

to use space resources to increase independence from Earth, and sustain exploration beyond low-Earth orbit; and

(4) pursue aggressively automated rendezvous and docking capabilities that can support the International Space Station and other mission requirements.

(Pub. L. 111-314, §3, Dec. 18, 2010, 124 Stat. 3430.)

HISTORICAL AND REVISION NOTES

| <i>Revised Section</i> | <i>Source (U.S. Code)</i> | <i>Source (Statutes at Large)</i>                              |
|------------------------|---------------------------|--|
| 70502 .....            | 42 U.S.C. 16763.          | Pub. L. 109-155, title V, §503, Dec. 30, 2005, 119 Stat. 2929. |

**§ 70503. Ground-based analog capabilities**

(a) IN GENERAL.—The Administrator may establish a ground-based analog capability in remote United States locations in order to assist in the development of lunar operations, life support, and in-situ resource utilization experience and capabilities.

(b) ENVIRONMENTAL CHARACTERISTICS.—The Administrator shall select locations for the activities described in subsection (a) that—

- (1) are regularly accessible;
- (2) have significant temperature extremes and range; and
- (3) have access to energy and natural resources (including geothermal, permafrost, volcanic, or other potential resources).

(c) INVOLVEMENT OF LOCAL POPULATIONS AND PRIVATE SECTOR PARTNERS.—In carrying out this section, the Administrator shall involve local populations, academia, and industrial partners as much as possible to ensure that ground-based benefits and applications are encouraged and developed.

(Pub. L. 111-314, §3, Dec. 18, 2010, 124 Stat. 3430.)

HISTORICAL AND REVISION NOTES

| <i>Revised Section</i> | <i>Source (U.S. Code)</i> | <i>Source (Statutes at Large)</i>                              |
|------------------------|---------------------------|--|
| 70503 .....            | 42 U.S.C. 16764.          | Pub. L. 109-155, title V, §504, Dec. 30, 2005, 119 Stat. 2929. |

**§ 70504. Stepping stone approach to exploration**

In order to maximize the cost-effectiveness of the long-term exploration and utilization activities of the United States, the Administrator shall take all necessary steps, including engaging international partners, to ensure that activities in its lunar exploration program shall be designed and implemented in a manner that gives strong consideration to how those activities might also help meet the requirements of future exploration and utilization activities beyond the Moon. The timetable of the lunar phase of the long-term international exploration initiative shall be determined by the availability of funding. However, once an exploration-related project enters its development phase, the Administrator shall seek, to the maximum extent practicable, to complete that project without undue delays.

(Pub. L. 111-314, §3, Dec. 18, 2010, 124 Stat. 3431.)

HISTORICAL AND REVISION NOTES

| <i>Revised Section</i> | <i>Source (U.S. Code)</i> | <i>Source (Statutes at Large)</i>                               |
|------------------------|---------------------------|---|
| 70504 .....            | 42 U.S.C. 17731.          | Pub. L. 110-422, title IV, §403, Oct. 15, 2008, 122 Stat. 4789. |

**§ 70505. Lunar outpost**

(a) ESTABLISHMENT.—As the Administration works toward the establishment of a lunar outpost, the Administration shall make no plans that would require a lunar outpost to be occupied to maintain its viability. Any such outpost shall be operable as a human-tended facility capable of remote or autonomous operation for extended periods.

(b) DESIGNATION.—The United States portion of the first human-tended outpost established on the surface of the Moon shall be designated the “Neil A. Armstrong Lunar Outpost”.

(Pub. L. 111-314, §3, Dec. 18, 2010, 124 Stat. 3431.)

HISTORICAL AND REVISION NOTES

| <i>Revised Section</i> | <i>Source (U.S. Code)</i> | <i>Source (Statutes at Large)</i>                                       |
|------------------------|---------------------------|---|
| 70505(a) .....         | 42 U.S.C. 17732(a).       | Pub. L. 110-422, title IV, §404(a), (b), Oct. 15, 2008, 122 Stat. 4789. |
| 70505(b) .....         | 42 U.S.C. 17732(b).       |   |

**§ 70506. Exploration technology research**

The Administrator shall carry out a program of long-term exploration-related technology research and development, including such things as in-space propulsion, power systems, life support, and advanced avionics, that is not tied to specific flight projects. The program shall have the funding goal of ensuring that the technology research and development can be completed in a timely manner in order to support the safe, successful, and sustainable exploration of the solar system. In addition, in order to ensure that the broadest range of innovative concepts and technologies are captured, the long-term technology program shall have the goal of having a significant portion of its funding available for external grants and contracts with universities, research institutions, and industry.

(Pub. L. 111-314, §3, Dec. 18, 2010, 124 Stat. 3431.)

HISTORICAL AND REVISION NOTES

| <i>Revised Section</i> | <i>Source (U.S. Code)</i> | <i>Source (Statutes at Large)</i>                                  |
|------------------------|---------------------------|--|
| 70506 .....            | 42 U.S.C. 17733(b).       | Pub. L. 110-422, title IV, §405(b), Oct. 15, 2008, 122 Stat. 4789. |

PURPOSE

Pub. L. 110-422, title IV, §405(a), Oct. 15, 2008, 122 Stat. 4789, provided that: “A robust program of long-term exploration-related technology research and development will be essential for the success and sustainability of any enduring initiative of human and robotic exploration of the solar system.”

INNOVATIVE TECHNOLOGIES FOR HUMAN SPACE FLIGHT

Pub. L. 106-391, title III, §313, Oct. 30, 2000, 114 Stat. 1594, provided that:

“(a) ESTABLISHMENT OF PROGRAM.—In order to promote a ‘faster, cheaper, better’ approach to the human exploration and development of space, the Adminis-