

Calendar No. 159114TH CONGRESS
1ST SESSION**S. 1297****[Report No. 114–88]**

To update the Commercial Space Launch Act by amending title 51, United States Code, to promote competitiveness of the U.S. commercial space sector, and for other purposes.

IN THE SENATE OF THE UNITED STATES

MAY 12, 2015

Mr. CRUZ (for himself, Mr. NELSON, Mr. PETERS, Mr. RUBIO, Mr. GARDNER, and Mr. UDALL) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

JULY 22, 2015

Reported by Mr. THUNE, with an amendment

[Strike out all after the enacting clause and insert the part printed in *italie*]**A BILL**

To update the Commercial Space Launch Act by amending title 51, United States Code, to promote competitiveness of the U.S. commercial space sector, 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,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “U.S. Commercial
3 Space Launch Competitiveness Act”.

4 **SEC. 2. REFERENCES TO TITLE 51, UNITED STATES CODE.**

5 Except as otherwise expressly provided, wherever in
6 this Act an amendment or repeal is expressed in terms
7 of an amendment to, or repeal of, a section or other provi-
8 sion, the reference shall be considered to be made to a
9 section or other provision of title 51, United States Code.

10 **SEC. 3. LIABILITY INSURANCE AND FINANCIAL RESPONSIB-**
11 **ILITY REQUIREMENTS.**

12 (a) **SENSE OF CONGRESS.**—It is the sense of Con-
13 gress that it is in the public interest to update the method-
14 ology used to calculate the maximum probable loss from
15 claims under section 50914 of title 51, United States
16 Code, with a validated risk profile approach in order to
17 consistently compute valid and reasonable maximum prob-
18 able loss values.

19 (b) **IMPLEMENTATION.**—Not later than September
20 30, 2015, the Secretary of Transportation, in consultation
21 with the commercial space sector and insurance providers,
22 shall—

23 (1) evaluate and, if necessary, develop a plan to
24 update the methodology used to calculate the max-
25 imum probable loss from claims under section 50914
26 of title 51, United States Code;

1 (2) in evaluating or developing a plan under
2 paragraph (1)—

3 (A) ensure that the Federal Government is
4 not exposed to greater costs than intended and
5 that launch companies are not required to pur-
6 chase more insurance coverage than necessary;
7 and

8 (B) consider the impact of the cost to both
9 the industry and the Government of imple-
10 menting an updated methodology; and

11 (3) submit the evaluation, and any plan, to the
12 Committee on Commerce, Science, and Transpor-
13 tation of the Senate and the Committee on Science,
14 Space, and Technology of the House of Representa-
15 tives.

16 **SEC. 4. LAUNCH LIABILITY EXTENSION.**

17 Section 50915(f) is amended by striking “December
18 31, 2016” and inserting “December 31, 2020”.

19 **SEC. 5. COMMERCIAL SPACE LAUNCH LICENSING AND EX-**
20 **PERIMENTAL PERMITS.**

21 Section 50906 is amended—

22 (1) in subsection (d), by striking “launched or
23 reentered” and inserting “launched or reentered
24 under that permit”;

1 (2) by amending subsection (d)(1) to read as
2 follows:

3 “~~(1) research and development to test design~~
4 ~~concepts, equipment, or operating techniques;~~”;

5 (3) in subsection (d)(3) by striking “prior to
6 obtaining a license”;

7 (4) in subsection (e)(1) by striking “suborbital
8 rocket design” and inserting “suborbital rocket or
9 suborbital rocket design”; and

10 (5) by amending subsection (g) to read as fol-
11 lows:

12 “(g) The Secretary may issue a permit under this sec-
13 tion notwithstanding any license issued under this chapter.
14 The issuance of a license under this chapter may not inval-
15 idate a permit issued under this section.”.

16 **SEC. 6. LICENSING REPORT.**

17 Not later than 120 days after the date of enactment
18 of this Act, the Secretary of Transportation shall submit
19 to the Committee on Commerce, Science, and Transpor-
20 tation of the Senate and the Committee on Science, Space,
21 and Technology of the House of Representatives a report
22 on approaches for streamlining the licensing and permit-
23 ting process of launch vehicles, reentry vehicles, or compo-
24 nents of launch or reentry vehicles, to enable non-launch
25 flight operations related to space transportation. The re-

1 port shall include approaches to improve efficiency, reduce
2 unnecessary costs, resolve inconsistencies, remove duplica-
3 tion, and minimize unwarranted constraints.

4 **SEC. 7. SPACE AUTHORITY.**

5 (a) IN GENERAL.—Not later than 120 days after the
6 date of enactment of this Act, the Director of the Office
7 of Science and Technology Policy, in consultation with the
8 Secretary of State, the Secretary of Transportation, the
9 Administrator of the National Aeronautics and Space Ad-
10 ministration, the heads of other relevant Federal agencies,
11 and the commercial space sector, shall—

12 (1) assess current, and proposed near-term,
13 commercial non-governmental activities conducted in
14 space;

15 (2) identify appropriate oversight authorities
16 for the activities described in paragraph (1);

17 (3) recommend an oversight approach that
18 would prioritize safety, utilize existing authorities,
19 minimize burdens, promote the U.S. commercial
20 space sector, and meet the United States obligations
21 under international treaties; and

22 (4) submit to the Committee on Commerce,
23 Science, and Transportation of the Senate and the
24 Committee on Science, Space, and Technology of the

1 House of Representatives a report on the assessment
2 and recommended approaches.

3 (b) ~~EXCEPTION.~~—Nothing in this section shall apply
4 to the activities of the ISS national laboratory as described
5 in section 504 of the National Aeronautics and Space Ad-
6 ministration Authorization Act of 2010 (42 U.S.C.
7 18354), including any research or development projects
8 utilizing the ISS national laboratory.

9 ~~SEC. 8. SPACE SURVEILLANCE AND SITUATIONAL AWARE-~~
10 ~~NESS DATA.~~

11 Not later than 120 days after the date of enactment
12 of this Act, the Secretary of Transportation in concur-
13 rence with the Secretary of Defense shall—

14 (1) in consultation with the heads of other rel-
15 evant Federal agencies, study the feasibility of proc-
16 essing and releasing safety-related space situational
17 awareness data and information to any entity con-
18 sistent with national security interests and public
19 safety obligations of the United States; and

20 (2) submit a report on the feasibility study to
21 the Committee on Commerce, Science, and Trans-
22 portation of the Senate and the Committee on
23 Science, Space, and Technology of the House of
24 Representatives.

1 **SEC. 9. EXTENSION OF CERTAIN SAFETY REGULATION RE-**
2 **QUIREMENTS.**

3 (a) EXTENSION OF CERTAIN SAFETY REGULATION
4 REQUIREMENTS.—Section 50905(e)(3) is amended by
5 striking “Beginning on October 1, 2015” and inserting
6 “Beginning on October 1, 2020”.

7 (b) CONSTRUCTION.—Section 50905(e) is amended
8 by adding at the end the following:

9 “(5) Nothing in this subsection shall be con-
10 strued to limit the authority of the Secretary to dis-
11 cuss potential regulatory approaches with the com-
12 mercial space sector, including observations, find-
13 ings, and recommendations from the Commercial
14 Space Transportation Advisory Committee, prior to
15 the issuance of a notice of proposed rulemaking.”

16 (c) REPORT.—Not later than 270 days after the date
17 of enactment of this Act, the Secretary of Transportation,
18 in consultation with the commercial space sector, including
19 the Commercial Space Transportation Advisory Com-
20 mittee, shall submit to the Committee on Commerce,
21 Science, and Transportation of the Senate and the Com-
22 mittee on Science, Space, and Technology of the House
23 of Representatives a report specifying key industry metrics
24 that might indicate readiness of the commercial space sec-
25 tor and the Department of Transportation to transition
26 to a regulatory approach under section 50905(e)(3) of title

1 51, United States Code, that considers space flight partici-
2 pant, government astronaut, and crew safety.

3 (d) BIENNIAL REPORT.—Beginning on December 31,
4 2016, and biennially thereafter, the Secretary of Trans-
5 portation, in consultation and coordination with the com-
6 mercial space sector, including the Commercial Space
7 Transportation Advisory Committee, shall submit to the
8 Committee on Commerce, Science, and Transportation of
9 the Senate and the Committee on Science, Space, and
10 Technology of the House of Representatives a report that
11 identifies the activities, described in subsections (c) and
12 (d) of section 50905 of title 51, United States Code, most
13 appropriate for regulatory action, if any, and a proposed
14 transition plan for such regulations.

15 **SEC. 10. INDUSTRY VOLUNTARY CONSENSUS STANDARDS.**

16 (a) INDUSTRY VOLUNTARY CONSENSUS STAND-
17 ARDS.—Section 50905(e), as amended in section 9 of this
18 Act, is further amended by adding at the end the fol-
19 lowing:

20 “(6) The Secretary shall continue to work with
21 the commercial space sector, including the Commer-
22 cial Space Transportation Advisory Committee, to
23 facilitate the development of voluntary consensus
24 standards based on recommended best practices to
25 improve the safety of crew, government astronauts,

1 and space flight participants as the commercial
2 space sector continues to mature.”.

3 (b) BIENNIAL REPORT.—Beginning on December 31,
4 2016, and biennially thereafter, the Secretary of Trans-
5 portation, in consultation and coordination with the com-
6 mercial space sector, including the Commercial Space
7 Transportation Advisory Committee, shall submit to the
8 Committee on Commerce, Science, and Transportation of
9 the Senate and the Committee on Science, Space, and
10 Technology of the House of Representatives a report de-
11 tailing progress on the development of industry voluntary
12 consensus standards under section 50905(e)(6) of title 51,
13 United States Code.

14 **SEC. 11. GOVERNMENT ASTRONAUTS.**

15 (a) FINDINGS AND PURPOSE.—Section 50901(15) is
16 amended by inserting “, government astronauts,” after
17 “crew” each place it appears.

18 (b) DEFINITION OF GOVERNMENT ASTRONAUT.—

19 Section 50902 is amended—

20 (1) by redesignating paragraphs (4) through
21 (22) as paragraphs (7) through (25), respectively;

22 and

23 (2) by inserting after paragraph (3) the fol-
24 lowing:

1 “(4) ‘government astronaut’ means an indi-
2 vidual who—

3 “(A) is either—

4 “(i) an employee of the United States
5 Government, including the uniformed serv-
6 ices, engaged in the performance of a Fed-
7 eral function under authority of law or an
8 Executive act; or

9 “(ii) an international partner astro-
10 naut;

11 “(B) is identified by the Administrator of
12 the National Aeronautics and Space Adminis-
13 tration;

14 “(C) is carried within a launch vehicle or
15 reentry vehicle; and

16 “(D) may perform or may not perform ac-
17 tivities directly relating to the launch, reentry,
18 or other operation of the launch vehicle or re-
19 entry vehicle.

20 “(5) ‘international partner astronaut’ means an
21 individual designated under Article 11 of the Inter-
22 national Space Station Intergovernmental Agree-
23 ment, by a partner to that agreement other than the
24 United States, as qualified to serve as an Inter-
25 national Space Station crew member.

1 “(6) ‘International Space Station Intergovern-
2 mental Agreement’ means the Agreement Con-
3 cerning Cooperation on the International Space Sta-
4 tion, signed at Washington January 29, 1998 (TIAS
5 12927).”.

6 (c) DEFINITION OF LAUNCH.—Paragraph (7) of sec-
7 tion 50902, as redesignated, is amended by striking “and
8 any payload, crew, or space flight participant” and insert-
9 ing “and any payload or human being”.

10 (d) DEFINITION OF LAUNCH SERVICES.—Paragraph
11 (9) of section 50902, as redesignated, is amended by strik-
12 ing “payload, crew (including crew training), or space
13 flight participant” and inserting “payload, crew (including
14 crew training), government astronaut, or space flight par-
15 ticipant”.

16 (e) DEFINITION OF REENTER AND REENTRY.—Para-
17 graph (16) of section 50902, as redesignated, is amended
18 by striking “and its payload, crew, or space flight partici-
19 pants, if any,” and inserting “and its payload or human
20 beings, if any,”.

21 (f) DEFINITION OF REENTRY SERVICES.—Paragraph
22 (17) of section 50902, as redesignated, is amended by
23 striking “payload, crew (including crew training), or space
24 flight participant, if any,” and inserting “payload, crew

1 (including crew training), government astronaut, or space
2 flight participant, if any.”.

3 (g) DEFINITION OF SPACE FLIGHT PARTICIPANT.—

4 Paragraph (20) of section 50902, as redesignated, is
5 amended to read as follows:

6 “(20) ‘space flight participant’ means an indi-
7 vidual, who is not crew or a government astronaut,
8 carried within a launch vehicle or reentry vehicle.”.

9 (h) DEFINITION OF THIRD PARTY.—Paragraph
10 (24)(E) of section 50902, as redesignated, is amended by
11 inserting “, government astronauts,” after “crew”.

12 (i) RESTRICTIONS ON LAUNCHES, OPERATIONS, AND
13 REENTRIES; SINGLE LICENSE OR PERMIT.—Section
14 50904(d) is amended by striking “activities involving crew
15 or space flight participants” and inserting “activities in-
16 volving crew, government astronauts, or space flight par-
17 ticipants”.

18 (j) LICENSE APPLICATIONS AND REQUIREMENTS;
19 APPLICATIONS.—Section 50905 is amended—

20 (1) in subsection (a)(2), by striking “crews and
21 space flight participants” and inserting “crew, gov-
22 ernment astronauts, and space flight participants”;

23 (2) in subsection (b)(2)(D), by striking “crew
24 or space flight participants” and inserting “crew,

1 government astronauts, or space flight participants”;

2 and

3 ~~(3)~~ in subsection (c)—

4 (A) in paragraph (1), by striking “crew
5 and space flight participants” and inserting
6 “crew, government astronauts, and space flight
7 participants”; and

8 (B) in paragraph (2), by striking “to crew
9 or space flight participants” each place it ap-
10 pears and inserting “to crew, government astro-
11 nauts, or space flight participants”.

12 (k) MONITORING ACTIVITIES.—Section 50907(a) is
13 amended by striking “crew or space flight participant
14 training” and inserting “crew, government astronaut, or
15 space flight participant training”.

16 (l) ADDITIONAL SUSPENSIONS.—Section
17 50908(d)(1) is amended by striking “to crew or space
18 flight participants” each place it appears and inserting “to
19 any human being”.

20 (m) ENFORCEMENT AND PENALTY.—Section
21 50917(b)(1)(D)(i) is amended by striking “crew or space
22 flight participant training site,” and inserting “crew, gov-
23 ernment astronaut, or space flight participant training
24 site,”.

1 (n) RELATIONSHIP TO OTHER EXECUTIVE AGEN-
2 CIES, LAWS, AND INTERNATIONAL OBLIGATIONS; NON-
3 APPLICATION.—Section 50919(g) is amended to read as
4 follows:

5 “(g) NONAPPLICATION.—

6 “(1) IN GENERAL.—This chapter does not
7 apply to—

8 “(A) a launch, reentry, operation of a
9 launch vehicle or reentry vehicle, operation of a
10 launch site or reentry site, or other space activ-
11 ity the Government carries out for the Govern-
12 ment; or

13 “(B) planning or policies related to the
14 launch, reentry, operation, or activity under
15 subparagraph (A).

16 “(2) RULE OF CONSTRUCTION.—The following
17 activities are not space activities the Government
18 carries out for the Government under paragraph (1):

19 “(A) A government astronaut being carried
20 within a launch vehicle or reentry vehicle under
21 this chapter.

22 “(B) A government astronaut performing
23 activities directly relating to the launch, re-
24 entry, or other operation of the launch vehicle
25 or reentry vehicle under this chapter.”.

1 (c) **RULE OF CONSTRUCTION.**—Nothing in this Act,
2 or the amendments made by this Act, may be construed
3 to modify or affect any law relating to astronauts.

4 **SEC. 12. STREAMLINE COMMERCIAL SPACE LAUNCH AC-**
5 **TIVITIES.**

6 (a) **SENSE OF CONGRESS.**—It is the sense of Con-
7 gress that eliminating duplicative requirements and ap-
8 provals for commercial launch and reentry operations will
9 promote and encourage the development of the commercial
10 space sector.

11 (b) **REAFFIRMATION OF POLICY.**—Congress reaffirms that the Secretary of Transportation, in overseeing
12 and coordinating commercial launch and reentry operations, should—

15 (1) promote commercial space launches and re-
16 entries by the private sector;

17 (2) facilitate Government, State, and private
18 sector involvement in enhancing U.S. launch sites
19 and facilities;

20 (3) protect public health and safety, safety of
21 property, national security interests, and foreign policy
22 interests of the United States; and

23 (4) consult with the head of another executive
24 agency, including the Secretary of Defense or the
25 Administrator of the National Aeronautics and

1 Space Administration, as necessary to provide con-
2 sistent application of licensing requirements under
3 chapter 509 of title 51, United States Code.

4 (c) REQUIREMENTS.—

5 (1) IN GENERAL.—The Secretary of Transpor-
6 tation under section 50918 of title 51, United States
7 Code, and subject to section 50905(b)(2)(C) of that
8 title, shall consult with the Secretary of Defense, the
9 Administrator of the National Aeronautics and
10 Space Administration, and the heads of other execu-
11 tive agencies, as appropriate—

12 (A) to identify all requirements that are
13 imposed to protect the public health and safety,
14 safety of property, national security interests,
15 and foreign policy interests of the United States
16 relevant to any commercial launch of a launch
17 vehicle or commercial reentry of a reentry vehi-
18 cle; and

19 (B) to evaluate the requirements identified
20 in subparagraph (A) and, in coordination with
21 the licensee or transferee and the heads of the
22 relevant executive agencies—

23 (i) determine whether the satisfaction
24 of a requirement of one agency could result

1 in the satisfaction of a requirement of an-
2 other agency; and

3 (ii) resolve any inconsistencies and re-
4 move any outmoded or duplicative require-
5 ments or approvals of the Federal Govern-
6 ment relevant to any commercial launch of
7 a launch vehicle or commercial reentry of
8 a reentry vehicle.

9 (2) REPORTS.—Not later than 180 days after
10 the date of enactment of this Act, and annually
11 thereafter until the Secretary of Transportation de-
12 termines no outmoded or duplicative requirements or
13 approvals of the Federal Government exist, the Sec-
14 retary of Transportation, in consultation with the
15 Secretary of Defense, the Administrator of the Na-
16 tional Aeronautics and Space Administration, the
17 commercial space sector, and the heads of other ex-
18 ecutive agencies, as appropriate, shall submit to the
19 Committee on Commerce, Science, and Transpor-
20 tation of the Senate, the Committee on Science,
21 Space, and Technology of the House of Representa-
22 tives, and the congressional defense committees a re-
23 port that includes the following:

24 (A) A description of the process for the ap-
25 plication for and approval of a permit or license

1 under chapter 509 of title 51, United States
2 Code, for the commercial launch of a launch ve-
3 hicle or commercial reentry of a reentry vehicle,
4 including the identification of—

5 (i) any unique requirements for oper-
6 ating on a United States Government
7 launch site, reentry site, or launch prop-
8 erty; and

9 (ii) any inconsistent, outmoded, or du-
10 plicative requirements or approvals.

11 (B) A description of current efforts, if any,
12 to coordinate and work across executive agen-
13 cies to define interagency processes and proce-
14 dures for sharing information, avoiding duplica-
15 tion of effort, and resolving common agency re-
16 quirements.

17 (C) Recommendations for legislation that
18 may further—

19 (i) streamline requirements in order
20 to improve efficiency, reduce unnecessary
21 costs, resolve inconsistencies, remove dupli-
22 cation, and minimize unwarranted con-
23 straints; and

24 (ii) consolidate or modify require-
25 ments across affected agencies into a sin-

1 gle application set that satisfies the re-
2 quirements identified in paragraph (1)(A).

3 ~~(3) DEFINITIONS.—~~For purposes of this sub-
4 section—

5 (A) any applicable definitions set forth in
6 section 50902 of title 51, United States Code,
7 shall apply;

8 (B) the terms “launch”, “recenter”, and
9 “reentry” include landing of a launch vehicle or
10 reentry vehicle; and

11 (C) the terms “United States Government
12 launch site” and “United States Government
13 reentry site” include any necessary facility, at
14 that location, that is commercially operated on
15 United States Government property.

16 **SEC. 13. OPERATION AND UTILIZATION OF THE ISS.**

17 (a) SENSE OF CONGRESS.—It is the sense of Con-
18 gress that—

19 (1) maximum utilization of partnerships, sci-
20 entific research, commercial applications, and explo-
21 ration test bed capabilities of the ISS is essential to
22 ensuring the greatest return on investments made by
23 the United States and its international partners in
24 the development, assembly, and operations of that
25 unique facility; and

1 (2) every effort should be made to ensure that
2 decisions regarding the service life of the ISS are
3 based on the station’s projected capability to con-
4 tinue providing effective and productive research and
5 exploration test bed capabilities.

6 (b) CONTINUATION OF THE INTERNATIONAL SPACE
7 STATION.—

8 (1) IN GENERAL.—Section 501 of the National
9 Aeronautics and Space Administration Authorization
10 Act of 2010 (42 U.S.C. 18351) is amended—

11 (A) in the heading, by striking
12 “**THROUGH 2020**”; and

13 (B) in subsection (a), by striking “through
14 at least 2020” and inserting “through at least
15 2024”.

16 (2) MAINTENANCE OF THE UNITED STATES
17 SEGMENT AND ASSURANCE OF CONTINUED OPER-
18 ATIONS OF THE INTERNATIONAL SPACE STATION.—

19 Section 503 of the National Aeronautics and Space
20 Administration Authorization Act of 2010 (42
21 U.S.C. 18353) is amended—

22 (A) in subsection (a), by striking “through
23 at least September 30, 2020” and inserting
24 “through at least September 30, 2024”; and

1 (B) in subsection (b)(1), by striking “In
2 carrying out subsection (a), the Administrator”
3 and inserting “The Administrator”.

4 (3) RESEARCH CAPACITY ALLOCATION AND IN-
5 TEGRATION OF RESEARCH PAYLOADS.—Section
6 504(d) of the National Aeronautics and Space Ad-
7 ministration Authorization Act of 2010 (42 U.S.C.
8 18354(d)) is amended by striking “September 30,
9 2020” each place it appears and inserting “at least
10 September 30, 2024”.

11 (4) MAINTAINING USE THROUGH AT LEAST
12 2024.—Section 70907 is amended to read as follows:

13 **“§ 70907. Maintaining use through at least 2024**

14 “(a) POLICY.—The Administrator shall take all nec-
15 essary steps to ensure that the International Space Sta-
16 tion remains a viable and productive facility capable of po-
17 tential United States utilization through at least Sep-
18 tember 30, 2024.

19 “(b) NASA ACTIONS.—In furtherance of the policy
20 under subsection (a), the Administrator shall ensure, to
21 the extent practicable, that the International Space Sta-
22 tion, as a designated national laboratory—

23 “(1) remains viable as an element of overall ex-
24 ploration and partnership strategies and approaches;

1 “(2) is considered for use by all NASA mission
2 directorates, as appropriate, for technically appro-
3 priate scientific data gathering or technology risk re-
4 duction demonstrations; and

5 “(3) remains an effective, functional vehicle
6 providing research and test bed capabilities for the
7 United States through at least September 30,
8 2024.”.

9 (5) TECHNICAL AND CONFORMING AMEND-
10 MENTS.—

11 (A) TABLE OF CONTENTS OF 2010 ACT.—

12 The item relating to section 501 in the table of
13 contents in section 1(b) of the National Aero-
14 nautics and Space Administration Authorization
15 Act of 2010 (124 Stat. 2806) is amended by
16 striking “through 2020”.

17 (B) TABLE OF CONTENTS OF CHAPTER
18 709.—The table of contents for chapter 709 is
19 amended by amending the item relating to sec-
20 tion 70907 to read as follows:

“70907. Maintaining use through at least 2024.”.

21 **SECTION 1. SHORT TITLE.**

22 *This Act may be cited as the “U.S. Commercial Space*
23 *Launch Competitiveness Act”.*

1 **SEC. 2. REFERENCES TO TITLE 51, UNITED STATES CODE.**

2 *Except as otherwise expressly provided, wherever in*
3 *this Act an amendment or repeal is expressed in terms of*
4 *an amendment to, or repeal of, a section or other provision,*
5 *the reference shall be considered to be made to a section or*
6 *other provision of title 51, United States Code.*

7 **SEC. 3. LIABILITY INSURANCE AND FINANCIAL RESPONSIB-**
8 **ILITY REQUIREMENTS.**

9 (a) *SENSE OF CONGRESS.—It is the sense of Congress*
10 *that it is in the public interest to update the methodology*
11 *used to calculate the maximum probable loss from claims*
12 *under section 50914 of title 51, United States Code, with*
13 *a validated risk profile approach in order to consistently*
14 *compute valid and reasonable maximum probable loss val-*
15 *ues.*

16 (b) *IMPLEMENTATION.—Not later than September 30,*
17 *2015, the Secretary of Transportation, in consultation with*
18 *the commercial space sector and insurance providers,*
19 *shall—*

20 (1) *evaluate and, if necessary, develop a plan to*
21 *update the methodology used to calculate the max-*
22 *imum probable loss from claims under section 50914*
23 *of title 51, United States Code;*

24 (2) *in evaluating or developing a plan under*
25 *paragraph (1)—*

1 (A) ensure that the Federal Government is
2 not exposed to greater costs than intended and
3 that launch companies are not required to pur-
4 chase more insurance coverage than necessary;
5 and

6 (B) consider the impact of the cost to both
7 the industry and the Government of imple-
8 menting an updated methodology; and

9 (3) submit the evaluation, and any plan, to the
10 Committee on Commerce, Science, and Transpor-
11 tation of the Senate and the Committee on Science,
12 Space, and Technology of the House of Representa-
13 tives.

14 **SEC. 4. LAUNCH LIABILITY EXTENSION.**

15 Section 50915(f) is amended by striking “December 31,
16 2016” and inserting “December 31, 2020”.

17 **SEC. 5. COMMERCIAL SPACE LAUNCH LICENSING AND EX-**
18 **PERIMENTAL PERMITS.**

19 Section 50906 is amended—

20 (1) in subsection (d), by striking “launched or
21 reentered” and inserting “launched or reentered under
22 that permit”;

23 (2) by amending subsection (d)(1) to read as fol-
24 lows:

1 “(1) research and development to test design con-
2 cepts, equipment, or operating techniques;”;

3 (3) in subsection (d)(3) by striking “prior to ob-
4 taining a license”;

5 (4) in subsection (e)(1) by striking “suborbital
6 rocket design” and inserting “suborbital rocket or
7 suborbital rocket design”; and

8 (5) by amending subsection (g) to read as fol-
9 lows:

10 “(g) The Secretary may issue a permit under this sec-
11 tion notwithstanding any license issued under this chapter.
12 The issuance of a license under this chapter may not invali-
13 date a permit issued under this section.”.

14 **SEC. 6. LICENSING REPORT.**

15 Not later than 120 days after the date of enactment
16 of this Act, the Secretary of Transportation shall submit
17 to the Committee on Commerce, Science, and Transpor-
18 tation of the Senate and the Committee on Science, Space,
19 and Technology of the House of Representatives a report
20 on approaches for streamlining the licensing and permit-
21 ting process of launch vehicles, reentry vehicles, or compo-
22 nents of launch or reentry vehicles, to enable non-launch
23 flight operations related to space transportation. The report
24 shall include approaches to improve efficiency, reduce un-
25 necessary costs, resolve inconsistencies, remove duplication,

1 *and minimize unwarranted constraints. The report shall*
2 *also include an assessment of existing private and govern-*
3 *ment infrastructure, as appropriate, in future licensing ac-*
4 *tivities.*

5 **SEC. 7. SPACE AUTHORITY.**

6 (a) *IN GENERAL.*—*Not later than 120 days after the*
7 *date of enactment of this Act, the Director of the Office of*
8 *Science and Technology Policy, in consultation with the*
9 *Secretary of State, the Secretary of Transportation, the Ad-*
10 *ministrator of the National Aeronautics and Space Admin-*
11 *istration, the heads of other relevant Federal agencies, and*
12 *the commercial space sector, shall—*

13 (1) *assess current, and proposed near-term, com-*
14 *mercial non-governmental activities conducted in*
15 *space;*

16 (2) *identify appropriate oversight authorities for*
17 *the activities described in paragraph (1);*

18 (3) *recommend an oversight approach that would*
19 *prioritize safety, utilize existing authorities, minimize*
20 *burdens, promote the U.S. commercial space sector,*
21 *and meet the United States obligations under inter-*
22 *national treaties; and*

23 (4) *submit to the Committee on Commerce,*
24 *Science, and Transportation of the Senate and the*
25 *Committee on Science, Space, and Technology of the*

1 *House of Representatives a report on the assessment*
2 *and recommended approaches.*

3 (b) *EXCEPTION.*—*Nothing in this section shall apply*
4 *to the activities of the ISS national laboratory as described*
5 *in section 504 of the National Aeronautics and Space Ad-*
6 *ministration Authorization Act of 2010 (42 U.S.C. 18354),*
7 *including any research or development projects utilizing the*
8 *ISS national laboratory.*

9 **SEC. 8. SPACE SURVEILLANCE AND SITUATIONAL AWARE-**
10 **NESS DATA.**

11 *Not later than 120 days after the date of enactment*
12 *of this Act, the Secretary of Transportation in concurrence*
13 *with the Secretary of Defense shall—*

14 (1) *in consultation with the heads of other rel-*
15 *evant Federal agencies, study the feasibility of proc-*
16 *essing and releasing safety-related space situational*
17 *awareness data and information to any entity con-*
18 *sistent with national security interests and public*
19 *safety obligations of the United States; and*

20 (2) *submit a report on the feasibility study to*
21 *the 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 **SEC. 9. EXTENSION OF CERTAIN SAFETY REGULATION RE-**
2 **QUIREMENTS.**

3 (a) *EXTENSION OF CERTAIN SAFETY REGULATION RE-*
4 *QUIREMENTS.*—Section 50905(c)(3) is amended by striking
5 “Beginning on October 1, 2015” and inserting “Beginning
6 on October 1, 2020”.

7 (b) *CONSTRUCTION.*—Section 50905(c) is amended by
8 adding at the end the following:

9 “(5) Nothing in this subsection shall be construed
10 to limit the authority of the Secretary to discuss po-
11 tential regulatory approaches with the commercial
12 space sector, including observations, findings, and
13 recommendations from the Commercial Space Trans-
14 portation Advisory Committee, prior to the issuance
15 of a notice of proposed rulemaking.”.

16 (c) *REPORT.*—Not later than 270 days after the date
17 of enactment of this Act, the Secretary of Transportation,
18 in consultation with the commercial space sector, including
19 the Commercial Space Transportation Advisory Committee,
20 shall submit to the Committee on Commerce, Science, and
21 Transportation of the Senate and the Committee on
22 Science, Space, and Technology of the House of Representa-
23 tives a report specifying key industry metrics that might
24 indicate readiness of the commercial space sector and the
25 Department of Transportation to transition to a regulatory
26 approach under section 50905(c)(3) of title 51, United

1 *States Code, that considers space flight participant, govern-*
2 *ment astronaut, and crew safety.*

3 (d) *BIENNIAL REPORT.*—*Beginning on December 31,*
4 *2016, and biennially thereafter, the Secretary of Transpor-*
5 *tation, in consultation and coordination with the commer-*
6 *cial space sector, including the Commercial Space Trans-*
7 *portation Advisory Committee, shall submit to the Com-*
8 *mittee on Commerce, Science, and Transportation of the*
9 *Senate and the Committee on Science, Space, and Tech-*
10 *nology of the House of Representatives a report that identi-*
11 *fies the activities, described in subsections (c) and (d) of*
12 *section 50905 of title 51, United States Code, most appro-*
13 *priate for regulatory action, if any, and a proposed transi-*
14 *tion plan for such regulations.*

15 **SEC. 10. INDUSTRY VOLUNTARY CONSENSUS STANDARDS.**

16 (a) *INDUSTRY VOLUNTARY CONSENSUS STANDARDS.*—
17 *Section 50905(c), as amended in section 9 of this Act, is*
18 *further amended by adding at the end the following:*

19 “(6) *The Secretary shall continue to work with*
20 *the commercial space sector, including the Commer-*
21 *cial Space Transportation Advisory Committee, to fa-*
22 *facilitate the development of voluntary consensus stand-*
23 *ards based on recommended best practices to improve*
24 *the safety of crew, government astronauts, and space*

1 *flight participants as the commercial space sector*
2 *continues to mature.”.*

3 **(b) BIENNIAL REPORT.**—*Beginning on December 31,*
4 *2016, and biennially thereafter, the Secretary of Transpor-*
5 *tation, in consultation and coordination with the commer-*
6 *cial space sector, including the Commercial Space Trans-*
7 *portation Advisory Committee, shall submit to the Com-*
8 *mittee on Commerce, Science, and Transportation of the*
9 *Senate and the Committee on Science, Space, and Tech-*
10 *nology of the House of Representatives a report detailing*
11 *progress on the development of industry voluntary con-*
12 *sensus standards under section 50905(c)(6) of title 51,*
13 *United States Code.*

14 **SEC. 11. GOVERNMENT ASTRONAUTS.**

15 **(a) FINDINGS AND PURPOSE.**—*Section 50901(15) is*
16 *amended by inserting “, government astronauts,” after*
17 *“crew” each place it appears.*

18 **(b) DEFINITION OF GOVERNMENT ASTRONAUT.**—*Sec-*
19 *tion 50902 is amended—*

20 *(1) by redesignating paragraphs (4) through (22)*
21 *as paragraphs (7) through (25), respectively; and*

22 *(2) by inserting after paragraph (3) the fol-*
23 *lowing:*

24 *“(4) ‘government astronaut’ means an indi-*
25 *vidual who—*

1 “(A) is either—

2 “(i) an employee of the United States
3 Government, including the uniformed serv-
4 ices, engaged in the performance of a Fed-
5 eral function under authority of law or an
6 Executive act; or

7 “(ii) an international partner astro-
8 naut;

9 “(B) is identified by the Administrator of
10 the National Aeronautics and Space Administra-
11 tion;

12 “(C) is carried within a launch vehicle or
13 reentry vehicle; and

14 “(D) may perform or may not perform ac-
15 tivities directly relating to the launch, reentry,
16 or other operation of the launch vehicle or re-
17 entry vehicle.

18 “(5) ‘international partner astronaut’ means an
19 individual designated under Article 11 of the Inter-
20 national Space Station Intergovernmental Agreement,
21 by a partner to that agreement other than the United
22 States, as qualified to serve as an International
23 Space Station crew member.

24 “(6) ‘International Space Station Intergovern-
25 mental Agreement’ means the Agreement Concerning

1 *Cooperation on the International Space Station,*
2 *signed at Washington January 29, 1998 (TIAS*
3 *12927).*”.

4 (c) *DEFINITION OF LAUNCH.*—*Paragraph (7) of sec-*
5 *tion 50902, as redesignated, is amended by striking “and*
6 *any payload, crew, or space flight participant” and insert-*
7 *ing “and any payload or human being”.*

8 (d) *DEFINITION OF LAUNCH SERVICES.*—*Paragraph*
9 *(9) of section 50902, as redesignated, is amended by strik-*
10 *ing “payload, crew (including crew training), or space*
11 *flight participant” and inserting “payload, crew (including*
12 *crew training), government astronaut, or space flight par-*
13 *ticipant”.*

14 (e) *DEFINITION OF REENTER AND REENTRY.*—*Para-*
15 *graph (16) of section 50902, as redesignated, is amended*
16 *by striking “and its payload, crew, or space flight partici-*
17 *pants, if any,” and inserting “and its payload or human*
18 *beings, if any,”.*

19 (f) *DEFINITION OF REENTRY SERVICES.*—*Paragraph*
20 *(17) of section 50902, as redesignated, is amended by strik-*
21 *ing “payload, crew (including crew training), or space*
22 *flight participant, if any,” and inserting “payload, crew*
23 *(including crew training), government astronaut, or space*
24 *flight participant, if any,”.*

1 (g) *DEFINITION OF SPACE FLIGHT PARTICIPANT.*—
 2 *Paragraph (20) of section 50902, as redesignated, is amend-*
 3 *ed to read as follows:*

4 “(20) ‘space flight participant’ means an indi-
 5 vidual, who is not crew or a government astronaut,
 6 carried within a launch vehicle or reentry vehicle.”.

7 (h) *DEFINITION OF THIRD PARTY.*—*Paragraph*
 8 *(24)(E) of section 50902, as redesignated, is amended by*
 9 *inserting “, government astronauts,” after “crew”.*

10 (i) *RESTRICTIONS ON LAUNCHES, OPERATIONS, AND*
 11 *REENTRIES; SINGLE LICENSE OR PERMIT.*—*Section*
 12 *50904(d) is amended by striking “activities involving crew*
 13 *or space flight participants” and inserting “activities in-*
 14 *volving crew, government astronauts, or space flight par-*
 15 *ticipants”.*

16 (j) *LICENSE APPLICATIONS AND REQUIREMENTS; AP-*
 17 *PLICATIONS.*—*Section 50905 is amended—*

18 (1) *in subsection (a)(2), by striking “crews and*
 19 *space flight participants” and inserting “crew, gov-*
 20 *ernment astronauts, and space flight participants”;*

21 (2) *in subsection (b)(2)(D), by striking “crew or*
 22 *space flight participants” and inserting “crew, gov-*
 23 *ernment astronauts, or space flight participants”;*
 24 *and*

25 (3) *in subsection (c)—*

1 (A) in paragraph (1), by striking “crew
2 and space flight participants” and inserting
3 “crew, government astronauts, and space flight
4 participants”; and

5 (B) in paragraph (2), by striking “to crew
6 or space flight participants” each place it ap-
7 pears and inserting “to crew, government astro-
8 nauts, or space flight participants”.

9 (k) *MONITORING ACTIVITIES*.—Section 50907(a) is
10 amended by striking “crew or space flight participant
11 training” and inserting “crew, government astronaut, or
12 space flight participant training”.

13 (l) *ADDITIONAL SUSPENSIONS*.—Section 50908(d)(1)
14 is amended by striking “to crew or space flight partici-
15 pants” each place it appears and inserting “to any human
16 being”.

17 (m) *ENFORCEMENT AND PENALTY*.—Section
18 50917(b)(1)(D)(i) is amended by striking “crew or space
19 flight participant training site,” and inserting “crew, gov-
20 ernment astronaut, or space flight participant training
21 site,”.

22 (n) *RELATIONSHIP TO OTHER EXECUTIVE AGENCIES,*
23 *LAWS, AND INTERNATIONAL OBLIGATIONS; NONAPPLICA-*
24 *TION*.—Section 50919(g) is amended to read as follows:

25 “(g) *NONAPPLICATION*.—

1 “(1) *IN GENERAL.*—*This chapter does not apply*
2 *to—*

3 “(A) *a launch, reentry, operation of a*
4 *launch vehicle or reentry vehicle, operation of a*
5 *launch site or reentry site, or other space activ-*
6 *ity the Government carries out for the Govern-*
7 *ment; or*

8 “(B) *planning or policies related to the*
9 *launch, reentry, operation, or activity under sub-*
10 *paragraph (A).*

11 “(2) *RULE OF CONSTRUCTION.*—*The following*
12 *activities are not space activities the Government car-*
13 *ries out for the Government under paragraph (1):*

14 “(A) *A government astronaut being carried*
15 *within a launch vehicle or reentry vehicle under*
16 *this chapter.*

17 “(B) *A government astronaut performing*
18 *activities directly relating to the launch, reentry,*
19 *or other operation of the launch vehicle or re-*
20 *entry vehicle under this chapter.”.*

21 “(o) *RULE OF CONSTRUCTION.*—*Nothing in this Act, or*
22 *the amendments made by this Act, may be construed to*
23 *modify or affect any law relating to astronauts.*

1 **SEC. 12. STREAMLINE COMMERCIAL SPACE LAUNCH ACTIVI-**
2 **TIES.**

3 (a) *SENSE OF CONGRESS.*—*It is the sense of Congress*
4 *that eliminating duplicative requirements and approvals*
5 *for commercial launch and reentry operations will promote*
6 *and encourage the development of the commercial space sec-*
7 *tor.*

8 (b) *REAFFIRMATION OF POLICY.*—*Congress reaffirms*
9 *that the Secretary of Transportation, in overseeing and co-*
10 *ordinating commercial launch and reentry operations,*
11 *should—*

12 (1) *promote commercial space launches and reen-*
13 *tries by the private sector;*

14 (2) *facilitate Government, State, and private sec-*
15 *tor involvement in enhancing U.S. launch sites and*
16 *facilities;*

17 (3) *protect public health and safety, safety of*
18 *property, national security interests, and foreign pol-*
19 *icy interests of the United States; and*

20 (4) *consult with the head of another executive*
21 *agency, including the Secretary of Defense or the Ad-*
22 *ministrator of the National Aeronautics and Space*
23 *Administration, as necessary to provide consistent*
24 *application of licensing requirements under chapter*
25 *509 of title 51, United States Code.*

26 (c) *REQUIREMENTS.*—

1 (1) *IN GENERAL.*—*The Secretary of Transportation under section 50918 of title 51, United States*
2 *Code, and subject to section 50905(b)(2)(C) of that*
3 *title, shall consult with the Secretary of Defense, the*
4 *Administrator of the National Aeronautics and Space*
5 *Administration, and the heads of other executive*
6 *agencies, as appropriate—*

7
8 (A) *to identify all requirements that are im-*
9 *posed to protect the public health and safety,*
10 *safety of property, national security interests,*
11 *and foreign policy interests of the United States*
12 *relevant to any commercial launch of a launch*
13 *vehicle or commercial reentry of a reentry vehi-*
14 *cle; and*

15 (B) *to evaluate the requirements identified*
16 *in subparagraph (A) and, in coordination with*
17 *the licensee or transferee and the heads of the rel-*
18 *evant executive agencies—*

19 (i) *determine whether the satisfaction*
20 *of a requirement of one agency could result*
21 *in the satisfaction of a requirement of an-*
22 *other agency; and*

23 (ii) *resolve any inconsistencies and re-*
24 *move any outmoded or duplicative require-*
25 *ments or approvals of the Federal Govern-*

1 *ment relevant to any commercial launch of*
2 *a launch vehicle or commercial reentry of a*
3 *reentry vehicle.*

4 (2) *REPORTS.*—*Not later than 180 days after the*
5 *date of enactment of this Act, and annually thereafter*
6 *until the Secretary of Transportation determines no*
7 *outmoded or duplicative requirements or approvals of*
8 *the Federal Government exist, the Secretary of Trans-*
9 *portation, in consultation with the Secretary of De-*
10 *fense, the Administrator of the National Aeronautics*
11 *and Space Administration, the commercial space sec-*
12 *tor, and the heads of other executive agencies, as ap-*
13 *propriate, shall submit to the Committee on Com-*
14 *merce, Science, and Transportation of the Senate, the*
15 *Committee on Science, Space, and Technology of the*
16 *House of Representatives, and the congressional de-*
17 *fense committees a report that includes the following:*

18 (A) *A description of the process for the ap-*
19 *plication for and approval of a permit or license*
20 *under chapter 509 of title 51, United States*
21 *Code, for the commercial launch of a launch ve-*
22 *hicle or commercial reentry of a reentry vehicle,*
23 *including the identification of—*

24 (i) *any unique requirements for oper-*
25 *ating on a United States Government*

1 *launch site, reentry site, or launch property;*

2 *and*

3 *(ii) any inconsistent, outmoded, or du-*
4 *plicative requirements or approvals.*

5 *(B) A description of current efforts, if any,*
6 *to coordinate and work across executive agencies*
7 *to define interagency processes and procedures*
8 *for sharing information, avoiding duplication of*
9 *effort, and resolving common agency require-*
10 *ments.*

11 *(C) Recommendations for legislation that*
12 *may further—*

13 *(i) streamline requirements in order to*
14 *improve efficiency, reduce unnecessary costs,*
15 *resolve inconsistencies, remove duplication,*
16 *and minimize unwarranted constraints;*
17 *and*

18 *(ii) consolidate or modify requirements*
19 *across affected agencies into a single appli-*
20 *cation set that satisfies the requirements*
21 *identified in paragraph (1)(A).*

22 *(3) DEFINITIONS.—For purposes of this sub-*
23 *section—*

1 (A) any applicable definitions set forth in
2 section 50902 of title 51, United States Code,
3 shall apply;

4 (B) the terms “launch”, “reenter”, and “re-
5 entry” include landing of a launch vehicle or re-
6 entry vehicle; and

7 (C) the terms “United States Government
8 launch site” and “United States Government re-
9 entry site” include any necessary facility, at
10 that location, that is commercially operated on
11 United States Government property.

12 **SEC. 13. OPERATION AND UTILIZATION OF THE ISS.**

13 (a) *SENSE OF CONGRESS.*—It is the sense of Congress
14 that—

15 (1) maximum utilization of partnerships, sci-
16 entific research, commercial applications, and explo-
17 ration test bed capabilities of the ISS is essential to
18 ensuring the greatest return on investments made by
19 the United States and its international partners in
20 the development, assembly, and operations of that
21 unique facility; and

22 (2) every effort should be made to ensure that de-
23 cisions regarding the service life of the ISS are based
24 on the station’s projected capability to continue pro-

1 *viding effective and productive research and explo-*
2 *ration test bed capabilities.*

3 (b) *CONTINUATION OF THE INTERNATIONAL SPACE*
4 *STATION.—*

5 (1) *IN GENERAL.—Section 501 of the National*
6 *Aeronautics and Space Administration Authorization*
7 *Act of 2010 (42 U.S.C. 18351) is amended—*

8 (A) *in the heading, by striking “**THROUGH***
9 ***2020**”;* and

10 (B) *in subsection (a), by striking “through*
11 *at least 2020” and inserting “through at least*
12 *2024”.*

13 (2) *MAINTENANCE OF THE UNITED STATES SEG-*
14 *MENT AND ASSURANCE OF CONTINUED OPERATIONS*
15 *OF THE INTERNATIONAL SPACE STATION.—Section*
16 *503 of the National Aeronautics and Space Adminis-*
17 *tration Authorization Act of 2010 (42 U.S.C. 18353)*
18 *is amended—*

19 (A) *in subsection (a), by striking “through*
20 *at least September 30, 2020” and inserting*
21 *“through at least September 30, 2024”;* and

22 (B) *in subsection (b)(1), by striking “In*
23 *carrying out subsection (a), the Administrator”*
24 *and inserting “The Administrator”.*

1 (3) *RESEARCH CAPACITY ALLOCATION AND INTE-*
2 *GRATION OF RESEARCH PAYLOADS.*—Section 504(d) of
3 *the National Aeronautics and Space Administration*
4 *Authorization Act of 2010 (42 U.S.C. 18354(d)) is*
5 *amended by striking “September 30, 2020” each place*
6 *it appears and inserting “at least September 30,*
7 *2024”.*

8 (4) *MAINTAINING USE THROUGH AT LEAST*
9 *2024.*—Section 70907 is amended to read as follows:
10 **“§ 70907. Maintaining use through at least 2024**

11 “(a) *POLICY.*—*The Administrator shall take all nec-*
12 *essary steps to ensure that the International Space Station*
13 *remains a viable and productive facility capable of poten-*
14 *tial United States utilization through at least September*
15 *30, 2024.*

16 “(b) *NASA ACTIONS.*—*In furtherance of the policy*
17 *under subsection (a), the Administrator shall ensure, to the*
18 *extent practicable, that the International Space Station, as*
19 *a designated national laboratory—*

20 “(1) *remains viable as an element of overall ex-*
21 *ploration and partnership strategies and approaches;*

22 “(2) *is considered for use by all NASA mission*
23 *directorates, as appropriate, for technically appro-*
24 *priate scientific data gathering or technology risk re-*
25 *duction demonstrations; and*

1 “(3) remains an effective, functional vehicle pro-
2 viding research and test bed capabilities for the
3 United States through at least September 30, 2024.”.

4 (5) *TECHNICAL AND CONFORMING AMEND-*
5 *MENTS.—*

6 (A) *TABLE OF CONTENTS OF 2010 ACT.—The*
7 *item relating to section 501 in the table of con-*
8 *tents in section 1(b) of the National Aeronautics*
9 *and Space Administration Authorization Act of*
10 *2010 (124 Stat. 2806) is amended by striking*
11 *“through 2020”.*

12 (B) *TABLE OF CONTENTS OF CHAPTER*
13 *709.—The table of contents for chapter 709 is*
14 *amended by amending the item relating to sec-*
15 *tion 70907 to read as follows:*

“70907. Maintaining use through at least 2024.”.

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114TH CONGRESS
1ST Session

S. 1297

[Report No. 114-88]

A BILL

To update the Commercial Space Launch Act by amending title 51, United States Code, to promote competitiveness of the U.S. commercial space sector, and for other purposes.

JULY 22, 2015

Reported with an amendment