

117TH CONGRESS
2D SESSION

S. 4779

To extend the use of, and set forth priorities for, the International Space Station, and for other purposes.

IN THE SENATE OF THE UNITED STATES

AUGUST 4, 2022

Mr. CRUZ introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

A BILL

To extend the use of, and set forth priorities for, the International Space Station, and for other purposes.

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

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “ISS Extension Act of
5 2022”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

8 (1) ADMINISTRATION.—The term “Administra-
9 tion” means the National Aeronautics and Space
10 Administration.

1 (2) ADMINISTRATOR.—The term “Adminis-
2 trator” means the Administrator of the National
3 Aeronautics and Space Administration.

4 (3) APPROPRIATE COMMITTEES OF CON-
5 GRESS.—Except as otherwise expressly provided, the
6 term “appropriate committees of Congress”
7 means—

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

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

12 (4) ISS.—The term “ISS” means the Inter-
13 national Space Station.

14 **SEC. 3. EXTENSION AND MODIFICATION RELATING TO**
15 **INTERNATIONAL SPACE STATION.**

16 (a) POLICY.—Section 501(a) of the National Aero-
17 nautics and Space Administration Authorization Act of
18 2010 (42 U.S.C. 18351(a)) is amended by striking
19 “2024” and inserting “September 30, 2030”.

20 (b) MAINTENANCE OF UNITED STATES SEGMENT
21 AND ASSURANCE OF CONTINUED OPERATIONS.—Section
22 503(a) of the National Aeronautics and Space Administra-
23 tion Authorization Act of 2010 (42 U.S.C. 18353(a)) is
24 amended by striking “September 30, 2024” and inserting
25 “September 30, 2030”.

1 (c) RESEARCH CAPACITY ALLOCATION AND INTE-
2 GRATION OF RESEARCH PAYLOADS.—Section 504(d) of
3 the National Aeronautics and Space Administration Au-
4 thorization Act of 2010 (42 U.S.C. 18354(d)) is amend-
5 ed—

6 (1) in paragraph (1), in the first sentence—

7 (A) by striking “As soon as practicable”
8 and all that follows through “2011,” and in-
9 serting “The”; and

10 (B) by striking “September 30, 2024” and
11 inserting “September 30, 2030”; and

12 (2) in paragraph (2), in the third sentence, by
13 striking “September 30, 2024” and inserting “Sep-
14 tember 30, 2030”.

15 (d) MAINTENANCE OF USE.—

16 (1) IN GENERAL.—Section 70907 of title 51,
17 United States Code, is amended—

18 (A) in the section heading, by striking
19 “**2024**” and inserting “**2030**”;

20 (B) in subsection (a), by striking “Sep-
21 tember 30, 2024” and inserting “September 30,
22 2030”; and

23 (C) in subsection (b)(3), by striking “Sep-
24 tember 30, 2024” and inserting “September 30,
25 2030”.

1 (2) CONFORMING AMENDMENT.—The table of
2 sections for chapter 709 of title 51, United States
3 Code, is amended by striking the item relating to
4 section 70907 and inserting the following:

“70907. Maintaining use through at least 2030.”.

5 (e) TRANSITION PLAN REPORTS.—Section
6 50111(c)(2) of title 51, United States Code is amended—

7 (1) in the matter preceding subparagraph (A),
8 by striking “2023” and inserting “2028”; and

9 (2) in subparagraph (J), by striking “2028”
10 and inserting “2030”.

11 (f) ASSESSMENTS AND REPORT.—The Administrator
12 shall—

13 (1) conduct a comprehensive assessment of the
14 viability of the ISS to operate safely and support full
15 and productive use through 2030, including all nec-
16 essary analyses to certify ISS operations through
17 2030;

18 (2) not later than 180 days after the date of
19 the enactment of this Act, submit to the Aerospace
20 Safety Advisory Panel an assessment of—

21 (A) the root cause of cracks and air leaks
22 in the Russian Service Module Transfer Tunnel;

23 (B) the certification of all United States
24 systems and modules to operate through 2030;

1 (C)(i) an inventory of spares or replace-
2 ments for elements, systems, and equipment,
3 including systems certified under subparagraph
4 (B), that are currently produced, in inventory,
5 or on order;

6 (ii) a description of the state of the readi-
7 ness of such spares and replacements; and

8 (iii) a schedule for delivery of such spares
9 and replacements to the ISS, including the
10 planned transportation means for such delivery
11 and the estimated cost and schedule for pro-
12 curement of such spares and replacements and
13 their delivery to the ISS; and

14 (D) any other relevant data, information,
15 or analysis relevant to the safe and productive
16 use of the ISS through 2030; and

17 (3) not later than 240 days after the date of
18 the enactment of this Act, submit to the appropriate
19 committees of Congress—

20 (A) a report on the results of the assess-
21 ment conducted under paragraph (1); and

22 (B) a plan to address any recommenda-
23 tions of the Aerospace Safety Advisory Panel,
24 consistent with section 31101(c)(2) of title 51,

1 United States Code, with respect to such as-
2 sessment.

3 **SEC. 4. PRIORITIES FOR INTERNATIONAL SPACE STATION.**

4 (a) IN GENERAL.—The Administrator shall assess
5 International Space Station research activities and shall
6 ensure that crew time and resources allocated to the Ad-
7 ministration for use on the International Space Station
8 prioritize—

9 (1) the research of the Human Research Pro-
10 gram, including research on and development of
11 countermeasures relevant to reducing human health
12 and performance risks, behavioral and psychological
13 risks, and other astronaut safety risks related to
14 long-duration human spaceflight;

15 (2) risk reduction activities relevant to explo-
16 ration technologies, including for the Environmental
17 Control and Life Support System, extravehicular ac-
18 tivity and space suits, environmental monitoring,
19 safety, emergency response, and deep space commu-
20 nications;

21 (3) the advancement of United States leader-
22 ship in basic and applied space life and physical
23 science research, consistent with the priorities of the
24 most recent space life and physical sciences decadal

1 survey of the National Academies of Sciences, Engi-
2 neering, and Medicine; and

3 (4) other research and development activities
4 identified by the Administrator as essential to Moon
5 to Mars activities.

6 (b) REPORTS.—

7 (1) ASSESSMENT AND PRIORITIZATION.—Not
8 later than 180 days after the date of the enactment
9 of this Act, the Administrator shall submit to the
10 appropriate committees of Congress a report on—

11 (A) the assessment; and

12 (B) the steps taken to achieve the
13 prioritization required by subsection (a).

14 (2) SPACE FLIGHT PARTICIPANTS.—Not later
15 than 120 days after the date of the enactment of
16 this Act, the Administrator shall submit to the ap-
17 propriate committees of Congress a report on meas-
18 ures taken, with respect to space flight participants
19 aboard the ISS, to ensure government astronaut
20 safety, to avoid interference in ISS operations and
21 research priorities, and to prevent undue demands
22 on crew time and resources.

23 (3) ANNUAL PROGRESS REPORTS.—Concurrent
24 with the annual budget submission of the President
25 to Congress under section 1105(a) of title 31,

1 United States Code, the Administrator shall provide
2 to the appropriate committees of Congress an an-
3 nual accounting of the use of Administration crew
4 time and ISS resources, including the allocation of
5 such resources toward the priorities described in
6 subsection (a).

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