

COMMITTEE AMENDMENT

[STAFF WORKING DRAFT]

June 22, 2005

Purpose: To accommodate a number of requests for amendments received after the bill was introduced.

**IN THE COMMITTEE ON COMMERCE, SCIENCE, AND
TRANSPORTATION—109TH Cong., 1ST Sess.**

S. 1281, 109TH Congress, 1ST Session

JUNE 23, 2005

INTENDED to be proposed by Mr. STEVENS (for himself, Mr. INOUE, Mrs. HUTCHISON, and Mr. NELSON of Florida)

Viz:

1 On page 2, after the item relating to section 142, in-

2 sert the following:

Sec. 143. NASA healthcare program.

Sec. 144. Assessment of extension of data collection from Ulysses and Voyager spacecraft.

Sec. 145. Program to expand distance learning in rural underserved areas.

Sec. 146. Institutions in NASA'S minority institutions program.

Sec. 147. Aviation safety program.

Sec. 148. Atmospheric, geophysical, and rocket research authorization.

Sec. 149. Orbital debris.

Sec. 150. Continuation of certain educational programs.

Sec. 151. Establishment of the Charles "Pete" Conrad Astronomy Awards Program.

Sec. 152. GAO assessment of feasibility of Moon and Mars exploration missions.

3 On page 6, strike lines 1 through 8, and insert the

4 following:

1 (9) The United States must remain the leader
2 in aeronautics and aviation. Any erosion of this pre-
3 eminence is not in the Nation’s economic or security
4 interest. NASA should align its aerospace leadership
5 to ensure United States leadership. A national effort
6 is needed to ensure that NASA’s aeronautics pro-
7 grams are leading contributors to the Nation’s civil
8 and military aviation needs, as well as to its explo-
9 ration capabilities.

10 On page 9, line 18, strike “manner;” and insert
11 “manner, and, as part of this balanced science research
12 program, provide, to the maximum extent feasible, contin-
13 ued support and funding for the Magnetospheric
14 Multiscale Mission, SIM-Planet Quest, and Future Ex-
15 plorers programs, including determining whether these de-
16 layed missions and planned missions can be expedited to
17 meet previous schedules;”.

18 On page 10, beginning in line 9, strike “local, re-
19 gional, and tribal agencies” and insert “local, and tribal
20 governments”.

21 On page 10, line 22, strike “and”.

22 On page 11, line 3, strike “Earth.” and insert
23 “Earth; and”.

24 On page 11, between lines 3 and 4, insert the fol-
25 lowing:

1 (9) ensure that, of the amount expended for
2 aeronautics, a significant portion is directed toward
3 the Vehicle System Program, as much of the basic,
4 long-term, high-risk, and innovative research in
5 aeronautical disciplines is performed within that pro-
6 gram.

7 On page 15, line 19, after the period insert “The de-
8 velopment of this policy shall utilize external studies that
9 have been conducted on the state of United States aero-
10 nautics and aviation research and have suggested policies
11 to ensure continued competitiveness.

12 On page 16, strike lines 6 through 17.

13 On page 16, line 18, strike “(d)” and insert “(d)”.

14 On page 21, line 18, strike “systems;” and insert
15 “systems, including new satellite architectures and instru-
16 ments that enable global coverage, all-weather, day and
17 night imaging of the Earth’s surface features;”.

18 On page 22, between lines 3 and 4, insert the fol-
19 lowing:

20 **SEC. 143. NASA HEALTHCARE PROGRAM.**

21 The Administrator shall develop policies, procedures,
22 and plans necessary for—

23 (1) the establishment of a lifetime healthcare
24 program for NASA astronauts and their families;
25 and

1 **SEC. 145. PROGRAM TO EXPAND DISTANCE LEARNING IN**
2 **RURAL UNDERSERVED AREAS.**

3 (a) IN GENERAL.—The Administrator shall develop
4 or expand programs to extend science and space edu-
5 cational outreach to rural communities and schools
6 through video conferencing, interpretive exhibits, teacher
7 education, classroom presentations, and student field
8 trips.

9 (b) PRIORITIES.—In carrying out subsection (a), the
10 Administrator shall give priority to existing programs,
11 includng Challenger Learning Centers—

12 (1) that utilize community-based partnerships
13 in the field;

14 (2) that build and maintain video conference
15 and exhibit capacity;

16 (3) that travel directly to rural communities
17 and serve low-income populations; and

18 (4) with a special emphasis on increasing the
19 number of women and minorities in the science and
20 engineering professions.

21 **SEC. 146. INSTITUTIONS IN NASA'S MINORITY INSTITU-**
22 **TIONS PROGRAM.**

23 The matter appearing under the heading “SMALL
24 AND DISADVANTAGED BUSINESS” in title III of the De-
25 partments of Veterans Affairs and House and Urban De-
26 velopment, and Independent Agencies Appropriations Act,

1 1990 (42 U.S.C. 2473b; 103 Stat. 863) is amended by
2 striking “Historically Black Colleges and Universities
3 and” and inserting “Historically Black Colleges and Uni-
4 versities that are part B institutions (as defined in section
5 322(2) of the Higher Education Act of 1965 (20 U.S.C.
6 1061(2))), Hispanic-serving institutions (as defined in sec-
7 tion 502(a)(5) of that Act (20 U.S.C. 1101a(a)(5)), Tribal
8 Colleges or Universities (as defined in section 316(b)(3)
9 of that Act (20 U.S.C. 1059c(b)(3)), Alaskan Native-serv-
10 ing institutions (as defined in section 317(b)(2) of that
11 Act (20 U.S.C. 1059d(b)(2)), Native Hawaiian-serving
12 institutions (as defined in section 317(b)(4) of that Act
13 (20 U.S.C. 1059d(b)(4)), and” after “including”.

14 **SEC. 147. AVIATION SAFETY PROGRAM.**

15 The Administrator shall make available upon request
16 satellite imagery of remote terrain to the Administrator
17 of the Federal Aviation Administration, or the Director
18 of the Five Star Medallion Program, for aviation safety
19 and aerial photography programs to assist and train pilots
20 in navigating challenging topographical features of such
21 terrain.

22 **SEC. 148. ATMOSPHERIC, GEOPHYSICAL, AND ROCKET RE-**
23 **SEARCH AUTHORIZATION.**

24 There are authorized to be appropriated to the Ad-
25 ministrator for atmospheric, geophysical, or rocket re-

1 search at the Poker Flat Research Range and the Kodiak
2 Launch Complex, not more than \$1,000,000 for fiscal
3 year 2006 and each fiscal year for fiscal years 2006
4 through 2010.

5 On page 34, line 17, strike “services.” and insert
6 “services, shall emphasize the utilization by NASA of ad-
7 vancements made by the private sector in space launch
8 and orbital hardware, and shall include opportunities for
9 innovative collaborations between NASA and the private
10 sector under existing authorities of NASA for reimburs-
11 able and non-reimbursable Space Act agreements.

12 **SEC. 149. ORBITAL DEBRIS.**

13 The Administrator, in conjunction with the heads of
14 other Federal agencies, shall take steps to develop or ac-
15 quire technologies that will enable NASA to decrease the
16 risks associated with orbital debris.

17 **SEC. 150. CONTINUATION OF CERTAIN EDUCATIONAL PRO-**
18 **GRAMS.**

19 From amounts appropriated to NASA for educational
20 programs, the Administrator shall ensure continuation of
21 the Space Grant Program, the Experimental Program to
22 Stimulate Competitive Research, and the NASA Explorer
23 School to motivate and develop the next generation of ex-
24 plorers.

1 **SEC. 151. ESTABLISHMENT OF THE CHARLES “PETE”**
2 **CONRAD ASTRONOMY AWARDS PROGRAM.**

3 (a) **IN GENERAL.**—The Administrator shall establish
4 a program to be known as the Charles “Pete” Conrad As-
5 tronomy Awards Program.

6 (b) **AWARDS.**—The Administrator shall make an an-
7 nual award under the program of—

8 (1) \$3,000 to the amateur astronomer or group
9 of amateur astronomers who in the preceding cal-
10 endar year discovered the intrinsically brightest
11 near-Earth asteroid among the near-Earth asteroids
12 that were discovered during that year by amateur
13 astronomers or groups of amateur astronomers; and

14 (2) \$3,000 to the amateur astronomer or group
15 of amateur astronomers who made the greatest con-
16 tribution to the Minor Planet Center’s mission of
17 cataloging near-Earth asteroids during the preceding
18 year.

19 (c) **QUALIFICATION FOR AWARD.**—

20 (1) **RECOMMENDATION.**—These awards shall be
21 made based on the recommendation of the Minor
22 Planet Center of the Smithsonian Astrophysical Ob-
23 servatory.

24 (2) **LIMITATION.**—No individual who is not a
25 citizen or permanent resident of the United States

1 at the time of his discovery or contribution may re-
2 ceive an award under this program.

3 **SEC. 152. GAO ASSESSMENT OF FEASIBILITY OF MOON AND**
4 **MARS EXPLORATION MISSIONS.**

5 Within 9 months after the date of enactment of this
6 Act, the Comptroller General shall transmit to the Senate
7 Committee on Commerce, Science, and Transportation
8 and the House of Representatives Committee on Science
9 an assessment of the feasibility of NASA's planning for
10 exploration of the Moon and Mars, giving special consider-
11 ation to the long-term cost implications of program archi-
12 tecture and schedules.

13 On page 37, line 16, strike "\$50,000,000." and in-
14 sert "\$100,000,000."

15 On page 38, strike lines 7 through 12 and insert the
16 following:

17 It is the sense of the Congress that NASA should—

18 (1) purchase commercially available goods and
19 services to the fullest extent feasible in support of its
20 activities;

21 (2) encourage commercial use and development of
22 space to the fullest extent practicable; and

23 (3) seek to utilize space goods and services that
24 are under development by the private sector.

25 On page 44, strike lines 10 and 11.

- 1 On page 44, line 12, strike “(3)” and insert “(2)”.
- 2 On page 44, line 15, strike “(4)” and insert “(3)”.
- 3 On page 44, line 17, strike “(5)” and insert “(4)”.

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