Artemis III for the Space Launch Sys-

tem and Orion to extend human exploration from
cis-lunar space to the surface of Mars.

“(e) REPORTS.—

“(1) INITIAL HUMAN EXPLORATION ROAD-
MAP.—The Administrator shall submit to the appro-
priate committees of Congress—

“(A) an initial human exploration road-
map, including a critical decision plan, before
December 1, 2017; and

“(B) an updated human exploration road-
map periodically as the Administrator considers
necessary but not less than biennially.

“(2) CONTENTS.—Each human exploration
roadmap under this subsection shall include a de-
scription of—

“(A) the achievements and goals accom-
plished in the process of developing capabilities
and technologies described in this section dur-
ing the 2-year period prior to the submission of
the human exploration roadmap; and

“(B) the expected goals and achievements
in the following 2-year period.

“(3) SUBMISSION WITH BUDGET.—Each human
exploration roadmap under this section shall be in-

1 cluded in the budget for that fiscal year transmitted
2 to Congress under section 1105(a) of title 31.

3 **“Subchapter III—ADVANCING**
4 **SPACE SCIENCE**

5 **“§ 71731. Policy on maintaining balanced space**
6 **science portfolio**

7 “‘It is the policy of the United States to ensure, to
8 the extent practicable, a steady cadence of large, medium,
9 and small science missions.

10 **“§ 71732. Mission priorities for planetary science**

11 “(a) IN GENERAL.—In accordance with the priorities
12 established in the most recent Planetary Science Decadal
13 Survey, the Administrator shall ensure, to the greatest ex-
14 tent practicable, the completion of a balanced set of Dis-
15 covery, New Frontiers, and Flagship missions at the ca-
16 dence recommended by the most recent Planetary Science
17 Decadal Survey.

18 “(b) MISSION PRIORITY ADJUSTMENTS.—Consistent
19 with the set of missions described in subsection (a), and
20 while maintaining the continuity of scientific data and
21 steady development of capabilities and technologies, the
22 Administrator may seek, if necessary, adjustments to mis-
23 sion priorities, schedule, and scope in light of changing
24 budget projections.

1 **“§ 71733. Extrasolar planet exploration strategy**

2 “(a) STRATEGY.—

3 “(1) IN GENERAL.—The Administrator shall
4 enter into an arrangement with the National Acad-
5 emies to develop a science strategy for the study and
6 exploration of extrasolar planets, including the use
7 of the Transiting Exoplanet Survey Satellite, the
8 James Webb Space Telescope, a potential Wide-
9 Field Infrared Survey Telescope mission, or any
10 other telescope, spacecraft, or instrument, as appro-
11 priate.

12 “(2) REQUIREMENTS.—The strategy shall—

13 “(A) outline key scientific questions;

14 “(B) identify the most promising research
15 in the field;

16 “(C) indicate the extent to which the mis-
17 sion priorities in existing decadal surveys ad-
18 dress the key extrasolar planet research and ex-
19 ploration goals;

20 “(D) identify opportunities for coordina-
21 tion with international partners, commercial
22 partners, and not-for-profit partners; and

23 “(E) make recommendations regarding the
24 activities under subparagraphs (A) through
25 (D), as appropriate.

1 “(b) USE OF STRATEGY.—The Administrator shall
2 use the strategy—

3 “(1) to inform roadmaps, strategic plans, and
4 other activities of the Administration as they relate
5 to extrasolar planet research and exploration; and

6 “(2) to provide a foundation for future activi-
7 ties and initiatives related to extrasolar planet re-
8 search and exploration.

9 “(c) REPORT TO CONGRESS.—Not later than 18
10 months after March 21, 2017, the National Academies
11 shall submit to the Administrator and to the appropriate
12 committees of Congress a report containing the strategy
13 developed under subsection (a).

14 **“§ 71734. Astrobiology strategy**

15 “(a) STRATEGY.—

16 “(1) IN GENERAL.—The Administrator shall
17 enter into an arrangement with the National Acad-
18 emies to develop a science strategy for astrobiology
19 that would outline key scientific questions, identify
20 the most promising research in the field, and indi-
21 cate the extent to which the mission priorities in ex-
22 isting decadal surveys address the search for life’s
23 origin, evolution, distribution, and future in the uni-
24 verse.

1 “(2) RECOMMENDATIONS.—The strategy shall
2 include recommendations for coordination with inter-
3 national partners.

4 “(b) USE OF STRATEGY.—The Administrator shall
5 use the strategy developed under subsection (a) in plan-
6 ning and funding research and other activities and initia-
7 tives in the field of astrobiology.

8 “(c) REPORT TO CONGRESS.—Not later than 18
9 months after March 21, 2017, the National Academies
10 shall submit to the Administrator and to the appropriate
11 committees of Congress a report containing the strategy
12 developed under subsection (a).

13 **“§ 71735. Collaboration**

14 “The Administration shall continue to develop first-
15 of-a-kind instruments that, once proved, can be
16 transitioned to other agencies for operations. Whenever re-
17 sponsibilities for the development of sensors or for meas-
18 urements are transferred to the Administration from an-
19 other agency, the Administration shall seek, to the extent
20 possible, to be reimbursed for the assumption of such re-
21 sponsibilities.

“Subchapter IV—SPACE TECHNOLOGY

“§ 71741. Space technology infusion

“(a) POLICY.—It is the policy of the United States that the Administrator shall develop technologies to support the Administration’s core missions, as described in section 2(3) of the National Aeronautics and Space Administration Authorization Act of 2010 (Public Law 111–267, 124 Stat. 2807), and support sustained investments in early stage innovation, fundamental research, and technologies to expand the boundaries of the national aerospace enterprise.

“(b) PROPULSION TECHNOLOGIES.—A goal of propulsion technologies developed under subsection (a) shall be to significantly reduce human travel time to Mars.

“§ 71742. Space technology program

“(a) SPACE TECHNOLOGY PROGRAM AUTHORIZED.—The Administrator shall conduct a space technology program (referred to in this section as the ‘Program’) to research and develop advanced space technologies that could deliver innovative solutions across the Administration’s space exploration and science missions.

“(b) CONSIDERATIONS.—In conducting the Program, the Administrator shall consider—

1 “(1) the recommendations of the National
2 Academies’ review of the Administration’s Space
3 Technology roadmaps and priorities; and

4 “(2) the applicable enabling aspects of the step-
5 ping stone approach to exploration under section
6 70504 of this title.

7 “(c) REQUIREMENTS.—In conducting the Program,
8 the Administrator shall—

9 “(1) to the extent practicable, use a competitive
10 process to select research and development projects;

11 “(2) to the extent practicable and appropriate,
12 use small satellites and the Administration’s sub-
13 orbital and ground-based platforms to demonstrate
14 space technology concepts and developments; and

15 “(3) as appropriate, partner with other Federal
16 agencies, universities, private industry, and foreign
17 countries.

18 “(d) SMALL BUSINESS PROGRAMS.—The Adminis-
19 trator shall organize and manage the Administration’s
20 Small Business Innovation Research Program and Small
21 Business Technology Transfer Program within the Pro-
22 gram.

23 “(e) NONDUPLICATION CERTIFICATION.—The Ad-
24 ministrator shall submit a budget for each fiscal year, as
25 transmitted to Congress under section 1105(a) of title 31,

1 that avoids duplication of projects, programs, or missions
2 conducted by the Program with other projects, programs,
3 or missions conducted by another office or directorate of
4 the Administration.

5 “(f) COLLABORATION, COORDINATION, AND ALIGN-
6 MENT.—The Administrator shall—

7 “(1) ensure that the Administration’s projects,
8 programs, and activities in support of technology re-
9 search and development of advanced space tech-
10 nologies are fully coordinated and aligned;

11 “(2) ensure that the results of the projects, pro-
12 grams, and activities under paragraph (1) are
13 shared and leveraged within the Administration; and

14 “(3) ensure that the organizational responsi-
15 bility for research and development activities in sup-
16 port of human space exploration not initiated as of
17 March 21, 2017, is established on the basis of a
18 sound rationale.

19 “(g) ANNUAL REPORT.—The Administrator shall in-
20 clude in the Administration’s annual budget request for
21 each fiscal year the rationale for assigning organizational
22 responsibility for, in the year prior to the budget fiscal
23 year, each initiated project, program, and mission focused
24 on research and development of advanced technologies for
25 human space exploration.

1 **“Subchapter V—MAXIMIZING**
2 **EFFICIENCY**
3 **“Part A—Administration Informa-**
4 **tion Technology and Cybersecu-**
5 **urity**

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 siderers 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.

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 reaffirms that the Administrator should provide flight opportunities for payloads to microgravity environments and
10 suborbital altitudes as authorized by section 40905 of this
11 title.
12 title.

13 **“§ 71766. Space Act Agreements**

14 “(a) FUNDED SPACE ACT AGREEMENTS.—To the extent appropriate, the Administrator shall seek to maximize
15 the value of contributions provided by other parties under
16 the value of contributions provided by other parties under
17 a funded Space Act Agreement in order to advance the
18 Administration’s mission.

19 “(b) NON-EXCLUSIVITY.—

20 “(1) IN GENERAL.—The Administrator shall, to
21 the greatest extent practicable, issue each Space Act
22 Agreement—

23 “(A) except as provided in paragraph (2),
24 on a nonexclusive basis;

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 “(II) 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-

mittee on Science” and inserting “Committee on Science, Space, and Technology” in the following provisions:

(A) Subsection (a)(2)(A).

(B) Subsection (a)(2)(B).

(C) Subsection (b) (matter before paragraph (1)).

(D) Subsection (c)(3).

(E) Subsection (d).

(F) Subsection (e)(2) (matter before subparagraph (A)).

(10) Section 49906(b) (matter before paragraph (1)) of title 51, United States Code (as redesignated by subsection (n)(3)), is amended by striking “Committee on Science and Technology” and inserting “Committee on Science, Space, and Technology”.

(11) Section 50134(b)(1) (matter before subparagraph (A)) of title 51, United States Code, is amended by striking “Committee on Science and Technology” and inserting “Committee on Science, Space, and Technology”.

(12) Section 50505(a) of title 51, United States 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—

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(c)(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 Law
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-

tion Transition Authorization Act of 2017” and inserting “section 71711(c) of this title”.

(15) Section 70504(a) of title 51, United States Code, is amended—

(A) in paragraph (1), by striking “section 202(b)(5) of the National Aeronautics and Space Administration Authorization Act of 2010 (42 U.S.C. 18312(b)(5));” and inserting “section 71512(b)(5) of this title;” and

(B) in paragraph (2), by striking “section 432 of the National Aeronautics and Space Administration Transition Authorization Act of 2017.” and inserting “section 71721 of this title.”.

SEC. 5. TRANSITIONAL AND SAVINGS PROVISIONS.

(a) DEFINITIONS.—In this section:

(1) RESTATED PROVISION.—The term “restated provision” means a provision of title 51, United States Code, that is enacted by section 3.

(2) SOURCE PROVISION.—The term “source provision” means a provision of law that is replaced by a restated provision.

(b) CUTOFF DATE.—The restated provisions replace certain provisions of law enacted on or before April 10, 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

Schedule of Laws Repealed—Continued

Act	Section	United States Code Former Classification
America COMPETES Reauthorization Act of 2010 (Public Law 111–358)	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	42 U.S.C. 18444
	1207	42 U.S.C. 18445
	202(b)	51 U.S.C. note prec. 40901
National Defense Authorization Act for Fiscal Year 2013 (Public Law 112–239)	203(e)	51 U.S.C. note prec. 30501
	204(b)	51 U.S.C. 20303 note
	913(a), (b)	51 U.S.C. 30701 note
Science Appropriations Act, 2013 (Public Law 113–6, div. B, title III)	(1st, 2d provisos under heading “CONSTRUCTION AND ENVIRONMENTAL COMPLIANCE AND RESTORATION”, at 127 Stat. 263)	51 U.S.C. 20145 note
Inspiring the Next Space Pioneers, Innovators, Researchers, and Explorers (INSPIRE) Women Act (Public Law 115–7)	3	51 U.S.C. note prec. 40901
National Aeronautics and Space Administration Transition Authorization Act of 2017 (Public Law 115–10)	301(b)	51 U.S.C. 50111 note
	301(e)	42 U.S.C. 18351, 51 U.S.C. 50111 note
	302(d)	42 U.S.C. 18311, 51 U.S.C. 50111 note
	302(e)	51 U.S.C. 50111 note
	302(f)	42 U.S.C. 18341, 51 U.S.C. 50111 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)	51 U.S.C. 20302 note
	501(b)	51 U.S.C. 20301 note
	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(e)	51 U.S.C. 20301 note
	702(d)	51 U.S.C. 20301 note
	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)	51 U.S.C. 50131 note
	824(b)(1)	51 U.S.C. note prec. 40901
	825(e)	51 U.S.C. 50131 note
	826	51 U.S.C. 70102 note
	837(b)	51 U.S.C. 31502 note
	837(e)	51 U.S.C. 31502 note
	837(d)	51 U.S.C. 31502 note
	837(e)	51 U.S.C. 31502 note
	841(b)	51 U.S.C. 20113 note

Schedule of Laws Repealed—Continued

Act	Section	United States Code Former Classification
Women in Aerospace Education Act (Public Law 115–303)	841(e)	51 U.S.C. 20113 note
	841(d)	51 U.S.C. 20113 note
	841(e)	51 U.S.C. 20113 note
	3	51 U.S.C. note prec. 40901
William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021 (Public Law 116–283)	9406	51 U.S.C. note prec. 40901

Passed the House of Representatives August 31,
2026.

Attest:

Clerk.

119TH CONGRESS
2^D SESSION

H. R. 5174

AN ACT

To make revisions in title 51, United States Code, as necessary to keep the title current, and to make technical amendments to improve the United States Code.