

engineering, and mathematics program using commercial orbital platforms; and

(4) identify the issues that would need to be addressed before NASA could properly assess the merits and feasibility of the program described in paragraph (2).

(Pub. L. 111-267, title X, §1003, Oct. 11, 2010, 124 Stat. 2838; Pub. L. 111-358, title II, §205(a), Jan. 4, 2011, 124 Stat. 3995.)

#### AMENDMENTS

2011—Pub. L. 111-358 amended section generally. Prior to amendment, text read as follows: “A fundamental and unique capability of NASA is in stimulating science, technology, engineering, and mathematics education in the United States. In ensuring maximum use of that capability, NASA shall—

“(1) establish a program to annually sponsor scientific and educational payloads developed with United States student and educator involvement to be flown on commercially available orbital platforms, when available and operational, with the goal of launching at least 50 such payloads (with at least one from each of the 50 States) to orbit on at least one mission per year;

“(2) contract with providers of commercial orbital platform services for their use by the STEM-Commercial Orbital Platform program, preceded by the issuance of a request for proposal, not later than 90 days after October 11, 2010, to enter into at least one funded, competitively-awarded contract for commercial orbital platform services and make awards within 180 days after such date; and

“(3) engage with United States students and educators and make available NASA’s science, engineering, payload development, and payload operations expertise to student teams selected to participate in the STEM-Commercial Orbital Platform program.”

#### EFFECTIVE DATE OF 2011 AMENDMENT

Pub. L. 111-358, title II, §205(c), Jan. 4, 2011, 124 Stat. 3996, provided that: “The amendment made by subsection (a) [amending this section] shall take effect on October 12, 2010.”

### SUBCHAPTER X—RE-SCOPING AND REVITALIZING INSTITUTIONAL CAPABILITIES

#### § 18431. Workforce stabilization and critical skills preservation

Prior to receipt by the Congress of the study, recommendations, and implementation strategy developed pursuant to section 1103,<sup>1</sup> none of the funds authorized for use under this Act may be used to transfer the functions, missions, or activities, and associated civil service and contractor positions, from any NASA facility without authorization by the Congress to implement the proposed strategy. The Administrator shall preserve the critical skills and competencies in place at NASA centers prior to October 11, 2010, in order to facilitate timely implementation of the requirements of this chapter and to minimize disruption to the workforce. The Administrator may not implement any reduction-in-force or other involuntary separations of permanent, non-Senior-Executive-Service, civil servant employees before September 30, 2013, except for cause on charges of misconduct, delinquency, or inefficiency.

(Pub. L. 111-267, title XI, §1105, Oct. 11, 2010, 124 Stat. 2840.)

<sup>1</sup> See References in Text note below.

#### REFERENCES IN TEXT

Section 1103, referred to in text, is Pub. L. 111-267, title XI, §1103, Oct. 11, 2010, 124 Stat. 2840, which is not classified to the Code.

This Act, referred to in text, is Pub. L. 111-267, Oct. 11, 2010, 124 Stat. 2805, known as the National Aeronautics and Space Administration Authorization Act of 2010, which enacted this chapter (§18301 et seq.) and various other provisions, including provisions authorizing appropriations, which were not classified to the Code. For complete classification of this Act to the Code, see Short Title note set out under section 18301 of this title and Tables.

### SUBCHAPTER XI—OTHER MATTERS

#### § 18441. National and international orbital debris mitigation

##### (a) Findings

Congress makes the following findings:

(1) A national and international effort is needed to develop a coordinated approach towards the prevention, negation, and removal of orbital debris.

(2) The guidelines issued by the Inter-Agency Space Debris Coordination Committee provide a consensus understanding of 10 national space agencies (including NASA) plus the European Space Agency on the necessity of mitigating the creation of space debris and measures for doing so. NASA’s participation on the Committee should be robust, and NASA should urge other space-relevant Federal agencies (including the Departments of State, Defense, and Commerce) to work to ensure that their counterpart agencies in foreign governments are aware of these national commitments and the importance in which the United States holds them.

(3) Key components of such an approach should include—

(A) a process for debris prevention through agreements regarding spacecraft design, operations, and end-of-life disposition plans to minimize orbiting vehicles or elements which are nonfunctional;

(B) the development of a robust Space Situational Awareness network that can identify potential collisions and provide sufficient trajectory and orbital data to enable avoidance maneuvers;

(C) the interagency development of an overall strategy for review by the President, with recommendations for proposed international collaborative efforts to address this challenge.

##### (b) International discussion

###### (1) In general

The Administrator shall, in consultation with such other departments and agencies of the Federal Government as the Administrator considers appropriate, continue and strengthen discussions with the representatives of other space-faring countries, within the Inter-Agency Space Debris Coordination Committee and elsewhere, to deal with this orbital debris mitigation.

###### (2) Interagency effort

For purposes of carrying out this subsection, the Director of OSTP, in coordination with the