

and an indication of any actions taken as a result of the meetings or communications; and

(4) current predictions of the lifespan of the Federal Helium System, including how much longer the crude helium supply will be available based on current and forecasted demand and the projected maximum production capacity of the Federal Helium System for the following fiscal year.

(Mar. 3, 1925, ch. 426, §15, as added Pub. L. 113-40, §6(3), Oct. 2, 2013, 127 Stat. 541.)

#### Editorial Notes

##### PRIOR PROVISIONS

A prior section 167m, act Mar. 3, 1925, ch. 426, §15, as added Pub. L. 86-777, §2, Sept. 13, 1960, 74 Stat. 923; amended Pub. L. 104-273, §7, Oct. 9, 1996, 110 Stat. 3319, related to a National Academy of Sciences study and report on helium, prior to repeal by Pub. L. 113-40, §6(1), Oct. 2, 2013, 127 Stat. 540.

### § 167n. Helium gas resource assessment

#### (a) In general

Not later than 2 years after October 2, 2013, the Secretary, acting through the Director of the United States Geological Survey, shall—

(1) in coordination with appropriate heads of State geological surveys—

(A) complete a national helium gas assessment that identifies and quantifies the quantity of helium, including the isotope helium-3, in each reservoir, including assessments of the constituent gases found in each helium resource, such as carbon dioxide, nitrogen, and natural gas; and

(B) make available the modern seismic and geophysical log data for characterization of the Bush Dome Reservoir;

(2) in coordination with appropriate international agencies and the global geology community, complete a global helium gas assessment that identifies and quantifies the quantity of the helium, including the isotope helium-3, in each reservoir;

(3) in coordination with the Secretary of Energy, acting through the Administrator of the Energy Information Administration, complete—

(A) an assessment of trends in global demand for helium, including the isotope helium-3;

(B) a 10-year forecast of domestic demand for helium across all sectors, including scientific and medical research, commercial, manufacturing, space technologies, cryogenics, and national defense; and

(C) an inventory of medical, scientific, industrial, commercial, and other uses of helium in the United States, including Federal uses, that identifies the nature of the helium use, the amounts required, the technical and commercial viability of helium recapture and recycling in that use, and the availability of material substitutes wherever possible; and

(4) submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Natural Resources of the House of Representatives a report describing the results

of the assessments required under this paragraph.

#### (b) Authorization of appropriations

There is authorized to be appropriated to carry out this section \$1,000,000.

(Mar. 3, 1925, ch. 426, §16, as added Pub. L. 113-40, §6(3), Oct. 2, 2013, 127 Stat. 542.)

#### Editorial Notes

##### PRIOR PROVISIONS

A prior section 167n, act Mar. 3, 1925, ch. 426, §16, as added Pub. L. 86-777, §2, Sept. 13, 1960, 74 Stat. 923, directed the Secretary of the Interior to make annual reports to Congress, prior to repeal by Pub. L. 105-362, title IX, §901(q), Nov. 10, 1998, 112 Stat. 3291.

### § 167o. Low-Btu gas separation and helium conservation

#### (a) Authorization

The Secretary of Energy shall support programs of research, development, commercial application, and conservation (including the programs described in subsection (b))—

(1) to expand the domestic production of low-Btu gas and helium resources;

(2) to separate and capture helium from natural gas streams; and

(3) to reduce the venting of helium and helium-bearing low-Btu gas during natural gas exploration and production.

#### (b) Programs

##### (1) Membrane technology research

The Secretary of Energy, in consultation with other appropriate agencies, shall support a civilian research program to develop advanced membrane technology that is used in the separation of low-Btu gases, including technologies that remove helium and other constituent gases that lower the Btu content of natural gas.

##### (2) Helium separation technology

The Secretary of Energy shall support a research program to develop technologies for separating, gathering, and processing helium in low concentrations that occur naturally in geological reservoirs or formations, including—

(A) low-Btu gas production streams; and

(B) technologies that minimize the atmospheric venting of helium gas during natural gas production.

##### (3) Industrial helium program

The Secretary of Energy, working through the Advanced Manufacturing Office of the Department of Energy, shall carry out a research program—

(A) to develop low-cost technologies and technology systems for recycling, reprocessing, and reusing helium for all medical, scientific, industrial, commercial, aerospace, and other uses of helium in the United States, including Federal uses; and

(B) to develop industrial gathering technologies to capture helium from other chemical processing, including ammonia processing.

**(c) Authorization of appropriations**

There is authorized to be appropriated to carry out this section \$3,000,000.

(Mar. 3, 1925, ch. 426, § 17, as added Pub. L. 113–40, § 6(3), Oct. 2, 2013, 127 Stat. 542.)

**Editorial Notes****PRIOR PROVISIONS**

A prior section 17 of act Mar. 3, 1925, ch. 426, was redesignated section 20 and is set out as a Separability note under section 167 of this title.

**§ 167p. Helium-3 separation****(a) Interagency cooperation**

The Secretary shall cooperate with the Secretary of Energy, or a designee, on any assessment or research relating to the extraction and refining of the isotope helium-3 from crude helium and other potential sources, including—

- (1) gas analysis; and
- (2) infrastructure studies.

**(b) Feasibility study**

The Secretary, in consultation with the Secretary of Energy, or a designee, may carry out a study to assess the feasibility of—

- (1) establishing a facility to separate the isotope helium-3 from crude helium; and
- (2) exploring other potential sources of the isotope helium-3.

**(c) Report**

Not later than 1 year after October 2, 2013, the Secretary shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Natural Resources of the House of Representatives a report that contains a description of the results of the assessments conducted under this section.

**(d) Authorization of appropriations**

There is authorized to be appropriated to carry out this section \$1,000,000.

(Mar. 3, 1925, ch. 426, § 18, as added Pub. L. 113–40, § 6(3), Oct. 2, 2013, 127 Stat. 543.)

**§ 167q. Federal agency helium acquisition strategy**

In anticipation of the implementation of Phase D described in section 167d(d) of this title, and not later than 2 years after October 2, 2013, the Secretary (in consultation with the Secretary of Energy, the Secretary of Defense, the Director of the National Science Foundation, the Administrator of the National Aeronautics and Space Administration, the Director of the National Institutes of Health, and other agencies as appropriate) shall submit to Congress a report that provides for Federal users—

- (1) an assessment of the consumption of, and projected demand for, crude and refined helium;
- (2) a description of a 20-year Federal strategy for securing access to helium;
- (3) a determination of a date prior to September 30, 2021, for the implementation of Phase D as described in section 167d(d) of this title that minimizes any potential supply disruptions for Federal users;

(4) an assessment of the effects of increases in the price of refined helium and methods and policies for mitigating any determined effects; and

(5) a description of a process for prioritization of uses that accounts for diminished availability of helium supplies that may occur over time.

(Mar. 3, 1925, ch. 426, § 19, as added Pub. L. 113–40, § 6(3), Oct. 2, 2013, 127 Stat. 544.)

**CHAPTER 11—ACQUISITION OF AND EXPENDITURES ON LAND FOR NATIONAL-DEFENSE PURPOSES****§§ 171, 171–1. Repealed. Aug. 10, 1956, ch. 1041, § 53, 70A Stat. 641**

Section 171, acts Aug. 18, 1890, ch. 797, § 1, 26 Stat. 316; July 2, 1917, ch. 35, 40 Stat. 241; Apr. 11, 1918, ch. 51, 40 Stat. 518, authorized Secretary of War to institute condemnation proceedings for acquisition of land, to purchase land, and to accept donations of land. See section 2663 of Title 10, Armed Forces.

Section 171–1, act Oct. 25, 1951, ch. 563, § 101, 65 Stat. 641, granted certain condemnation authority to Secretary of Navy. See sections 2663 and 2668 of Title 10.

**§ 171a. Omitted****Editorial Notes****CODIFICATION**

Section, act July 2, 1917, ch. 35, § 2, as added Mar. 27, 1942, ch. 199, title II, § 201, 56 Stat. 177, related to acquisition of real property during war, and terminated on Dec. 28, 1945 by act Mar. 27, 1942, ch. 199, title II, § 202, as added Dec. 28, 1945, ch. 590, § 1(a), 59 Stat. 658.

**§ 171b. Repealed. Pub. L. 85–861, § 36A, Sept. 2, 1958, 72 Stat. 1570**

Section, acts Aug. 3, 1956, ch. 939, title IV, § 406, 70 Stat. 1015; Aug. 20, 1958, Pub. L. 85–685, title V, § 510, 72 Stat. 662, related to acquisition of land not exceeding \$5,000 in cost.

**§§ 172, 173. Repealed. Aug. 10, 1956, ch. 1041, § 53, 70A Stat. 641**

Section 172, act July 9, 1918, ch. 143, subch. XV § 8, 40 Stat. 888, related to acquisition of property for production of lumber. See section 2665 of Title 10, Armed Forces.

Section 173, act Apr. 28, 1904, ch. 1762, § 1, 33 Stat. 497, related to purchase of land for quarters and barracks in addition to sites for fortifications.

**§ 174. Omitted****Editorial Notes****CODIFICATION**

Section, act Aug. 18, 1890, ch. 797, § 1, 26 Stat. 316, provided that nothing contained in former section 171 of this title should be construed to authorize an expenditure or involve the Government in any contract for future payment of money in excess of sums appropriated therefor.

**§ 175. Transferred****Editorial Notes****CODIFICATION**

Section, R.S. § 355; June 28, 1930, ch. 710, 46 Stat. 828; Feb. 1, 1940, ch. 18, 54 Stat. 19; Oct. 9, 1940, ch. 793, 54