### Calendar No. 598

116TH CONGRESS 2D SESSION

# S. 4897

To reestablish United States global leadership in nuclear energy, revitalize domestic nuclear energy supply chain infrastructure, support the licensing of advanced nuclear technologies, and improve the regulation of nuclear energy, and for other purposes.

#### IN THE SENATE OF THE UNITED STATES

NOVEMBER 16, 2020

Mr. Barrasso (for himself, Mr. Whitehouse, Mr. Crapo, Mr. Booker, and Mrs. Capito) introduced the following bill; which was read twice and referred to the Committee on Environment and Public Works

**DECEMBER 2, 2020** 

Reported by Mr. BARRASSO, with an amendment

[Strike out all after the enacting clause and insert the part printed in italic]

#### A BILL

To reestablish United States global leadership in nuclear energy, revitalize domestic nuclear energy supply chain infrastructure, support the licensing of advanced nuclear technologies, and improve the regulation of nuclear energy, 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,

#### SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

- 2 (a) SHORT TITLE.—This Act may be eited as the
- 3 "American Nuclear Infrastructure Act of 2020".
- 4 (b) Table of Contents for
- 5 this Act is as follows:
  - Sec. 1. Short title; table of contents.
  - Sec. 2. Definitions.

### TITLE I—REESTABLISHING AMERICAN INTERNATIONAL COMPETITIVENESS AND GLOBAL LEADERSHIP

- Sec. 101. International nuclear reactor export and innovation activities.
- Sec. 102. Denial of certain domestic licenses for national security purposes.

### TITLE H—EXPANDING NUCLEAR ENERGY THROUGH ADVANCED NUCLEAR TECHNOLOGIES

- Sec. 201. Advanced nuclear reactor project environmental reviews.
- Sec. 202. Advanced nuclear reactor prizes.
- Sec. 203. New nuclear energy project application reviews.
- Sec. 204. Report on unique licensing considerations relating to the use of nuclear energy for nonelectric applications.
- Sec. 205. Enabling preparations for the demonstration of advanced nuclear reactors on Department sites.
- Sec. 206. Regulatory requirements for micro-reactors.

### TITLE III—PRESERVING EXISTING NUCLEAR ENERGY GENERATION

- Sec. 301. Nuclear reactor incentives.
- See. 302. Report on lessons learned during the COVID-19 public health emergency.
- Sec. 303. Investment by allies.

## TITLE IV—REVITALIZING AMERICA'S NUCLEAR SUPPLY CHAIN INFRASTRUCTURE

- Sec. 401. Advanced nuclear fuel approval.
- Sec. 402. National strategic uranium reserve.
- Sec. 403. Report on advanced methods of manufacturing and construction for nuclear energy applications.

#### TITLE V—MISCELLANEOUS

- Sec. 501. Nuclear energy workforce development.
- Sec. 502. Annual report on the spent nuclear fuel and high-level radioactive waste inventory in the United States.
- Sec. 503. Authorization of appropriations for superfund actions at abandoned mining sites on Tribal land.
- Sec. 504. Technical correction.

#### **SEC. 2. DEFINITIONS.**

2	In this Act:
3	(1) ACCIDENT TOLERANT FUEL.—The term
4	"accident tolerant fuel" has the meaning given the
5	term in section 107(a) of the Nuclear Energy Inno-
6	vation and Modernization Act (Public Law 115-439;
7	132 Stat. 5577).
8	(2) Administrator.—The term "Adminis-
9	trator" means the Administrator of the Environ-
10	mental Protection Agency.
11	(3) ADVANCED NUCLEAR FUEL.—The term
12	"advanced nuclear fuel" means—
13	(A) advanced nuclear reactor fuel (as de-
14	fined in section 3 of the Nuclear Energy Inno-
15	vation and Modernization Act (42 U.S.C. 2215
16	note; Public Law 115-439)); and
17	(B) accident tolerant fuel.
18	(4) ADVANCED NUCLEAR REACTOR.—The term
19	"advanced nuclear reactor" has the meaning given
20	the term in section 3 of the Nuclear Energy Innova-
21	tion and Modernization Act (42 U.S.C. 2215 note;
22	Public Law 115-439).
23	(5) Appropriate committees of con-
24	GRESS.—The term "appropriate committees of Con-
25	gress" means—

1	(A) the Committee on Environment and
2	Public Works of the Senate; and
3	(B) the Committee on Energy and Com-
4	merce of the House of Representatives.
5	(6) CHAIRMAN.—The term "Chairman" means
6	the Chairman of the Nuclear Regulatory Commis-
7	sion.
8	(7) Commission.—The term "Commission"
9	means the Nuclear Regulatory Commission.
10	(8) DEPARTMENT.—The term "Department"
11	means the Department of Energy.
12	(9) Early site permit.—The term "early site
13	permit" has the meaning given the term in section
14	52.1 of title 10, Code of Federal Regulations (or a
15	successor regulation).
16	(10) High-assay, Low-enriched Uranium.—
17	The term "high-assay, low-enriched uranium" means
18	uranium with an assay greater than 5 weight per-
19	cent, but less than 20 weight percent, of the ura-
20	nium-235 isotope.
21	(11) Institution of higher education.—
22	The term "institution of higher education" has the
23	meaning given the term in section 101(a) of the
24	Higher Education Act of 1965 (20 U.S.C. 1001(a)).

1	(12) Micro-reactor.—The term "micro-reac-
2	tor" means an advanced nuclear reactor that has a
3	power production capacity that is not greater than
4	20 megawatts.
5	(13) NATIONAL LABORATORY.—The term "Na-
6	tional Laboratory" has the meaning given the term
7	in section 2 of the Energy Policy Act of 2005 (42
8	<del>U.S.C.</del> 15801).
9	(14) Removal; Remedial action.—The terms
10	"removal" and "remedial action" have the meanings
11	given those terms in section 101 of the Comprehen-
12	sive Environmental Response, Compensation, and
13	Liability Act of 1980 (42 U.S.C. 9601).
14	(15) Secretary.—The term "Secretary"
15	means the Secretary of Energy.
16	(16) Tribal Land.—The term "Tribal land"
17	has the meaning given the term "Indian country" in
18	section 1151 of title 18, United States Code.
19	TITLE I—REESTABLISHING
20	AMERICAN INTERNATIONAL
21	COMPETITIVENESS AND
22	GLOBAL LEADERSHIP
23	SEC. 101. INTERNATIONAL NUCLEAR REACTOR EXPORT
24	AND INNOVATION ACTIVITIES.
25	(a) Coordination.—

1	(1) In General.—The Commission shall—
2	(A) coordinate all work of the Commission
3	relating to—
4	(i) nuclear reactor import and export
5	licensing; and
6	(ii) international regulatory coopera-
7	tion and assistance relating to nuclear re-
8	actors, including with countries that are
9	members of the Organisation for Economic
10	Co-operation and Development; and
11	(B) support interagency and international
12	coordination with respect to—
13	(i) the consideration of international
14	technical standards to establish the licens-
15	ing and regulatory basis to assist the de-
16	sign, construction, and operation of nu-
17	<del>clear systems;</del>
18	(ii) efforts to help build competent nu-
19	clear regulatory organizations and legal
20	frameworks in countries seeking to develop
21	nuclear power; and
22	(iii) exchange programs and training
23	provided to other countries relating to nu-
24	clear regulation and oversight to improve

1	nuclear technology licensing, in accordance
2	with paragraph $(2)$ .
3	(2) Exchange Programs and Training.—
4	With respect to the exchange programs and training
5	described in paragraph (1)(B)(iii), the Commission
6	shall coordinate, as applicable, with—
7	(A) the Secretary;
8	(B) National Laboratories;
9	(C) the private sector; and
10	(D) institutions of higher education.
11	(b) AUTHORITY TO ESTABLISH BRANCH.—The Com-
12	mission may establish within the Office of International
13	Programs a branch, to be known as the "International
14	Nuclear Reactor Export and Innovation Branch", to carry
15	out such international nuclear reactor export and innova-
16	tion activities as the Commission determines to be appro-
17	priate and within the mission of the Commission.
18	(e) Exclusion of International Activities
19	From the Fee Base.—
20	(1) In General.—Section 102 of the Nuclear
21	Energy Innovation and Modernization Act (42)
22	U.S.C. 2215) is amended—
23	(A) in subsection (a), by adding at the end
24	the following:

1	"(4) International nuclear reactor ex-
2	PORT AND INNOVATION ACTIVITIES.—The Commis-
3	sion shall identify in the annual budget justification
4	international nuclear reactor export and innovation
5	activities described in section 101(a) of the Amer-
6	ican Nuclear Infrastructure Act of 2020."; and
7	(B) in subsection (b)(1)(B), by adding at
8	the end the following:
9	"(iv) Costs for international nuclear
10	reactor export and innovation activities de-
11	scribed in section 101(a) of the American
12	Nuclear Infrastructure Act of 2020.".
13	(2) Effective date.—The amendments made
14	by paragraph (1) shall take effect on October 1,
15	<del>2021.</del>
16	(d) SAVINGS CLAUSE.—Nothing in this section alters
17	the authority of the Commission to license and regulate
18	the eivilian use of radioactive materials.
19	SEC. 102. DENIAL OF CERTAIN DOMESTIC LICENSES FOR
20	NATIONAL SECURITY PURPOSES.
21	(a) Definition of Covered Fuel.—In this sec-
22	tion, the term "covered fuel" means enriched uranium
23	that is fabricated into fuel assemblies for nuclear reactors
24	by an entity that—

1	(1) is owned or controlled by the Government of
2	the Russian Federation or the Government of the
3	People's Republic of China; or
4	(2) is organized under the laws of, or otherwise
5	subject to the jurisdiction of, the Russian Federation
6	or the People's Republic of China.
7	(b) Prohibition on Unlicensed Possession or
8	OWNERSHIP OF COVERED FUEL.—Unless specifically au-
9	thorized by the Commission in a license issued under sec-
10	tion 53 of the Atomic Energy Act of 1954 (42 U.S.C.
11	2073) and part 70 of title 10, Code of Federal Regulations
12	(or successor regulations), no person subject to the juris-
13	diction of the Commission may possess or own covered
14	<del>fuel.</del>
15	(e) License To Possess or Own Covered
16	Fuel.—
17	(1) Consultation required prior to
18	ISSUANCE.—The Commission shall not issue a li-
19	cense to possess or own covered fuel under section
20	53 of the Atomic Energy Act of 1954 (42 U.S.C.
21	2073) and part 70 of title 10, Code of Federal Reg-
22	ulations (or successor regulations), unless the Com-
23	mission has first consulted with the Secretary and
24	the Secretary of State before issuing the license.

(2) PROHIBITION ON ISSUANCE OF LICENSE.—

25

1	(A) In General.—Subject to subpara-
2	graph (C), a license to possess or own covered
3	fuel shall not be issued if the Secretary and the
4	Secretary of State make the determination de-
5	scribed in subparagraph (B).
6	(B) DETERMINATION.—
7	(i) In General.—The determination
8	referred to in subparagraph (A) is a deter-
9	mination that possession or ownership, as
10	applicable, of covered fuel poses a threat to
11	the national security of the United States
12	that adversely impacts the physical and
13	economic security of the United States.
14	(ii) Joint Determination.—A deter-
15	mination described in clause (i) shall be
16	jointly made by the Secretary and the Sec-
17	retary of State.
18	(iii) TIMELINE.—
19	(I) NOTICE OF APPLICATION.—
20	Not later than 30 days after the date
21	on which the Commission receives an
22	application for a license to possess or
23	own covered fuel, the Commission
24	shall notify the Secretary and the Sec-
25	retary of State of the application.

1	(II) DETERMINATION.—The Sec-
2	retary and the Secretary of State shall
3	have a period of 120 days, beginning
4	on the date on which the Commission
5	notifies the Secretary and the Sec-
6	retary of State under subclause (I) of
7	an application for a license to possess
8	or own covered fuel, in which to make
9	the determination described in clause
10	<del>(i).</del>
11	(III) Commission Notifica-
12	TION.—On making the determination
13	described in clause (i), the Secretary
14	and the Secretary of State shall im-
15	mediately notify the Commission.
16	(IV) Congressional Notifica-
17	TION.—Not later than 30 days after
18	the date on which the Secretary and
19	the Secretary of State notify the Com-
20	mission under subclause (III), the
21	Commission shall notify the appro-
22	priate committees of Congress of the
23	determination.
24	(V) Public Notice.—Not later
25	than 15 days after the date on which

1	the Commission notifies Congress
2	under subclause (IV) of a determina-
3	tion made under clause (i), the Com-
4	mission shall make that determination
5	publicly available.
6	(C) EFFECT OF NO DETERMINATION.
7	The prohibition described in subparagraph (A)
8	shall not apply if the Secretary and the Sec-
9	retary of State do not make the determination
10	described in subparagraph (B) by the date de-
11	scribed in clause (iii)(II) of that subparagraph.
12	(d) Savings Clause. Nothing in this section alters
13	any treaty or international agreement in effect on the date
14	of enactment of this Act.
15	TITLE II—EXPANDING NUCLEAR
16	ENERGY THROUGH AD-
17	VANCED NUCLEAR TECH-
18	NOLOGIES
19	SEC. 201. ADVANCED NUCLEAR REACTOR PROJECT ENVI-
20	RONMENTAL REVIEWS.
1	TOTMENTAL REVIEWS.
21	(a) Definition of Environmental Review Proc-
22	(a) Definition of Environmental Review Proc-
	(a) Definition of Environmental Review Proc-
22 23	(a) Definition of Environmental Review Proc- Ess.—In this section, the term "environmental review

1 (b) REPORT.—Not later than 1 year after the date on which the Commission issues the third operating or combined license for an advanced nuclear reactor, the 3 4 Commission shall submit to the appropriate committees 5 of Congress a report that— 6 (1) describes— 7 (A) any differences between the environmental review process for nuclear reactors li-8 9 censed and in operation as of the date of enactment of this Act and the environmental review 10 11 process for advanced nuclear reactors; 12 (B) ways in which the environmental re-13 view process for advanced nuclear reactors 14 could be improved by reducing or eliminating 15 duplicative requirements or requirements that 16 are not applicable to advanced nuclear reactor 17 designs; and 18 (C) ways in which environmental regula-19 tions other than those promulgated under the 20 National Environmental Policy Act of 1969 (42) 21 U.S.C. 4321 et seq.) could be integrated into 22 the environmental review process for advanced 23 nuclear reactors to reduce the environmental

impacts of advanced nuclear reactors; and

24

1	(2) includes an assessment by the Commission
2	of whether it would be beneficial—
3	(A) to revise the applicable environmental
4	review process for advanced nuclear reactors; or
5	(B) to promulgate new regulations to es-
6	tablish a technology inclusive, risk-informed en-
7	vironmental review process for advanced nuclear
8	reactors.
9	SEC. 202. ADVANCED NUCLEAR REACTOR PRIZES.
10	Section 103 of the Nuclear Energy Innovation and
11	Modernization Act (Public Law 115-439; 132 Stat. 5571)
12	is amended by adding at the end the following:
13	"(f) PRIZES FOR ADVANCED NUCLEAR REACTOR LI-
14	CENSING.
15	"(1) Prize for advanced nuclear reactor
16	LICENSING.
17	"(A) In General.—Subject to the avail-
18	ability of appropriations, the Secretary is au-
19	thorized to make, with respect to each award
20	eategory described in subparagraph (C), an
21	award in an amount described in subparagraph
22	(B) to the first non-Federal entity to which the
23	Commission issues—
24	"(i) an operating license for an ad-
25	vanced nuclear reactor under part 50 of

1	title 10, Code of Federal Regulations (or
2	successor regulations), for which an appli-
3	cation has not been approved by the Com-
4	mission as of the date of enactment of this
5	subsection; or
6	"(ii) a finding required under section
7	52.103(g) of title 10, Code of Federal Reg-
8	ulations (or successor regulations), for a
9	combined license for an advanced nuclear
10	<del>reactor—</del>
11	"(I) that is issued under subpart
12	C of part 52 that title (or successor
13	regulations); and
14	"(II) for which an application
15	has not been approved by the Com-
16	mission as of the date of enactment of
17	this subsection.
18	"(B) Amount of Award.—An award
19	under subparagraph (A) shall be in an amount
20	equal to the total amount assessed by the Com-
21	mission and collected under section 102(b)(2)
22	from the entity receiving the award for costs re-
23	lating to the issuance of the license described in
24	that subparagraph, including, as applicable,
25	easts relating to the issuance of an associated

1	construction permit described in section 50.23
2	of title 10, Code of Federal Regulations (or suc-
3	cessor regulations), or early site permit (as de-
4	fined in section 52.1 of that title (or successor
5	regulations)).
6	"(C) Award categories. An award
7	under subparagraph (A) may be made for—
8	"(i) the first advanced nuclear reactor
9	for which the Commission issues—
10	"(I) a license in accordance with
11	clause (i) of subparagraph (A); or
12	"(H) a finding in accordance
13	with clause (ii) of that subparagraph;
14	<del>"(ii)</del> an advanced nuclear reactor
15	<del>that</del> —
16	"(I) uses isotopes derived from
17	spent nuclear fuel (as defined in sec-
18	tion 2 of the Nuclear Waste Policy
19	Act of 1982 (42 U.S.C. 10101)) or
20	depleted uranium as fuel for the ad-
21	vanced nuclear reactor; and
22	"(H) is the first advanced nu-
23	elear reactor described in subclause
24	(I) for which the Commission issues—

1	<del>"(aa)</del> a license in accordance
2	with clause (i) of subparagraph
3	(A); or
4	"(bb) a finding in accord-
5	ance with clause (ii) of that sub-
6	<del>paragraph;</del> and
7	<del>"(iii)</del> an advanced nuclear reactor
8	<del>that</del>
9	"(I) operates flexibly to generate
10	electricity or high temperature process
11	heat for nonelectric applications; and
12	"(II) is the first advanced nu-
13	clear reactor described in subclause
14	(I) for which the Commission issues—
15	<del>"(aa)</del> a license in accordance
16	with clause (i) of subparagraph
17	$(\Lambda)$ ; or
18	<del>"(bb)</del> a finding in accord-
19	ance with clause (ii) of that sub-
20	<del>paragraph.</del>
21	"(2) Federal funding limitation.—An
22	award under this subsection shall not exceed the
23	total amount expended (excluding any expenditures
24	made with Federal funds received for the applicable
25	project and an amount equal to the minimum cost-

- 1 share required under section 988 of the Energy Pol-
- 2 iey Act of 2005 (42 U.S.C. 16352)) by the entity re-
- 3 <u>eeiving the award for licensing costs relating to the</u>
- 4 project for which the award is made.".

#### 5 SEC. 203. NEW NUCLEAR ENERGY PROJECT APPLICATION

- 6 REVIEWS.
- 7 (a) Production, Utilization, or Fuel Facility
- 8 Located at an Existing Site.—In reviewing an appli-
- 9 cation for an early site permit, construction permit, oper-
- 10 ating license, or combined construction permit and oper-
- 11 ating license for a production, utilization, or fuel facility
- 12 located at the site of a licensed production, utilization, or
- 13 fuel facility, the Commission, to the maximum extent prac-
- 14 ticable, shall use information that was part of the licensing
- 15 basis of the licensed production, utilization, or fuel facility.
- 16 (b) RELATIONSHIP TO OTHER LAW.—Nothing in this
- 17 section exempts the Commission from any requirement to
- 18 be fully compliant with section 102(2)(C) of the National
- 19 Environmental Policy Act of 1969 (42 U.S.C.
- $20 \ 4332(2)(C)$ .
- 21 (c) Use of New Information and Analyses.—
- 22 Nothing in this section precludes the Commission from
- 23 using new information or new scientific or technical anal-
- 24 yses that are applicable to the review of an application
- 25 described in subsection (a).

1	SEC. 204. REPORT ON UNIQUE LICENSING CONSIDER-
2	ATIONS RELATING TO THE USE OF NUCLEAR
3	ENERGY FOR NONELECTRIC APPLICATIONS.
4	(a) In General.—Not later than 1 year after the
5	date of enactment of this Act, the Commission shall sub-
6	mit to the appropriate committees of Congress a report
7	(referred to in this section as the "report") addressing any
8	unique licensing issues or requirements relating to—
9	(1) the flexible operation of nuclear reactors,
10	such as ramping power output and switching be-
11	tween electricity generation and nonelectric applica-
12	<del>tions;</del>
13	(2) the use of advanced nuclear reactors exclu-
14	sively for nonelectric applications; and
15	(3) the colocation of nuclear reactors with in-
16	dustrial plants or other facilities.
17	(b) STAKEHOLDER INPUT.—In developing the report,
18	the Commission shall seek input from—
19	(1) the Secretary;
20	(2) the nuclear energy industry;
21	(3) technology developers;
22	(4) the industrial, ehemical, and medical sec-
23	<del>tors;</del>
24	(5) nongovernmental organizations; and
25	(6) other public stakeholders.
26	(c) Contents.—

1	(1) IN GENERAL.—The report shall describe—
2	(A) any unique licensing issues or require-
3	ments relating to the matters described in para-
4	graphs (1) through (3) of subsection (a), in-
5	eluding, with respect to the nonelectric applica-
6	tions referred to in paragraphs (1) and (2) of
7	that subsection, any licensing issues or require-
8	ments relating to the use of nuclear energy in-
9	(i) hydrogen or other liquid and gas-
10	eous fuel or chemical production;
11	(ii) water desalination and wastewater
12	treatment;
13	(iii) heat for industrial processes;
14	(iv) district heating;
15	(v) energy storage;
16	(vi) industrial or medical isotope pro-
17	duction; and
18	(vii) other applications, as identified
19	by the Commission;
20	(B) options for addressing those issues or
21	requirements—
22	(i) within the existing regulatory
23	framework;
24	(ii) as part of the technology-inclusive
25	regulatory framework required under sub-

1	section (a)(4) of section 103 of the Nuclear
2	Energy Innovation and Modernization Act
3	(42 U.S.C. 2133 note; Public Law 115-
4	439) or described in the report required
5	under subsection (e) of that section (Public
6	Law 115-439; 132 Stat. 5575); or
7	(iii) through a new rulemaking; and
8	(C) the extent to which Commission action
9	is needed to implement any matter described in
10	the report.
11	(2) Cost estimates, budgets, and time-
12	FRAMES.—The report shall include cost estimates,
13	proposed budgets, and proposed timeframes for im-
14	plementing risk-informed and performance-based
15	regulatory guidance in the licensing of nuclear reac-
16	tors for nonelectric applications.
17	SEC. 205. ENABLING PREPARATIONS FOR THE DEMONSTRA-
18	TION OF ADVANCED NUCLEAR REACTORS ON
19	DEPARTMENT SITES.
20	(a) In General.—Section 102(b)(1)(B) of the Nu-
21	clear Energy Innovation and Modernization Act (42
22	U.S.C. 2215(b)(1)(B)) (as amended by section 101(c)) is
23	amended by adding at the end the following:
24	"(v) Costs for—

1	"(I) activities to review and ap-
2	prove or disapprove an application for
3	an early site permit (as defined in sec-
4	tion 52.1 of title 10, Code of Federal
5	Regulations (or a successor regula-
6	tion)) to demonstrate an advanced nu-
7	clear reactor on a Department of En-
8	ergy site; and
9	"(II) pre-application activities re-
10	lating to an early site permit (as se
11	defined) to demonstrate an advanced
12	nuclear reactor on a Department of
13	Energy site.".
14	(b) Effective Date.—The amendment made by
15	subsection (a) shall take effect on October 1, 2021.
16	SEC. 206. REGULATORY REQUIREMENTS FOR MICRO-REAC
17	TORS.
18	(a) In General.—The Commission shall develop
19	risk-informed and performance-based strategies and guid-
20	ance to support a timely and efficient licensing and regu-
21	latory process for micro-reactors that takes into consider-
22	ation—
23	(1) the unique characteristics of micro-reactors;
24	and

1	(2) the development timeframes of micro-reac-
2	tors.
3	(b) IMPLEMENTATION.—The Commission shall im-
4	plement the strategies and guidance developed under sub-
5	section (a)—
6	(1) not later than the date on which the tech-
7	nology-inclusive regulatory framework required
8	under section 103(a)(4) of the Nuclear Energy Inno-
9	vation and Modernization Act (42 U.S.C. 2133 note;
10	Public Law 115-439) is established; and
11	(2) in a manner that is consistent with that
12	technology-inclusive regulatory framework.
13	TITLE III—PRESERVING EXIST-
13 14	TITLE HI—PRESERVING EXIST- ING NUCLEAR ENERGY GEN-
14	ING NUCLEAR ENERGY GEN-
14 15	ING NUCLEAR ENERGY GENERATION
14 15 16	ING NUCLEAR ENERGY GENERATION SEC. 301. NUCLEAR REACTOR INCENTIVES.
14 15 16 17	ING NUCLEAR ENERGY GENERATION  SEC. 301. NUCLEAR REACTOR INCENTIVES.  (a) FINDINGS.—Congress finds that—
14 15 16 17 18	ING NUCLEAR ENERGY GENERATION  SEC. 301. NUCLEAR REACTOR INCENTIVES.  (a) FINDINGS.—Congress finds that—  (1) as of December 31, 2019, 96 nuclear reac-
14 15 16 17 18	ING NUCLEAR ENERGY GENERATION  SEC. 301. NUCLEAR REACTOR INCENTIVES.  (a) FINDINGS.—Congress finds that—  (1) as of December 31, 2019, 96 nuclear reactors provided approximately 20 percent of the elec-
14 15 16 17 18 19 20	ING NUCLEAR ENERGY GENERATION  SEC. 301. NUCLEAR REACTOR INCENTIVES.  (a) FINDINGS.—Congress finds that—  (1) as of December 31, 2019, 96 nuclear reactors provided approximately 20 percent of the electricity used in the United States and more than 55
14 15 16 17 18 19 20 21	ING NUCLEAR ENERGY GENERATION  SEC. 301. NUCLEAR REACTOR INCENTIVES.  (a) FINDINGS.—Congress finds that—  (1) as of December 31, 2019, 96 nuclear reactors provided approximately 20 percent of the electricity used in the United States and more than 55 percent of the earbon-free, clean energy used in the
14 15 16 17 18 19 20 21	ING NUCLEAR ENERGY GENERATION  SEC. 301. NUCLEAR REACTOR INCENTIVES.  (a) FINDINGS.—Congress finds that—  (1) as of December 31, 2019, 96 nuclear reactors provided approximately 20 percent of the electricity used in the United States and more than 55 percent of the earbon-free, clean energy used in the United States;

1	(3) as of September 2020, an additional 8 nu-
2	clear reactors are scheduled to cease operations by
3	2025;
4	(4) 25 percent, or more, of the nuclear reactors
5	in the current nuclear fleet, primarily in the com-
6	petitive electricity market, are projected to cease op-
7	erations prior to the end of the operating licenses of
8	those reactors;
9	(5) emissions of earbon dioxide, nitrogen oxides
10	sulfur oxides, particulate matter, and hazardous air
11	pollutants typically increase when a nuclear reactor
12	ceases operations; and
13	(6) a program to incentivize nuclear energy
14	generation to avoid emissions of carbon dioxide, ni-
15	trogen oxides, sulfur oxides, particulate matter, and
16	hazardous air pollutants offers substantial environ-
17	mental benefits to the United States.
18	(b) DEFINITIONS.—In this section:
19	(1) CERTIFIED NUCLEAR REACTOR.—The term
20	"certified nuclear reactor" means a nuclear reactor
21	<del>that</del>
22	(A) operates in a competitive electricity
23	market: and

1	(B) is certified under subsection
2	(d)(2)(A)(i) to submit a sealed bid in accord-
3	ance with subsection (e).
4	(2) Credit.—The term "credit" means a credit
5	allocated to a certified nuclear reactor under sub-
6	section $(f)(2)$ .
7	(e) Establishment of Program.—The Adminis-
8	trator, in consultation with the Secretary, shall establish
9	an emissions avoidance program—
10	(1) to evaluate nuclear reactors that are pro-
11	jected to cease operations due to economic factors;
12	and
13	(2) to allocate credits to certified nuclear reac-
14	tors that are selected under paragraph (1)(B) of
15	subsection (f) to receive eredits under paragraph (2)
16	of that subsection.
17	(d) CERTIFICATION.—
18	(1) APPLICATION.
19	(A) In General.—In order to be certified
20	under paragraph $(2)(A)(i)$ , the owner or oper-
21	ator of a nuclear reactor that is projected to
22	cease operations due to economic factors shall
23	submit to the Administrator an application at
24	such time, in such manner, and containing such

1	information as the Administrator determines to
2	be appropriate, including—
3	(i) information on the operating costs
4	necessary to make the examination de-
5	scribed in paragraph (2)(A)(ii)(H), includ-
6	ing—
7	(I) the average annual operating
8	loss per megawatt-hour expected to be
9	incurred by the nuclear reactor over
10	the 2-year period for which credits
11	would be allocated;
12	(II) any private or publicly avail-
13	able data with respect to current or
14	projected bulk power market prices;
15	(III) out-of-market revenue
16	streams;
17	(IV) operations and maintenance
18	<del>costs;</del>
19	(V) capital costs, including fuel;
20	and
21	(VI) operational and market
22	<del>risks;</del>
23	(ii) an estimate of the potential incre-
24	mental emissions of carbon dioxide, nitro-
25	gen oxides, sulfur oxides, particulate mat-

1	ter, and hazardous air pollutants that
2	would result if the nuclear reactor were to
3	cease operations;
4	(iii) information on the source of re-
5	covered uranium and the location where
6	the uranium is converted, enriched, and
7	fabricated into fuel assemblies for the nu-
8	elear reactor for the 2-year period for
9	which eredits would be allocated; and
10	(iv) a detailed plan to sustain oper-
11	ations at the conclusion of the applicable
12	2-year period for which credits would be
13	allocated—
14	(I) without receiving additional
15	eredits; or
16	(H) with the receipt of additional
17	eredits of a lower amount than the
18	eredits allocated during that 2-year
19	eredit period.
20	(B) Timeline.—The Administrator shall
21	accept applications described in subparagraph
22	$(\Lambda)$ —
23	(i) until the date that is 120 days
24	after the date of enactment of this Act;
25	<del>and</del>

1	(ii) not less frequently than every 2
2	years thereafter.
3	(2) DETERMINATION TO CERTIFY.—
4	(A) DETERMINATION.—
5	(i) In General.—Not later than 60
6	days after the applicable date under sub-
7	paragraph (B) of paragraph (1), the Ad-
8	ministrator, in consultation with the Sec-
9	retary, shall determine whether to certify,
10	in accordance with clauses (ii) and (iii),
11	each nuclear reactor for which an applica-
12	tion is submitted under subparagraph (A)
13	of that paragraph.
14	(ii) Minimum requirements.—To
15	the maximum extent practicable, the Ad-
16	ministrator, in consultation with the Sec-
17	retary, shall only certify a nuclear reactor
18	<del>under elause (i) if—</del>
19	(I) the nuclear reactor has a
20	good safety record, as determined by
21	the Action Matrix of the Commission
22	or the Performance Indicators of the
23	Reactor Oversight Process, such that
24	the nuclear reactor falls under the "li-

1	censee response" column indicating no
2	current significant safety issues;
3	(II) after considering the infor-
4	mation submitted under paragraph
5	(1)(A)(i), the Administrator deter-
6	mines that the nuclear reactor is pro-
7	jected to cease operations due to eco-
8	nomic factors; and
9	(III) after considering the esti-
10	mate submitted under paragraph
11	(1)(A)(ii), the Administrator deter-
12	mines that emissions of earbon diox-
13	ide, nitrogen oxides, sulfur oxides,
14	particulate matter, and hazardous air
15	pollutants would increase if the nu-
16	clear reactor were to cease operations
17	and be replaced with other types of
18	power generation.
19	(iii) Priority.—In determining
20	whether to certify a nuclear reactor under
21	elause (i), the Administrator, in consulta-
22	tion with the Secretary, shall give priority
23	to a nuclear reactor that uses uranium
24	that is recovered, converted, enriched, and

1	fabricated into fuel assemblies in the
2	United States.
3	(B) Notice.—For each application re-
4	ceived under paragraph (1)(A), the Adminis-
5	trator, in consultation with the Secretary, shall
6	provide to the applicable owner or operator, as
7	applicable—
8	(i) a notice of the certification of the
9	applicable nuclear reactor; or
10	(ii) a notice that describes the reasons
11	why the certification of the applicable nu-
12	elear reactor was denied.
13	(e) Bidding Process.—
14	(1) In General.—Subject to paragraph (2),
15	the Administrator shall establish a deadline by which
16	each certified nuclear reactor shall submit to the Ad-
17	ministrator a sealed bid that—
18	(A) describes the price per megawatt-hour
19	required to maintain operations of the certified
20	nuclear reactor during the 2-year period for
21	which the certified nuclear reactor would receive
22	eredits; and
23	(B) includes a commitment, subject to the
24	receipt of credits, to provide a specific number

1	of megawatt-hours of generation during the 2-
2	year period for which credits would be allocated.
3	(2) Requirement.—The deadline established
4	under paragraph (1) shall be not later than 30 days
5	after the first date on which the Administrator has
6	made the determination described in paragraph
7	(2)(A)(i) of subsection (d) with respect to each ap-
8	plication submitted under paragraph $(1)(A)$ of that
9	subsection.
10	(f) Allocation.—
11	(1) Auction.—The Administrator, in consulta-
12	tion with the Secretary, shall—
13	(A) in consultation with the heads of appli-
14	cable Federal agencies, establish a process for
15	evaluating bids submitted under subsection
16	(e)(1) through an auction process; and
17	(B) select certified nuclear reactors to be
18	allocated eredits.
19	(2) CREDITS.—Subject to subsection (g)(2), on
20	selection under paragraph (1), a certified nuclear re-
21	actor shall be allocated credits for a 2-year period
22	beginning on the date of the selection.
23	(3) Requirement.—To the maximum extent
24	practicable, the Administrator shall use the amounts
25	made available for credits under this section to allo-

1	cate credits to as many certified nuclear reactors as
2	<del>possible.</del>
3	(g) Renewal.—
4	(1) In General.—The owner or operator of a
5	certified nuclear reactor may seek to recertify the
6	nuclear reactor in accordance with this section.
7	(2) Limitation.—Notwithstanding any other
8	provision of this section, the Administrator may not
9	allocate any credits after September 30, 2030.
10	(h) Additional Requirements.—
11	(1) Audit.—During the 2-year period begin-
12	ning on the date on which a certified nuclear reactor
13	first receives a credit, the Administrator, in con-
14	sultation with the Secretary, shall periodically audit
15	the certified nuclear reactor.
16	(2) RECAPTURE.—The Administrator shall, by
17	regulation, provide for the recapture of the alloca-
18	tion of any credit to a certified nuclear reactor that,
19	during the period described in paragraph (1)—
20	(A) terminates operations; or
21	(B) does not operate at an annual loss in
22	the absence of an allocation of credits to the
23	certified nuclear reactor.
24	(3) Confidentiality.—The Administrator, in
25	consultation with the Secretary, shall establish pro-

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1	cedures to ensure that any confidential, private, pro-
2	prietary, or privileged information that is included in
3	a sealed bid submitted under this section is not pub-
4	liely disclosed or otherwise improperly used.
5	(i) REPORT.—Not later than January 1, 2024, the
6	Comptroller General of the United States shall submit to
7	Congress a report with respect to the credits allocated to
8	certified nuclear reactors, which shall include—
9	(1) an evaluation of the effectiveness of the
10	credits in avoiding emissions of carbon dioxide, ni-
11	trogen oxides, sulfur oxides, particulate matter, and
12	hazardous air pollutants while ensuring grid reli-
13	ability;
14	(2) a quantification of the ratemayor sayings

- 14 (2) a quantification of the ratepayer savings 15 achieved under this section; and
- 16 (3) any recommendations to renew or expand
  17 the credits.
- 18 (j) Authorization of Appropriations.—There
- 19 are authorized to be appropriated such sums as are nec-
- 20 essary to earry out this section for each of fiscal years
- 21 2021 through 2030.
- 22 SEC. 302. REPORT ON LESSONS LEARNED DURING THE
- 23 COVID-19 PUBLIC HEALTH EMERGENCY.
- 24 (a) In General.—Not later than 180 days after the
- 25 date of enactment of this Act, the Commission shall sub-

- mit to the appropriate committees of Congress and make publicly available a report on actions taken by the Commission during the public health emergency declared by the Secretary of Health and Human Services under section 319 of the Public Health Service Act (42 U.S.C. 247d) on January 31, 2020, with respect to COVID-19. 6 7 (b) Contents.—The report under subsection (a) 8 shall include— 9 (1) an identification of the processes, proce-10 dures, and other regulatory policies that were re-11 vised or temporarily suspended during the public 12 health emergency described in subsection (a); 13 (2) a review of actions, if any, taken by the 14 Commission that examines how any revision or tem-15 porary suspension of a process, procedure, or other 16 regulatory policy identified under paragraph (1) may 17 or may not have compromised the ability of the 18 Commission to license and regulate the civilian use 19 of radioactive materials in the United States to pro-20 teet public health and safety, promote the common
  - (3) a description of any process efficiencies or challenges that resulted from the matters identified under paragraph (1);

defense and security, and protect the environment;

21

22

23

24

1	(4) a discussion of lessons learned from the
2	matters described in paragraphs (1), (2), and (3);
3	(5) a list of actions that the Commission may
4	take to incorporate into the licensing activities and
5	regulations of the Commission—
6	(A) the lessons described in paragraph (4);
7	and
8	(B) the information provided under para-
9	$\frac{\text{graphs }(2)}{\text{and }(3)}$ ; and
10	(6) a description of when the actions described
11	in paragraph (5) may be implemented.
12	SEC. 303. INVESTMENT BY ALLIES.
13	(a) In General.—The prohibitions against issuing
14	certain licenses for utilization facilities to certain corpora-
15	tions and other entities described in the second sentence
16	of section 103 d. of the Atomic Energy Act of 1954 (42
17	U.S.C. 2133(d)) and the second sentence of section 104
18	d. of that Act (42 U.S.C. 2134(d)) shall not apply to an
19	entity described in subsection (b) if the Commission deter-
20	mines that issuance of the applicable license to that entity
21	is not inimical to—
22	(1) the common defense and security; or
23	(2) the health and safety of the public.

1	(b) Entities Described.—An entity referred to in
2	subsection (a) is a corporation or other entity that is
3	owned, controlled, or dominated by—
4	(1) the government of—
5	(A) a country that is a member of the
6	North Atlantic Treaty Organization;
7	(B) Japan; or
8	(C) the Republic of Korea;
9	(2) a corporation that is incorporated in a
10	country described in any of subparagraphs (A)
11	through (C) of paragraph (1); or
12	(3) an alien who is a national of a country de-
13	scribed in any of subparagraphs (A) through (C) of
14	<del>paragraph (1).</del>
15	(e) TECHNICAL AMENDMENT.—Section 103 d. of the
16	Atomic Energy Act of 1954 (42 U.S.C. 2133(d)) is
17	amended, in the second sentence, by striking "any any"
18	and inserting "any".
19	TITLE IV—REVITALIZING AMER-
20	ICA'S NUCLEAR SUPPLY
21	CHAIN INFRASTRUCTURE
22	SEC. 401. ADVANCED NUCLEAR FUEL APPROVAL.
23	(a) AGENCY COORDINATION.—
24	(1) In GENERAL.—Not later than 1 year after
25	the date of enactment of this Act, the Chairman and

1	the Secretary shall enter into a memorandum of un-
2	derstanding relating to advanced nuclear fuels.
3	(2) Memorandum of understanding con-
4	TENTS.—The memorandum of understanding en-
5	tered into under paragraph (1) shall require the De-
6	partment and the Commission to coordinate, as ap-
7	<del>propriate</del>
8	(A) to ensure that the Department has
9	sufficient technical expertise to support the
10	timely research, development, demonstration
11	and commercial application by the civilian nu-
12	elear industry of innovative advanced nuclear
13	fuels, including by facilitating the development
14	and sharing of criticality benchmark data to
15	support—
16	(i) the licensing of fuel enrichment
17	deconversion, and fabrication facilities
18	<del>for</del> —
19	(I) advanced nuclear fuels con-
20	taining high-assay, low-enriched ura
21	nium with an assay greater than 5
22	weight percent, but less than 10
23	weight percent, of the uranium-235
24	isotope; and

1	(II) advanced nuclear fuels con-
2	taining high-assay, low-enriched ura-
3	nium with an assay greater than or
4	equal to 10 weight percent, but less
5	than 20 weight percent, of the ura-
6	nium-235 isotope; and
7	(ii) the certification of transportation
8	<del>packages</del> for—
9	(I) advanced nuclear fuels con-
10	taining high-assay, low-enriched ura-
11	nium with an assay greater than 5
12	weight percent, but less than 10
13	weight percent, of the uranium-235
14	isotope; and
15	(II) advanced nuclear fuels con-
16	taining high-assay, low-enriched ura-
17	nium with an assay greater than or
18	equal to 10 weight percent, but less
19	than 20 weight percent, of the ura-
20	nium-235 isotope;
21	(B) to ensure that the Commission has
22	sufficient technical expertise to support the
23	evaluation of advanced nuclear fuels;
24	(C) to identify methods to improve the use
25	of computers and software codes to calculate

1	the behavior and performance of advanced nu-
2	clear fuels based on mathematical models of the
3	physical behavior of advanced nuclear fuels;
4	(D) to ensure that the Department main-
5	tains and develops the facilities necessary to en-
6	able the timely research, development, dem-
7	onstration, and commercial application by the
8	civilian nuclear industry of innovative advanced
9	nuclear fuels; and
10	(E) to ensure that the Commission has ac-
11	cess to the facilities described in subparagraph
12	(D), as needed.
13	(b) REPORTING REQUIREMENTS.—Not later than
14	180 days after the date of enactment of this Act, the Com-
15	mission shall submit to the appropriate committees of
16	Congress a report that—
17	(1) identifies criticality benchmark data to as-
18	<del>sist -</del>
19	(A) the licensing of fuel enrichment,
20	deconversion, and fabrication facilities for—
21	(i) advanced nuclear fuels containing
22	high-assay, low-enriched uranium with an
23	assay greater than 5 weight percent, but
24	less than 10 weight percent, of the ura-
25	nium-235 isotope; and

1	(ii) advanced nuclear fuels containing
2	high-assay, low-enriched uranium with an
3	assay greater than or equal to 10 weight
4	percent, but less than 20 weight percent,
5	of the uranium-235 isotope; and
6	(B) the certification of transportation
7	<del>packages for—</del>
8	(i) advanced nuclear fuels containing
9	high-assay, low-enriched uranium with an
10	assay greater than 5 weight percent, but
11	less than 10 weight percent, of the ura-
12	nium-235 isotope; and
13	(ii) advanced nuclear fuels containing
14	high-assay, low-enriched uranium with an
15	assay greater than or equal to 10 weight
16	percent, but less than 20 weight percent,
17	of the uranium-235 isotope;
18	(2) identifies and describes any updates to reg-
19	ulations, certifications, and other regulatory policies
20	that the Commission determines are necessary for li-
21	censing and oversight relating to high-assay, low-en-
22	riched uranium, including—
23	(A) certifications relating to transportation
24	<del>packages</del> for—

1	(i) high-assay, low-enriched uranium
2	with an assay greater than 5 weight per-
3	eent, but less than 10 weight percent, of
4	the uranium-235 isotope; and
5	(ii) high-assay, low-enriched uranium
6	with an assay greater than or equal to 10
7	weight percent, but less than 20 weight
8	percent, of the uranium-235 isotope; and
9	(B) licensing of fuel enrichment,
10	deconversion, and fabrication facilities for high-
11	assay, low-enriched uranium, and associated
12	physical security plans for those facilities;
13	(3) identifies and describes any updates to reg-
14	ulations, certifications, and other regulatory policies
15	that the Commission determines are necessary to ad-
16	dress nuclear nonproliferation considerations that—
17	(A) are within the mission of the Commis-
18	sion; and
19	(B) are associated with—
20	(i) high-assay, low-enriched uranium
21	with an assay greater than 5 weight per-
22	cent, but less than 10 weight percent, of
23	the uranium-235 isotope; or
24	(ii) high-assay, low-enriched uranium
25	with an assay greater than or equal to 10

1	weight percent, but less than 20 weight
2	percent, of the uranium-235 isotope;
3	(4) identifies and describes—
4	(A) any data needs, regulatory require-
5	ments, or policies identified under paragraph
6	(1), $(2)$ , or $(3)$ that—
7	(i) differ based on whether they are
8	related to—
9	(I) high-assay, low-enriched ura-
10	nium with an assay greater than 5
11	weight percent, but less than 10
12	weight percent, of the uranium-235
13	isotope; or
14	(H) high-assay, low-enriched ura-
15	nium with an assay greater than or
16	equal to 10 weight percent, but less
17	than 20 weight percent, of the ura-
18	nium-235 isotope; or
19	(ii) are unique to—
20	(I) high-assay, low-enriched ura-
21	nium with an assay greater than 5
22	weight percent, but less than 10
23	weight percent, of the uranium-235
24	isotope; or

1	(H) high-assay, low-enriched ura-
2	nium with an assay greater than or
3	equal to 10 weight percent, but less
4	than 20 weight percent, of the ura-
5	nium-235 isotope;
6	(B) the manner in which the data needs
7	regulatory requirements, or policies identified
8	under subparagraph (A)(i) differ as described
9	in that subparagraph; and
10	(C) the extent to which the data needs
11	regulatory requirements, or policies identified
12	under subparagraph (A)(ii) are unique to ei-
13	ther—
14	(i) high-assay, low-enriched uranium
15	with an assay greater than 5 weight per-
16	cent, but less than 10 weight percent, of
17	the uranium-235 isotope; or
18	(ii) high-assay, low-enriched uranium
19	with an assay greater than or equal to 10
20	weight percent, but less than 20 weight
21	percent, of the uranium-235 isotope; and
22	(5) includes a timeline for completing the up-
23	dates described in paragraphs (2) and (3) within the
24	existing regulatory framework.

# 1 SEC. 402. NATIONAL STRATEGIC URANIUM RESERVE.

2	(a) Definitions.—In this section:
3	(1) Program.—The term "program" means
4	the program established under subsection (b)(1).
5	(2) Uranium reserve.—The term "Uranium
6	Reserve" means the uranium reserve operated pur-
7	suant to the program.
8	(b) Establishment.—
9	(1) In General.—Not later than 60 days after
10	the date of enactment of this Act, the Secretary,
11	subject to the availability of appropriations, shall es-
12	tablish a program to operate a uranium reserve in
13	accordance with this section.
14	(2) AUTHORITY.—In establishing the program
15	and operating the Uranium Reserve, the Secretary
16	shall use the authority granted to the Secretary by
17	sections 53, 63, and 161 g. of the Atomic Energy
18	Act of 1954 (42 U.S.C. 2073, 2093, 2201(g)).
19	(e) Purposes.—The purposes of the Uranium Re-
20	serve are—
21	(1) to provide assurance of the availability of
22	uranium recovered in the United States in the event
23	of a market disruption; and
24	(2) to support strategic fuel cycle capabilities in
25	the United States.

1	(d) Exclusion.—The Secretary shall exclude from
2	the Uranium Reserve uranium that is recovered in the
3	United States by an entity that—
4	(1) is owned or controlled by the Government of
5	the Russian Federation or the Government of the
6	People's Republic of China; or
7	(2) is organized under the laws of, or otherwise
8	subject to the jurisdiction of, the Russian Federation
9	or the People's Republic of China.
10	(e) Acquisition.—
11	(1) In General.—The Secretary may acquire
12	for the Uranium Reserve only uranium recovered
13	from a facility described in paragraph (2), including,
14	subject to paragraph (3), uranium ore that has been
15	mined.
16	(2) Facilities described.—A facility referred
17	to in paragraph (1) is a facility that—
18	(A)(i) is licensed by the Commission as of
19	the date of enactment of this Act;
20	(ii) is not located on Tribal land; and
21	(iii) is not the subject of an enforcement
22	action that—
23	(I) was taken—
24	(aa) in response to a violation of
25	a regulation in part 40 of title 10.

1	Code of Federal Regulations (or suc-
2	eessor regulations); and
3	(bb) during the 1-year period
4	ending on the date on which the ura-
5	nium is acquired for the Uranium Re-
6	serve; and
7	(II) was characterized as "escalated
8	enforcement"; or
9	(B)(i) as of the date of enactment of this
10	Act, is licensed by a State that has entered into
11	an agreement with the Commission under sec-
12	tion 274 b. of the Atomic Energy Act of 1954
13	(42 U.S.C. 2021(b));
14	(ii) is not located on Tribal land; and
15	(iii) is not the subject of an enforcement
16	action that—
17	(I) was taken—
18	(aa) in response to a violation of
19	an applicable State requirement that
20	is compatible with the regulations of
21	the Commission in part 40 of title 10,
22	Code of Federal Regulations (or suc-
23	cessor regulations); and
24	(bb) during the 1-year period
25	ending on the date on which the ura-

1	nium is acquired for the Uranium Re-
2	serve; and
3	(II) was subject to further administra-
4	tive actions, further orders, or the equiva-
5	lent of further administrative actions or or-
6	<del>ders.</del>
7	(3) REQUIREMENT.—
8	(A) In General.—Except as provided in
9	subparagraph (B), with respect to any uranium
10	ore acquired by a facility described in para-
11	graph (2) that has been mined, the Secretary
12	may acquire for the Uranium Reserve only ura-
13	nium extracted from a conventional mine that
14	is not located on—
15	(i) Tribal land;
16	(ii) Federal land temporarily with-
17	drawn from location and entry pursuant to
18	the record of decision described in the no-
19	tice of availability entitled "Notice of
20	Availability of Record of Decision for the
21	Northern Arizona Proposed Withdrawal'
22	(77 Fed. Reg. 2317 (January 17, 2012));
23	<del>Ol'</del>
24	(iii) Federal land that, as of October
25	1, 2020, is permanently withdrawn from

1	location and entry under sections 2319
2	through 2344 of the Revised Statutes
3	(commonly known as the "Mining Law of
4	1872") (30 U.S.C. 22 et seq.).
5	(B) Removal and remedial actions.—
6	The Secretary may acquire for the Uranium
7	Reserve uranium recovered from material ob-
8	tained as a result of removal or remedial ac-
9	tions carried out on abandoned mine land lo-
10	cated on Tribal land.
11	(f) Request for Information.—Not later than 90
12	days after the date of enactment of this Act, the Secretary
13	shall publish a request for information to help the Sec-
14	retary evaluate—
15	(1) options for the operation and management
16	of the Uranium Reserve;
17	(2) contractual mechanisms pursuant to which
18	the Secretary could acquire uranium; and
19	(3) the quantities, form, transportation, and
20	storage of uranium in the Uranium Reserve.
21	(g) BUDGET REQUEST.—For each fiscal year begin-
22	ning after the date of enactment of this Act, the Secretary
23	shall include in the budget justification submitted to Con-
24	gress pursuant to section 1105 of title 31, United States
25	Code—

1	(1) a request for amounts for the acquisition,
2	transportation, and storage of uranium in the Ura-
3	nium Reserve; or
4	(2) an explanation of why amounts are not re-
5	quested for the acquisition, transportation, or stor-
6	age of uranium in the Uranium Reserve.
7	SEC. 403. REPORT ON ADVANCED METHODS OF MANUFAC-
8	TURING AND CONSTRUCTION FOR NUCLEAR
9	ENERGY APPLICATIONS.
10	(a) In General.—Not later than 180 days after the
11	date of enactment of this Act, the Commission shall sub-
12	mit to the appropriate committees of Congress a report
13	(referred to in this subsection as the "report") on manu-
14	facturing and construction for nuclear energy applications.
15	(b) STAKEHOLDER INPUT.—In developing the report,
16	the Commission shall seek input from—
17	(1) the Secretary;
18	(2) the nuclear energy industry;
19	(3) National Laboratories;
20	(4) institutions of higher education;
21	(5) nuclear and manufacturing technology de-
22	velopers;
23	(6) the manufacturing and construction indus-
24	<del>tries;</del>
25	(7) standards development organizations;

1	(8) labor unions;
2	(9) nongovernmental organizations; and
3	(10) other public stakeholders.
4	(e) Contents.—
5	(1) In General.—The report shall—
6	(A) examine any unique licensing issues or
7	requirements relating to the use of innovative—
8	(i) advanced manufacturing processes;
9	and
10	(ii) advanced construction techniques;
11	(B) examine—
12	(i) the requirements for nuclear-grade
13	components in manufacturing and con-
14	struction for nuclear energy applications;
15	(ii) opportunities to use standard ma-
16	terials, parts, or components in manufac-
17	turing and construction for nuclear energy
18	applications; and
19	(iii) opportunities to use standard ma-
20	terials that are in compliance with existing
21	codes to provide acceptable approaches to
22	support or encapsulate new materials that
23	do not yet have applicable codes;
24	(C) identify any safety aspects of innova-
25	tive advanced manufacturing processes and ad-

1	vanced construction techniques that are not ad-
2	dressed by existing codes and standards, so that
3	generic guidance may be updated or created, as
4	necessary;
5	(D) identify options for addressing the
6	issues, requirements, and opportunities exam-
7	ined under subparagraphs (A) and (B)—
8	(i) within the existing regulatory
9	framework; or
10	(ii) through a new rulemaking; and
11	(E) describe the extent to which Commis-
12	sion action is needed to implement any matter
13	described in the report.
14	(2) Cost estimates, budgets, and time-
15	FRAMES.—The report shall include cost estimates,
16	proposed budgets, and proposed timeframes for im-
17	plementing risk-informed and performance-based
18	regulatory guidance for manufacturing and construc-
19	tion for nuclear energy applications.
20	TITLE V—MISCELLANEOUS
21	SEC. 501. NUCLEAR ENERGY WORKFORCE DEVELOPMENT.
22	Section 313 of division C of the Omnibus Appropria-
23	tions Act, 2009 (42 U.S.C. 16274a) is amended—
24	(1) in subsection (b), in the matter preceding
25	paragraph (1), by striking "in each of fiscal years

1	2009 to 2019" and inserting "for each of fiscal
2	years 2021 through 2030,"; and
3	(2) by adding at the end the following:
4	"(d) Nuclear Energy Traineeship Subpro-
5	GRAM.—
6	"(1) Definitions.—In this subsection:
7	"(A) COMMISSION.—The term 'Commis-
8	sion' means the Nuclear Regulatory Commis-
9	sion.
10	"(B) Institution of Higher Edu-
11	CATION.—The term 'institution of higher edu-
12	cation' has the meaning given the term in sec-
13	tion 101(a) of the Higher Education Act of
14	1965 (20 U.S.C. 1001(a)).
15	"(C) NATIONAL LABORATORY.—The term
16	'National Laboratory' has the meaning given
17	the term in section 2 of the Energy Policy Act
18	of 2005 (42 U.S.C. 15801).
19	"(2) Establishment.—The Commission shall
20	establish, as a subprogram of the Integrated Univer-
21	sity Program established under this section, a work-
22	force development subprogram under which the
23	Commission, in coordination with institutions of
24	higher education and trade schools, shall competi-
25	tively award trainceships that provide focused train-

1	ing to meet critical mission needs of the Commission
2	and nuclear workforce needs, including needs relat-
3	ing to—
4	"(A) nuclear criticality safety; and
5	"(B) the nuclear tradecraft workforce.
6	"(3) REQUIREMENTS.—In carrying out the
7	workforce development program described in para-
8	graph (2), the Commission shall—
9	"(A) coordinate with the Secretary to
10	prioritize the funding of traineeships that focus
11	<del>on</del>
12	"(i) nuclear workforce needs; and
13	"(ii) critical mission needs of the
14	Commission;
15	"(B) encourage appropriate partnerships
16	<del>among</del>
17	"(i) National Laboratories;
18	"(ii) institutions of higher education;
19	"(iii) trade schools; and
20	"(iv) the nuclear energy industry; and
21	"(C) on an annual basis, evaluate nuclear
22	workforce needs for the purpose of imple-
23	menting trainceships in focused topical areas
24	<del>that—</del>

1	"(i) address the workforce needs of
2	that community; and
3	"(ii) support critical mission needs of
4	the Commission.".
5	SEC. 502. ANNUAL REPORT ON THE SPENT NUCLEAR FUEL
6	AND HIGH-LEVEL RADIOACTIVE WASTE IN-
7	VENTORY IN THE UNITED STATES.
8	(a) Definitions.—In this section:
9	(1) High-level radioactive waste.—The
10	term "high-level radioactive waste" has the meaning
11	given the term in section 2 of the Nuclear Waste
12	Policy Act of 1982 (42 U.S.C. 10101).
13	(2) SPENT NUCLEAR FUEL.—The term "spent
14	nuclear fuel" has the meaning given the term in sec-
15	tion 2 of the Nuclear Waste Policy Act of 1982 (42
16	<del>U.S.C.</del> 10101).
17	(3) STANDARD CONTRACT.—The term "stand-
18	ard contract" has the meaning given the term "con-
19	tract" in section 961.3 of title 10, Code of Federal
20	Regulations (or a successor regulation).
21	(b) REPORT.—Not later than January 1, 2022, and
22	annually thereafter, the Secretary shall submit to Con-
23	gress a report that describes—
24	(1) the annual and cumulative amount of pay-
25	ments made by the United States to the holder of

- a standard contract due to a partial breach of contract under the Nuclear Waste Policy Act of 1982

  (42 U.S.C. 10101 et seq.) resulting in financial damages to the holder;
  - (2) the amount spent by the Department to reduce future payments projected to be made by the United States to any holder of a standard contract due to a partial breach of contract under the Nuclear Waste Policy Act of 1982 (42 U.S.C. 10101 et seq.);
  - (3) the cumulative amount spent by the Department to store, manage, and dispose of spent nuclear fuel and high-level radioactive waste in the United States as of the date of the report;
  - (4) the projected lifecycle costs to store, manage, transport, and dispose of the projected inventory of spent nuclear fuel and high-level radioactive waste in the United States, including spent nuclear fuel and high-level radioactive waste expected to be generated from existing reactors through 2050;
  - (5) any mechanisms for better accounting of liabilities for the lifecycle costs of the spent nuclear fuel and high-level radioactive waste inventory in the United States; and

1	(6) any recommendations for improving the
2	methods used by the Department for the accounting
3	of spent nuclear fuel and high-level radioactive waste
4	costs and liabilities.
5	SEC. 503. AUTHORIZATION OF APPROPRIATIONS FOR
6	SUPERFUND ACTIONS AT ABANDONED MIN-
7	ING SITES ON TRIBAL LAND.
8	(a) Definitions.—In this section:
9	(1) ELIGIBLE NON-NPL SITE.—The term "eligi-
10	ble non-NPL site" means a site that—
11	(A) is not on the National Priorities List;
12	<del>but</del>
13	(B) the Administrator determines would be
14	eligible for listing on the National Priorities
15	List based on the presence of hazards from con-
16	tamination at the site, applying the hazard
17	ranking system described in section 105(e) of
18	the Comprehensive Environmental Response,
19	Compensation, and Liability Act of 1980 (42)
20	U.S.C. 9605(e)).
21	(2) Indian Tribe.—The term "Indian Tribe"
22	has the meaning given the term "Indian tribe" in
23	section 101 of the Comprehensive Environmental
24	Response, Compensation, and Liability Act of 1980
25	(42 U.S.C. 9601).

1	(3) NATIONAL PRIORITIES LIST.—The term
2	"National Priorities List" means the National Prior-
3	ities List developed by the President in accordance
4	with section 105(a)(8)(B) of the Comprehensive En-
5	vironmental Response, Compensation, and Liability
6	Act of 1980 (42 U.S.C. 9605(a)(8)(B)).
7	(b) AUTHORIZATION OF APPROPRIATIONS.—There is
8	authorized to be appropriated to the Administrator to
9	earry out this section \$100,000,000 for each of fiscal
10	years 2021 through 2030, to remain available until ex-
11	<del>pended.</del>
12	(c) USES OF AMOUNTS.—Amounts appropriated
13	under subsection (b) shall be used by the Administrator—
14	(1) to carry out removal actions on abandoned
15	mine land located on Tribal land;
16	(2) to carry out remedial actions on abandoned
17	mine land located on Tribal land at—
18	(A) eligible non-NPL sites; and
19	(B) sites listed on the National Priorities
20	List; and
21	(3) to make grants under subsection (e).
22	(d) Health Assessments.—Subject to the avail-
23	ability of appropriations, the Agency for Toxic Substances
24	and Disease Registry, in coordination with Tribal health
2.5	authorities, shall perform 1 or more health assessments

1	at each eligible non-NPL site that is located on Tribal
2	<del>land.</del>
3	(e) Grants for Technical Assistance.—
4	(1) In General.—The Administrator may use
5	amounts appropriated under subsection (b) to make
6	grants to Indian Tribes on whose land is located an
7	eligible non-NPL site.
8	(2) USE OF GRANT FUNDS.—A grant under
9	paragraph (1) shall be used in accordance with the
10	second sentence of section 117(e)(1) of the Com-
11	prehensive Environmental Response, Compensation,
12	and Liability Act of 1980 (42 U.S.C. 9617(e)(1)).
13	(3) Limitations.—A grant under paragraph
14	(1) shall be governed by the rules, procedures, and
15	limitations described in section 117(e)(2) of the
16	Comprehensive Environmental Response, Compensa-
17	tion, and Liability Act of 1980 (42 U.S.C.
18	9617(e)(2)), except that—
19	(A) "Administrator of the Environmental
20	Protection Agency" shall be substituted for
21	"President" each place it appears in that sec-
22	tion; and
23	(B) in the first sentence of that section,
24	"under section 503 of the American Nuclear In-

1	frastructure Act of 2020" shall be substituted
2	for "under this subsection".
3	(f) STATUTE OF LIMITATIONS.—If a remedial action
4	described in subsection (e)(2) is scheduled at an eligible
5	non-NPL site, no action may be commenced for damages
6	(as defined in section 101 of the Comprehensive Environ-
7	mental Response, Compensation, and Liability Act of
8	1980 (42 U.S.C. 9601)) with respect to that eligible non-
9	NPL site unless the action is commenced within the time-
10	frame provided for such actions with respect to facilities
11	on the National Priorities List in the first sentence of the
12	matter following subparagraph (B) of section 113(g)(1)
13	of that Act (42 U.S.C. 9613(g)(1)).
14	(g) Coordination.—The Administrator shall coordi-
15	nate with the Indian Tribe on whose land the applicable
16	site is located in—
17	(1) selecting and prioritizing sites for removal
18	actions and remedial actions under paragraphs (1)
19	and (2) of subsection (e); and
20	(2) earrying out those removal actions and re-
21	medial actions.
22	SEC. 504. TECHNICAL CORRECTION.
23	Section 104 e. of the Atomic Energy Act of 1954 (42
24	U.S.C. 2134(e)) is amended—

1	(1) by striking the third sentence and inserting
2	the following:
3	"(3) Limitation on utilization facili-
4	TIES.—The Commission may issue a license under
5	this section for a utilization facility useful in the
6	conduct of research and development activities of the
7	types specified in section 31 if—
8	"(A) not more than 75 percent of the an-
9	nual costs to the licensee of owning and oper-
10	ating the facility are devoted to the sale, other
11	than for research and development or education
12	and training, of—
13	"(i) nonenergy services;
14	<del>"(ii)</del> energy; or
15	"(iii) a combination of nonenergy
16	services and energy; and
17	"(B) not more than 50 percent of the an-
18	nual costs to the licensee of owning and oper-
19	ating the facility are devoted to the sale of en-
20	ergy.";
21	(2) in the second sentence, by striking "The
22	Commission" and inserting the following:
23	"(2) REGULATION.—The Commission"; and
24	(3) by striking "c. The Commission" and in-
25	serting the following:

- 1 "e. Research and Development Activities.—
- 2 "(1) In General.—Subject to paragraphs (2)
- 3 and (3), the Commission".
- 4 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
- 5 (a) Short Title.—This Act may be cited as the
- 6 "American Nuclear Infrastructure Act of 2020".
- 7 (b) Table of Contents.—The table of contents for
- 8 this Act is as follows:
  - Sec. 1. Short title; table of contents.
  - Sec. 2. Definitions.

## TITLE I—REESTABLISHING AMERICAN INTERNATIONAL COMPETITIVENESS AND GLOBAL LEADERSHIP

- Sec. 101. International nuclear reactor export and innovation activities.
- Sec. 102. Denial of certain domestic licenses for national security purposes.
- Sec. 103. Export license requirements.

# TITLE II—EXPANDING NUCLEAR ENERGY THROUGH ADVANCED NUCLEAR TECHNOLOGIES

- Sec. 201. Advanced nuclear reactor prizes.
- Sec. 202. Report on unique licensing considerations relating to the use of nuclear energy for nonelectric applications.
- Sec. 203. Enabling preparations for the demonstration of advanced nuclear reactors on Department sites.

#### TITLE III—PRESERVING EXISTING NUCLEAR ENERGY GENERATION

- Sec. 301. Nuclear reactor incentives.
- Sec. 302. Report on lessons learned during the COVID-19 public health emergency.
- Sec. 303. Investment by allies.

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- Sec. 401. Advanced nuclear fuel approval.
- Sec. 402. National strategic uranium reserve.
- Sec. 403. Report on advanced methods of manufacturing and construction for nuclear energy applications.

# TITLE V—MISCELLANEOUS

- Sec. 501. Nuclear energy workforce development.
- Sec. 502. Annual report on the spent nuclear fuel and high-level radioactive waste inventory in the United States.

Sec. 503. Authorization of appropriations for superfund actions at abandoned mining sites on Tribal land.

Sec. 504. Nuclear closure communities.

 $Sec.\ 505.\ Report\ on\ corporate\ support.$ 

Sec. 506. Technical correction.

# 1 SEC. 2. DEFINITIONS.

2	In this Act:
3	(1) Accident tolerant fuel.—The term "ac-
4	cident tolerant fuel" has the meaning given the term
5	in section 107(a) of the Nuclear Energy Innovation
6	and Modernization Act (Public Law 115-439; 132
7	Stat. 5577).
8	(2) Administrator.—The term "Adminis-
9	trator" means the Administrator of the Environ-
10	mental Protection Agency.
11	(3) Advanced nuclear fuel.—The term "ad-
12	vanced nuclear fuel" means—
13	(A) advanced nuclear reactor fuel (as de-
14	fined in section 3 of the Nuclear Energy Innova-
15	tion and Modernization Act (42 U.S.C. 2215
16	note; Public Law 115–439)); and
17	(B) accident tolerant fuel.
18	(4) Advanced nuclear reactor.—The term
19	"advanced nuclear reactor" has the meaning given the
20	term in section 3 of the Nuclear Energy Innovation
21	and Modernization Act (42 U.S.C. 2215 note; Public
22	Law 115–439).

1	(5) Appropriate committees of Congress.—
2	The term "appropriate committees of Congress"
3	means—
4	(A) the Committee on Environment and
5	Public Works of the Senate; and
6	(B) the Committee on Energy and Com-
7	merce of the House of Representatives.
8	(6) Chairman.—The term "Chairman" means
9	the Chairman of the Nuclear Regulatory Commission.
10	(7) Commission.—The term "Commission"
11	means the Nuclear Regulatory Commission.
12	(8) Department.—The term "Department"
13	means the Department of Energy.
14	(9) Early site permit.—The term "early site
15	permit" has the meaning given the term in section
16	52.1 of title 10, Code of Federal Regulations (or a
17	successor regulation).
18	(10) High-assay, low-enriched uranium.—
19	The term "high-assay, low-enriched uranium" means
20	uranium with an assay greater than 5 weight per-
21	cent, but less than 20 weight percent, of the uranium-
22	235 isotope.
23	(11) Institution of higher education.—The
24	term "institution of higher education" has the mean-

1	ing given the term in section 101(a) of the Higher
2	Education Act of 1965 (20 U.S.C. 1001(a)).
3	(12) National Laboratory.—The term "Na-
4	tional Laboratory" has the meaning given the term in
5	section 2 of the Energy Policy Act of 2005 (42 U.S.C.
6	15801).
7	(13) Removal; remedial action.—The terms
8	"removal" and "remedial action" have the meanings
9	given those terms in section 101 of the Comprehensive
10	Environmental Response, Compensation, and Liabil-
11	ity Act of 1980 (42 U.S.C. 9601).
12	(14) Secretary.—The term "Secretary" means
13	the Secretary of Energy.
14	(15) Tribal Land.—The term "Tribal land" has
15	the meaning given the term "Indian country" in sec-
16	tion 1151 of title 18, United States Code.
17	TITLE I—REESTABLISHING
18	AMERICAN INTERNATIONAL
19	COMPETITIVENESS AND
20	GLOBAL LEADERSHIP
21	SEC. 101. INTERNATIONAL NUCLEAR REACTOR EXPORT
22	AND INNOVATION ACTIVITIES.
23	(a) Coordination.—
24	(1) In general.—The Commission shall—

1	(A) coordinate all work of the Commission
2	relating to—
3	(i) nuclear reactor import and export
4	licensing; and
5	(ii) international regulatory coopera-
6	tion and assistance relating to nuclear reac-
7	tors, including with countries that are
8	members of the Organisation for Economic
9	Co-operation and Development; and
10	(B) support interagency and international
11	coordination with respect to—
12	(i) the consideration of international
13	technical standards to establish the licensing
14	and regulatory basis to assist the design,
15	construction, and operation of nuclear sys-
16	tems;
17	(ii) efforts to help build competent nu-
18	clear regulatory organizations and legal
19	frameworks in countries seeking to develop
20	nuclear power; and
21	(iii) exchange programs and training
22	provided to other countries relating to nu-
23	clear regulation and oversight to improve
24	nuclear technology licensing, in accordance
25	with paragraph (2).

1	(2) Exchange programs and training.—With
2	respect to the exchange programs and training de-
3	scribed in $paragraph$ (1)(B)(iii), the Commission
4	shall coordinate, as applicable, with—
5	(A) the Secretary;
6	(B) National Laboratories;
7	(C) the private sector; and
8	(D) institutions of higher education.
9	(b) Authority to Establish Branch.—The Com-
10	mission may establish within the Office of International
11	Programs a branch, to be known as the "International Nu-
12	clear Reactor Export and Innovation Branch", to carry out
13	such international nuclear reactor export and innovation
14	activities as the Commission determines to be appropriate
15	and within the mission of the Commission.
16	(c) Exclusion of International Activities From
17	THE FEE BASE.—
18	(1) In general.—Section 102 of the Nuclear
19	Energy Innovation and Modernization Act (42 U.S.C.
20	2215) is amended—
21	(A) in subsection (a), by adding at the end
22	$the\ following:$
23	"(4) International nuclear reactor export
24	AND INNOVATION ACTIVITIES.—The Commission shall
25	identify in the annual budget justification inter-

1	national nuclear reactor export and innovation ac-
2	tivities described in section 101(a) of the American
3	Nuclear Infrastructure Act of 2020."; and
4	(B) in subsection $(b)(1)(B)$ , by adding at
5	the end the following:
6	"(iv) Costs for international nuclear
7	reactor export and innovation activities de-
8	scribed in section 101(a) of the American
9	Nuclear Infrastructure Act of 2020.".
10	(2) Effective date.—The amendments made
11	by paragraph (1) shall take effect on October 1, 2021.
12	(d) Savings Clause.—Nothing in this section alters
13	the authority of the Commission to license and regulate the
14	civilian use of radioactive materials.
15	SEC. 102. DENIAL OF CERTAIN DOMESTIC LICENSES FOR
16	NATIONAL SECURITY PURPOSES.
17	(a) Definition of Covered Fuel.—In this section,
18	the term "covered fuel" means enriched uranium that is
19	fabricated into fuel assemblies for nuclear reactors by an
20	entity that—
21	(1) is owned or controlled by the Government of
22	the Russian Federation or the Government of the Peo-
23	ple's Republic of China; or

1	(2) is organized under the laws of, or otherwise
2	subject to the jurisdiction of, the Russian Federation
3	or the People's Republic of China.
4	(b) Prohibition on Unlicensed Possession or
5	Ownership of Covered Fuel.—Unless specifically au-
6	thorized by the Commission in a license issued under sec-
7	tion 53 of the Atomic Energy Act of 1954 (42 U.S.C. 2073)
8	and part 70 of title 10, Code of Federal Regulations (or
9	successor regulations), no person subject to the jurisdiction
10	of the Commission may possess or own covered fuel.
11	(c) License to Possess or Own Covered Fuel.—
12	(1) Consultation required prior to
13	ISSUANCE.—The Commission shall not issue a license
14	to possess or own covered fuel under section 53 of the
15	Atomic Energy Act of 1954 (42 U.S.C. 2073) and
16	part 70 of title 10, Code of Federal Regulations (or
17	successor regulations), unless the Commission has first
18	consulted with the Secretary and the Secretary of
19	State before issuing the license.
20	(2) Prohibition on issuance of license.—
21	(A) In general.—Subject to subparagraph
22	(C), a license to possess or own covered fuel shall
23	not be issued if the Secretary and the Secretary
24	of State make the determination described in
25	subparagraph (B).

1	(B) Determination.—
2	(i) In General.—The determination
3	referred to in subparagraph (A) is a deter-
4	mination that possession or ownership, as
5	applicable, of covered fuel poses a threat to
6	the national security of the United States
7	that adversely impacts the physical and eco-
8	nomic security of the United States.
9	(ii) Joint Determination.—A deter-
10	mination described in clause (i) shall be
11	jointly made by the Secretary and the Sec-
12	retary of State.
13	(iii) Timeline.—
14	(I) Notice of Application.—Not
15	later than 30 days after the date on
16	which the Commission receives an ap-
17	plication for a license to possess or
18	own covered fuel, the Commission shall
19	notify the Secretary and the Secretary
20	of State of the application.
21	(II) Determination.—The Sec-
22	retary and the Secretary of State shall
23	have a period of 180 days, beginning
24	on the date on which the Commission
25	notifies the Secretary and the Sec-

1	retary of State under subclause (I) of
2	an application for a license to possess
3	or own covered fuel, in which to make
4	the determination described in clause
5	(i).
6	(III) Commission notifica-
7	TION.—On making the determination
8	described in clause (i), the Secretary
9	and the Secretary of State shall imme-
10	diately notify the Commission.
11	(IV) Congressional notifica-
12	TION.—Not later than 30 days after
13	the date on which the Secretary and
14	the Secretary of State notify the Com-
15	mission under subclause (III), the
16	Commission shall notify the appro-
17	priate committees of Congress of the
18	determination.
19	(V) Public notice.—Not later
20	than 15 days after the date on which
21	the Commission notifies Congress
22	under subclause (IV) of a determina-
23	tion made under clause (i), the Com-
24	mission shall make that determination
25	publicly available.

1	(C) Effect of no determination.—The
2	prohibition described in subparagraph (A) shall
3	not apply if the Secretary and the Secretary of
4	State do not make the determination described in
5	subparagraph (B) by the date described in clause
6	$(iii)(II)\ of\ that\ subparagraph.$
7	(d) Savings Clause.—Nothing in this section alters
8	any treaty or international agreement in effect on the date
9	of enactment of this Act.
10	SEC. 103. EXPORT LICENSE REQUIREMENTS.
11	(a) Definition of Low-Enriched Uranium.—In
12	this section, the term "low-enriched uranium" means ura-
13	nium enriched to less than 20 percent of the uranium-235
14	isotope.
15	(b) Requirement.—The Commission shall not issue
16	an export license for the transfer of any item described in
17	subsection (d) to a country described in subsection (c) unless
18	the Commission makes a determination that such transfer
19	will not be inimical to the interests of the United States.
20	(c) Countries Described.—A country referred to in
21	subsection (b) is a country that—
22	(1) has not concluded and ratified an Additional
23	Protocol to its safeguards agreement with the Inter-
24	national Atomic Energy Agency; or

1	(2) has not ratified or acceded to the amendment
2	to the Convention on the Physical Protection of Nu-
3	clear Material, signed at Vienna and New York
4	March 3, 1980, described in the information circular
5	of the International Atomic Energy Agency numbered
6	INFCIRC/274/Rev.1/Mod.1 and dated May 9, 2016.
7	(d) Items Described.—An item referred to in sub-
8	section (b) includes—
9	(1) unirradiated nuclear fuel containing special
10	nuclear material (as defined in section 11 of the
11	Atomic Energy Act of 1954 (42 U.S.C. 2014)), exclud-
12	ing low-enriched uranium;
13	(2) a nuclear reactor that uses nuclear fuel de-
14	scribed in paragraph (1); and
15	(3) any plant or component listed in Appendix
16	I to part 110 of title 10, Code of Federal Regulations
17	(or successor regulations), that is involved in—
18	(A) the reprocessing of irradiated nuclear
19	reactor fuel elements;
20	(B) the separation of plutonium; or
21	(C) the separation of the uranium-233 iso-
22	tope.
23	(e) Notification.—If the Commission makes a deter-
24	mination under subsection (b) that the transfer of any item
25	described in subsection (d) to a country described in sub-

1	section (c) will not be inimical to the interests of the United
2	States, the Commission shall notify the appropriate com-
3	mittees of Congress.
4	TITLE II—EXPANDING NUCLEAR
5	ENERGY THROUGH AD-
6	VANCED NUCLEAR TECH-
7	NOLOGIES
8	SEC. 201. ADVANCED NUCLEAR REACTOR PRIZES.
9	Section 103 of the Nuclear Energy Innovation and
10	Modernization Act (Public Law 115-439; 132 Stat. 5571)
11	is amended by adding at the end the following:
12	"(f) Prizes for Advanced Nuclear Reactor Li-
13	CENSING.—
14	"(1) Prize for advanced nuclear reactor
15	LICENSING.—
16	"(A) In general.—Subject to the avail-
17	ability of appropriations, the Secretary is au-
18	thorized to make, with respect to each award cat-
19	egory described in subparagraph (C), an award
20	in an amount described in subparagraph (B) to
21	the first non-Federal entity to which the Com-
22	mission issues—
23	"(i) an operating license for an ad-
24	vanced nuclear reactor under part 50 of
25	title 10, Code of Federal Regulations (or

1	successor regulations), for which an appli-
2	cation has not been approved by the Com-
3	mission as of the date of enactment of this
4	subsection; or
5	"(ii) a finding required under section
6	52.103(g) of title 10, Code of Federal Regu-
7	lations (or successor regulations), for a com-
8	bined license for an advanced nuclear reac-
9	tor—
10	"(I) that is issued under subpart
11	C of part 52 that title (or successor
12	regulations); and
13	"(II) for which an application
14	has not been approved by the Commis-
15	sion as of the date of enactment of this
16	subsection.
17	"(B) Amount of Award.—An award under
18	subparagraph (A) shall be in an amount equal
19	to the total amount assessed by the Commission
20	and collected under section 102(b)(2) from the
21	entity receiving the award for costs relating to
22	the issuance of the license described in that sub-
23	paragraph, including, as applicable, costs relat-
24	ing to the issuance of an associated construction
25	permit described in section 50.23 of title 10,

1	Code of Federal Regulations (or successor regula-
2	tions), or early site permit (as defined in section
3	52.1 of that title (or successor regulations)).
4	"(C) Award categories.—An award
5	under subparagraph (A) may be made for—
6	"(i) the first advanced nuclear reactor
7	for which the Commission issues—
8	"(I) a license in accordance with
9	clause (i) of subparagraph (A); or
10	"(II) a finding in accordance
11	with clause (ii) of that subparagraph;
12	"(ii) an advanced nuclear reactor
13	that—
14	"(I) uses isotopes derived from
15	spent nuclear fuel (as defined in sec-
16	tion 2 of the Nuclear Waste Policy Act
17	of 1982 (42 U.S.C. 10101)) or depleted
18	uranium as fuel for the advanced nu-
19	clear reactor; and
20	"(II) is the first advanced nuclear
21	reactor described in subclause (I) for
22	which the Commission issues—
23	"(aa) a license in accordance
24	with clause (i) of subparagraph
25	(A); or

1	"(bb) a finding in accord-
2	ance with clause (ii) of that sub-
3	paragraph; and
4	"(iii) an advanced nuclear reactor
5	that—
6	"(I) operates flexibly to generate
7	electricity or high temperature process
8	heat for nonelectric applications; and
9	"(II) is the first advanced nuclear
10	reactor described in subclause (I) for
11	which the Commission issues—
12	"(aa) a license in accordance
13	with clause (i) of subparagraph
14	(A); or
15	"(bb) a finding in accord-
16	ance with clause (ii) of that sub-
17	paragraph.
18	"(2) Federal funding limitation.—An award
19	under this subsection shall not exceed the total
20	amount expended (excluding any expenditures made
21	with Federal funds received for the applicable project
22	and an amount equal to the minimum cost-share re-
23	quired under section 988 of the Energy Policy Act of
24	2005 (42 U.S.C. 16352)) by the entity receiving the

1	award for licensing costs relating to the project for
2	which the award is made.".
3	SEC. 202. REPORT ON UNIQUE LICENSING CONSIDER-
4	ATIONS RELATING TO THE USE OF NUCLEAR
5	ENERGY FOR NONELECTRIC APPLICATIONS.
6	(a) In General.—Not later than 1 year after the date
7	of enactment of this Act, the Commission shall submit to
8	the appropriate committees of Congress a report (referred
9	to in this section as the "report") addressing any unique
10	licensing issues or requirements relating to—
11	(1) the flexible operation of nuclear reactors,
12	such as ramping power output and switching between
13	electricity generation and nonelectric applications;
14	(2) the use of advanced nuclear reactors exclu-
15	sively for nonelectric applications; and
16	(3) the colocation of nuclear reactors with indus-
17	trial plants or other facilities.
18	(b) Stakeholder Input.—In developing the report,
19	the Commission shall seek input from—
20	(1) the Secretary;
21	(2) the nuclear energy industry;
22	(3) technology developers;
23	(4) the industrial, chemical, and medical sectors;
24	(5) nongovernmental organizations; and
25	(6) other public stakeholders.

1	(c) Contents.—
2	(1) In General.—The report shall describe—
3	(A) any unique licensing issues or require-
4	ments relating to the matters described in para-
5	graphs (1) through (3) of subsection (a), includ-
6	ing, with respect to the nonelectric applications
7	referred to in paragraphs (1) and (2) of that
8	subsection, any licensing issues or requirements
9	relating to the use of nuclear energy in—
10	(i) hydrogen or other liquid and gas-
11	eous fuel or chemical production;
12	(ii) water desalination and wastewater
13	treatment;
14	(iii) heat for industrial processes;
15	(iv) district heating;
16	(v) energy storage;
17	(vi) industrial or medical isotope pro-
18	duction; and
19	(vii) other applications, as identified
20	by the Commission;
21	(B) options for addressing those issues or
22	requirements—
23	(i) within the existing regulatory
24	framework;

1	(ii) as part of the technology-inclusive
2	regulatory framework required under sub-
3	section (a)(4) of section 103 of the Nuclear
4	Energy Innovation and Modernization Act
5	(42 U.S.C. 2133 note; Public Law 115-439)
6	or described in the report required under
7	subsection (e) of that section (Public Law
8	115–439; 132 Stat. 5575); or
9	(iii) through a new rulemaking; and
10	(C) the extent to which Commission action
11	is needed to implement any matter described in
12	the report.
13	(2) Cost estimates, budgets, and time-
14	FRAMES.—The report shall include cost estimates,
15	proposed budgets, and proposed timeframes for imple-
16	menting risk-informed and performance-based regu-
17	latory guidance in the licensing of nuclear reactors
18	for nonelectric applications.
19	SEC. 203. ENABLING PREPARATIONS FOR THE DEMONSTRA-
20	TION OF ADVANCED NUCLEAR REACTORS ON
21	DEPARTMENT SITES.
22	(a) In General.—Section 102(b)(1)(B) of the Nuclear
23	Energy Innovation and Modernization Act (42 U.S.C.
24	2215(b)(1)(B)) (as amended by section 101(c)) is amended
25	by adding at the end the following:

1	"(v) Costs for—
2	"(I) activities to review and ap-
3	prove or disapprove an application for
4	an early site permit (as defined in sec-
5	tion 52.1 of title 10, Code of Federal
6	Regulations (or a successor regula-
7	tion)) to demonstrate an advanced nu-
8	clear reactor on a Department of En-
9	ergy site; and
10	"(II) pre-application activities re-
11	lating to an early site permit (as so
12	defined) to demonstrate an advanced
13	nuclear reactor on a Department of
14	Energy site.".
15	(b) Effective Date.—The amendment made by sub-
16	section (a) shall take effect on October 1, 2021.
17	TITLE III—PRESERVING EXIST-
18	ING NUCLEAR ENERGY GEN-
19	<b>ERATION</b>
20	SEC. 301. NUCLEAR REACTOR INCENTIVES.
21	(a) Definitions.—In this section:
22	(1) Certified nuclear reactor.—The term
23	"certified nuclear reactor" means a nuclear reactor
24	that—

1	(A) operates in a competitive electricity
2	market; and
3	(B) is certified under subsection $(c)(2)(A)(i)$
4	to submit a sealed bid in accordance with sub-
5	section (d).
6	(2) Credit.—The term "credit" means a credit
7	allocated to a certified nuclear reactor under sub-
8	section $(e)(2)$ .
9	(b) Establishment of Program.—Subject to the
10	availability of appropriations, the Administrator, in con-
11	sultation with the Secretary, shall establish an emissions
12	avoidance program—
13	(1) to evaluate nuclear reactors that are pro-
14	jected to cease operations due to economic factors; and
15	(2) to allocate credits to certified nuclear reactors
16	that are selected under paragraph $(1)(B)$ of subsection
17	(e) to receive credits under paragraph (2) of that sub-
18	section.
19	(c) Certification.—
20	(1) Application.—
21	(A) In general.—In order to be certified
22	under paragraph $(2)(A)(i)$ , the owner or oper-
23	ator of a nuclear reactor that is projected to
24	cease operations due to economic factors shall
25	submit to the Administrator an application at

1	such time, in such manner, and containing such
2	information as the Administrator determines to
3	be appropriate, including—
4	(i) information on the operating costs
5	necessary to make the examination de-
6	$scribed\ in\ paragraph\ (2)(A)(ii)(II),\ includ-$
7	ing—
8	(I) the average annual operating
9	loss per megawatt-hour expected to be
10	incurred by the nuclear reactor over
11	the 4-year period for which credits
12	would be allocated;
13	(II) any private or publicly avail-
14	able data with respect to current or
15	projected bulk power market prices;
16	(III) out-of-market revenue
17	streams;
18	(IV) operations and maintenance
19	costs;
20	(V) capital costs, including fuel;
21	and
22	(VI) operational and market risks;
23	(ii) an estimate of the potential incre-
24	mental emissions of carbon dioxide, nitro-
25	gen oxides, sulfur oxides, particulate matter,

1	and hazardous air pollutants that would re-
2	sult if the nuclear reactor were to cease op-
3	erations;
4	(iii) information on the source of re-
5	covered uranium and the location where the
6	uranium is converted, enriched, and fab-
7	ricated into fuel assemblies for the nuclear
8	reactor for the 4-year period for which cred-
9	its would be allocated; and
10	(iv) a detailed plan to sustain oper-
11	ations at the conclusion of the applicable 4-
12	year period for which credits would be allo-
13	cated—
14	(I) without receiving additional
15	$credits;\ or$
16	(II) with the receipt of additional
17	credits of a lower amount than the
18	credits allocated during that 4-year
19	credit period.
20	(B) Timeline.—The Administrator shall
21	accept applications described in subparagraph
22	(A)—
23	(i) until the date that is 120 days after
24	the date of enactment of this Act; and

1	(ii) not less frequently than every year
2	the reafter.
3	(2) Determination to certify.—
4	(A) Determination.—
5	(i) In general.—Not later than 60
6	days after the applicable date under sub-
7	paragraph (B) of paragraph (1), the Ad-
8	ministrator, in consultation with the Sec-
9	retary, shall determine whether to certify, in
10	accordance with clauses (ii) and (iii), each
11	nuclear reactor for which an application is
12	submitted under subparagraph (A) of that
13	paragraph.
14	(ii) Minimum requirements.—To the
15	maximum extent practicable, the Adminis-
16	trator, in consultation with the Secretary,
17	shall only certify a nuclear reactor under
18	clause (i) if—
19	(I) the nuclear reactor has a good
20	safety record, as determined by the Ac-
21	tion Matrix of the Commission or the
22	Performance Indicators of the Reactor
23	Oversight Process, such that the nu-
24	clear reactor falls under the "licensee

1	response" column indicating no cur-
2	rent significant safety issues;
3	(II) after considering the informa-
4	tion submitted under paragraph
5	(1)(A)(i), the Administrator determines
6	that the nuclear reactor is projected to
7	cease operations due to economic fac-
8	tors; and
9	(III) after considering the esti-
10	mate submitted under paragraph
11	(1)(A)(ii), the Administrator deter-
12	mines that emissions of carbon dioxide,
13	nitrogen oxides, sulfur oxides, particu-
14	late matter, and hazardous air pollut-
15	ants would increase if the nuclear reac-
16	tor were to cease operations and be re-
17	placed with other types of power gen-
18	eration.
19	(iii) Priority.—In determining
20	whether to certify a nuclear reactor under
21	clause (i), the Administrator, in consulta-
22	tion with the Secretary, shall give priority
23	to a nuclear reactor that uses uranium that
24	is recovered, converted, enriched, and fab-

1	ricated into fuel assemblies in the United
2	States.
3	(B) Notice.—For each application received
4	under paragraph (1)(A), the Administrator, in
5	consultation with the Secretary, shall provide to
6	the applicable owner or operator, as applicable—
7	(i) a notice of the certification of the
8	applicable nuclear reactor; or
9	(ii) a notice that describes the reasons
10	why the certification of the applicable nu-
11	clear reactor was denied.
12	(d) Bidding Process.—
13	(1) In general.—Subject to paragraph (2), the
14	Administrator shall establish a deadline by which
15	each certified nuclear reactor shall submit to the Ad-
16	ministrator a sealed bid that—
17	(A) describes the price per megawatt-hour
18	required to maintain operations of the certified
19	nuclear reactor during the 4-year period for
20	which the certified nuclear reactor would receive
21	credits; and
22	(B) includes a commitment, subject to the
23	receipt of credits, to provide a specific number of
24	megawatt-hours of generation during the 4-year
25	period for which credits would be allocated.

(2) Requirement.—The deadline established 1 2 under paragraph (1) shall be not later than 30 days after the first date on which the Administrator has 3 4 made the determination described in paragraph (2)(A)(i) of subsection (c) with respect to each appli-5 6 cation submitted under paragraph (1)(A) of that sub-7 section. 8 (e) ALLOCATION.— 9 (1) Auction.—The Administrator, in consultation with the Secretary, shall— 10 11 (A) in consultation with the heads of appli-12 cable Federal agencies, establish a process for 13 evaluating bids submitted under subsection 14 (d)(1) through an auction process; and 15 (B) select certified nuclear reactors to be allocated credits. 16 17 (2) CREDITS.—Subject to subsection (f)(2), on se-18 lection under paragraph (1), a certified nuclear reac-19 tor shall be allocated credits for a 4-year period be-20 ginning on the date of the selection. 21 (3) Requirement.—To the maximum extent 22 practicable, the Administrator shall use the amounts 23 made available for credits under this section to allo-24 cate credits to as many certified nuclear reactors as

possible.

25

1	(f) Renewal.—
2	(1) In general.—The owner or operator of a
3	certified nuclear reactor may seek to recertify the nu
4	clear reactor in accordance with this section.
5	(2) Limitation.—Notwithstanding any other
6	provision of this section, the Administrator may not
7	allocate any credits after September 30, 2026.
8	(g) Additional Requirements.—
9	(1) Audit.—During the 4-year period beginning
10	on the date on which a certified nuclear reactor first
11	receives a credit, the Administrator, in consultation
12	with the Secretary, shall periodically audit the cer-
13	tified nuclear reactor.
14	(2) Recapture.—The Administrator shall, by
15	regulation, provide for the recapture of the allocation
16	of any credit to a certified nuclear reactor that, dur-
17	ing the period described in paragraph (1)—
18	(A) terminates operations; or
19	(B) does not operate at an annual loss in
20	the absence of an allocation of credits to the cer-
21	tified nuclear reactor.
22	(3) Confidentiality.—The Administrator, in
23	consultation with the Secretary, shall establish proce-
24	dures to ensure that any confidential, private, propri-

etary, or privileged information that is included in a

25

1	sealed bid submitted under this section is not publicly
2	disclosed or otherwise improperly used.
3	(h) Report.—Not later than January 1, 2024, the
4	Comptroller General of the United States shall submit to
5	Congress a report with respect to the credits allocated to
6	certified nuclear reactors, which shall include—
7	(1) an evaluation of the effectiveness of the cred-
8	its in avoiding emissions of carbon dioxide, nitrogen
9	oxides, sulfur oxides, particulate matter, and haz-
10	ardous air pollutants while ensuring grid reliability;
11	(2) a quantification of the ratepayer savings
12	achieved under this section; and
13	(3) any recommendations to renew or expand the
14	credits.
15	(i) Authorization of Appropriations.—There are
16	authorized to be appropriated such sums as are necessary
17	to carry out this section for each of fiscal years 2021
18	through 2026.
19	SEC. 302. REPORT ON LESSONS LEARNED DURING THE
20	COVID-19 PUBLIC HEALTH EMERGENCY.
21	(a) In General.—Not later than 180 days after the
22	date of enactment of this Act, the Commission shall submit
23	to the appropriate committees of Congress and make pub-
24	licly available a report on actions taken by the Commission
25	during the public health emergency declared by the Sec-

1	retary of Health and Human Services under section 319
2	of the Public Health Service Act (42 U.S.C. 247d) on Janu-
3	ary 31, 2020, with respect to COVID-19.
4	(b) Contents.—The report under subsection (a) shall
5	include—
6	(1) an identification of the processes, procedures,
7	and other regulatory policies that were revised or
8	temporarily suspended during the public health emer-
9	gency described in subsection (a);
10	(2) a review of actions, if any, taken by the
11	Commission that examines how any revision or tem-
12	porary suspension of a process, procedure, or other
13	regulatory policy identified under paragraph (1) may
14	or may not have compromised the ability of the Com-
15	mission to license and regulate the civilian use of ra-
16	dioactive materials in the United States to protect
17	public health and safety, promote the common defense
18	and security, and protect the environment;
19	(3) a description of any process efficiencies or
20	challenges that resulted from the matters identified
21	under paragraph (1);
22	(4) a discussion of lessons learned from the mat-
23	ters described in paragraphs (1), (2), and (3);
24	(5) a list of actions that the Commission may

take to incorporate into the licensing activities and

25

1	regulations of the Commission, without compromising
2	the mission of the Commission—
3	(A) the lessons described in paragraph (4);
4	and
5	(B) the information provided under para-
6	graphs (2) and (3); and
7	(6) a description of when the actions described in
8	paragraph (5) may be implemented.
9	SEC. 303. INVESTMENT BY ALLIES.
10	(a) In General.—The prohibitions against issuing
11	certain licenses for utilization facilities to certain corpora-
12	tions and other entities described in the second sentence of
13	section 103 d. of the Atomic Energy Act of 1954 (42 U.S.C.
14	2133(d)) and the second sentence of section 104 d. of that
15	Act (42 U.S.C. 2134(d)) shall not apply to an entity de-
16	scribed in subsection (b) if the Commission determines that
17	issuance of the applicable license to that entity is not inim-
18	ical to—
19	(1) the common defense and security; or
20	(2) the health and safety of the public.
21	(b) Entities Described.—An entity referred to in
22	subsection (a) is a corporation or other entity that is owned,
23	controlled, or dominated by—
24	(1) the government of—

1	(A) a country that is a member of the
2	Group of Seven as of November 25, 2020, which
3	includes the United Kingdom, Germany, Can-
4	ada, Japan, France, and Italy; or
5	(B) the Republic of Korea;
6	(2) a corporation that is incorporated in a coun-
7	try described in subparagraph (A) or (B) of para-
8	graph (1); or
9	(3) an alien who is a national of a country de-
10	scribed in subparagraph (A) or (B) of paragraph (1).
11	(c) Technical Amendment.—Section 103 d. of the
12	Atomic Energy Act of 1954 (42 U.S.C. 2133(d)) is amend-
13	ed, in the second sentence, by striking "any any" and in-
14	serting "any".
15	(d) Savings Clause.—Nothing in this section affects
16	the requirements of section 721 of the Defense Production
17	Act of 1950 (50 U.S.C. 4565).
18	TITLE IV—REVITALIZING AMER-
19	ICA'S NUCLEAR SUPPLY
20	CHAIN INFRASTRUCTURE
21	SEC. 401. ADVANCED NUCLEAR FUEL APPROVAL.
22	(a) AGENCY COORDINATION.—
23	(1) In General.—Not later than 1 year after
24	the date of enactment of this Act, the Chairman and

1	the Secretary shall enter into a memorandum of un-
2	derstanding relating to advanced nuclear fuels.
3	(2) Memorandum of understanding con-
4	TENTS.—The memorandum of understanding entered
5	into under paragraph (1) shall require the Depart-
6	ment and the Commission to coordinate, as appro-
7	priate—
8	(A) to ensure that the Department has suffi-
9	cient technical expertise to support the timely re-
10	search, development, demonstration, and com-
11	mercial application by the civilian nuclear in-
12	dustry of innovative advanced nuclear fuels, in-
13	cluding by facilitating the development and
14	sharing of criticality benchmark data to sup-
15	port—
16	(i) the licensing of fuel enrichment,
17	deconversion, and fabrication facilities
18	for—
19	(I) advanced nuclear fuels con-
20	taining high-assay, low-enriched ura-
21	nium with an assay greater than 5
22	weight percent, but less than 10 weight
23	percent, of the uranium-235 isotope;
24	and

1	(II) advanced nuclear fuels con-
2	taining high-assay, low-enriched ura-
3	nium with an assay greater than or
4	equal to 10 weight percent, but less
5	than 20 weight percent, of the ura-
6	nium-235 isotope; and
7	(ii) the certification of transportation
8	packages for—
9	(I) advanced nuclear fuels con-
10	taining high-assay, low-enriched ura-
11	nium with an assay greater than 5
12	weight percent, but less than 10 weight
13	percent, of the uranium-235 isotope;
14	and
15	(II) advanced nuclear fuels con-
16	taining high-assay, low-enriched ura-
17	nium with an assay greater than or
18	equal to 10 weight percent, but less
19	than 20 weight percent, of the ura-
20	nium-235 $isotope;$
21	(B) to ensure that the Commission has suf-
22	ficient technical expertise to support the evalua-
23	tion of advanced nuclear fuels;
24	(C) to identify methods to improve the use
25	of computers and software codes to calculate the

1	behavior and performance of advanced nuclear
2	fuels based on mathematical models of the phys-
3	ical behavior of advanced nuclear fuels;
4	(D) to ensure that the Department main-
5	tains and develops the facilities necessary to en-
6	able the timely research, development, dem-
7	onstration, and commercial application by the
8	civilian nuclear industry of innovative advanced
9	nuclear fuels; and
10	(E) to ensure that the Commission has ac-
11	cess to the facilities described in subparagraph
12	(D), as needed.
13	(b) Reporting Requirements.—Not later than 180
14	days after the date of enactment of this Act, the Commission
15	shall submit to the appropriate committees of Congress a
16	report that—
17	(1) identifies criticality benchmark data to as-
18	sist—
19	(A) the licensing of fuel enrichment,
20	deconversion, and fabrication facilities for—
21	(i) advanced nuclear fuels containing
22	high-assay, low-enriched uranium with an
23	assay greater than 5 weight percent, but less
24	than 10 weight percent, of the uranium-235
25	$isotope;\ and$

1	(ii) advanced nuclear fuels containing
2	high-assay, low-enriched uranium with an
3	assay greater than or equal to 10 weight
4	percent, but less than 20 weight percent, of
5	the uranium-235 isotope; and
6	(B) the certification of transportation pack-
7	ages for—
8	(i) advanced nuclear fuels containing
9	high-assay, low-enriched uranium with an
10	assay greater than 5 weight percent, but less
11	than 10 weight percent, of the uranium-235
12	$isotope;\ and$
13	(ii) advanced nuclear fuels containing
14	high-assay, low-enriched uranium with an
15	assay greater than or equal to 10 weight
16	percent, but less than 20 weight percent, of
17	the uranium-235 isotope;
18	(2) identifies and describes any updates to regu-
19	lations, certifications, and other regulatory policies
20	that the Commission determines are necessary for li-
21	censing and oversight relating to high-assay, low-en-
22	riched uranium, including—
23	(A) certifications relating to transportation
24	packages for—

1	(i) high-assay, low-enriched uranium
2	with an assay greater than 5 weight per-
3	cent, but less than 10 weight percent, of the
4	uranium-235 isotope; and
5	(ii) high-assay, low-enriched uranium
6	with an assay greater than or equal to 10
7	weight percent, but less than 20 weight per-
8	cent, of the uranium-235 isotope; and
9	(B) licensing of fuel enrichment,
10	deconversion, and fabrication facilities for high-
11	assay, low-enriched uranium, and associated
12	physical security plans for those facilities;
13	(3) identifies and describes any updates to regu-
14	lations, certifications, and other regulatory policies
15	that the Commission determines are necessary to ad-
16	dress nuclear nonproliferation considerations that—
17	(A) are within the mission of the Commis-
18	sion; and
19	(B) are associated with—
20	(i) high-assay, low-enriched uranium
21	with an assay greater than 5 weight per-
22	cent, but less than 10 weight percent, of the
23	uranium-235 isotope; or
24	(ii) high-assay, low-enriched uranium
25	with an assay greater than or equal to 10

1	weight percent, but less than 20 weight per-
2	cent, of the uranium-235 isotope;
3	(4) identifies and describes—
4	(A) any data needs, regulatory require-
5	ments, or policies identified under paragraph
6	(1), (2), or (3) that—
7	(i) differ based on whether they are re-
8	lated to—
9	(I) high-assay, low-enriched ura-
10	nium with an assay greater than 5
11	weight percent, but less than 10 weight
12	percent, of the uranium-235 isotope; or
13	(II) high-assay, low-enriched ura-
14	nium with an assay greater than or
15	equal to 10 weight percent, but less
16	than 20 weight percent, of the ura-
17	nium-235 isotope; or
18	(ii) are unique to—
19	(I) high-assay, low-enriched ura-
20	nium with an assay greater than 5
21	weight percent, but less than 10 weight
22	percent, of the uranium-235 isotope; or
23	(II) high-assay, low-enriched ura-
24	nium with an assay greater than or
25	equal to 10 weight percent, but less

1	than 20 weight percent, of the ura-
2	nium-235 $isotope;$
3	(B) the manner in which the data needs,
4	regulatory requirements, or policies identified
5	under subparagraph (A)(i) differ as described in
6	that subparagraph; and
7	(C) the extent to which the data needs, regu-
8	latory requirements, or policies identified under
9	subparagraph (A)(ii) are unique to either—
10	(i) high-assay, low-enriched uranium
11	with an assay greater than 5 weight per-
12	cent, but less than 10 weight percent, of the
13	uranium-235 isotope; or
14	(ii) high-assay, low-enriched uranium
15	with an assay greater than or equal to 10
16	weight percent, but less than 20 weight per-
17	cent, of the uranium-235 isotope; and
18	(5) includes a timeline for completing the up-
19	dates described in paragraphs (2) and (3) within the
20	existing regulatory framework.
21	SEC. 402. NATIONAL STRATEGIC URANIUM RESERVE.
22	(a) Definitions.—In this section:
23	(1) Program.—The term "program" means the
24	$program\ established\ under\ subsection\ (b)$ (1).

1	(2) Uranium reserve.—The term "Uranium
2	Reserve" means the uranium reserve operated pursu-
3	ant to the program.
4	(b) Establishment.—
5	(1) In general.—Not later than 60 days after
6	the date of enactment of this Act, the Secretary, sub-
7	ject to the availability of appropriations, shall estab-
8	lish a program to operate a uranium reserve in ac-
9	cordance with this section.
10	(2) AUTHORITY.—In establishing the program
11	and operating the Uranium Reserve, the Secretary
12	shall use the authority granted to the Secretary by
13	sections 53, 63, and 161 g. of the Atomic Energy Act
14	of 1954 (42 U.S.C. 2073, 2093, 2201(g)).
15	(c) Purposes.—The purposes of the Uranium Reserve
16	are—
17	(1) to provide assurance of the availability of
18	uranium recovered in the United States in the event
19	of a market disruption; and
20	(2) to support strategic fuel cycle capabilities in
21	the United States.
22	(d) Exclusion.—The Secretary shall exclude from the
23	Uranium Reserve uranium that is recovered in the United
24	States by an entity that—

1	(1) is owned or controlled by the Government of
2	the Russian Federation or the Government of the Peo-
3	ple's Republic of China; or
4	(2) is organized under the laws of, or otherwise
5	subject to the jurisdiction of, the Russian Federation
6	or the People's Republic of China.
7	(e) Acquisition.—
8	(1) In General.—The Secretary may acquire
9	for the Uranium Reserve only uranium recovered
10	from a facility described in paragraph (2), including,
11	subject to paragraph (3), uranium ore that has been
12	mined.
13	(2) Facilities described.—A facility referred
14	to in paragraph (1) is a facility that—
15	(A)(i) is licensed by the Commission as of
16	the date of enactment of this Act;
17	(ii) is not located on Tribal land; and
18	(iii) is not the subject of an enforcement ac-
19	tion that—
20	(I) was taken—
21	(aa) in response to a violation of
22	a regulation in part 40 of title 10,
23	Code of Federal Regulations (or suc-
24	cessor regulations); and

1	(bb) during the 1-year period end-
2	ing on the date on which the uranium
3	is acquired for the Uranium Reserve;
4	and
5	(II) was characterized as "escalated
6	enforcement"; or
7	(B)(i) as of the date of enactment of this
8	Act, is licensed by a State that has entered into
9	an agreement with the Commission under section
10	274 b. of the Atomic Energy Act of 1954 (42
11	$U.S.C.\ 2021(b));$
12	(ii) is not located on Tribal land; and
13	(iii) is not the subject of an enforcement ac-
14	tion that—
15	(I) was taken—
16	(aa) in response to a violation of
17	an applicable State requirement that is
18	compatible with the regulations of the
19	Commission in part 40 of title 10,
20	Code of Federal Regulations (or suc-
21	cessor regulations); and
22	(bb) during the 1-year period end-
23	ing on the date on which the uranium
24	is acquired for the Uranium Reserve;
25	and

1	(II) was subject to further administra-
2	tive actions, further orders, or the equiva-
3	lent of further administrative actions or or-
4	ders that, alone or in combination, are
5	equivalent to an enforcement action of the
6	Commission that would be characterized as
7	"escalated enforcement" by the Commission,
8	as described in subparagraph $(A)(iii)(II)$ .
9	(3) Requirement.—
10	(A) In general.—Except as provided in
11	subparagraph (B), with respect to any uranium
12	ore acquired by a facility described in paragraph
13	(2) that has been mined, the Secretary may ac-
14	quire for the Uranium Reserve only uranium ex-
15	tracted from a conventional mine that is not lo-
16	cated on—
17	(i) Tribal land;
18	(ii) land located within the outer
19	boundaries of the parcels of land described
20	in Public Land Order 7787 (77 Fed. Reg.
21	2563 (January 18, 2012)); or
22	(iii) Federal land that, as of October 1,
23	2020, is permanently withdrawn from loca-
24	tion and entry under sections 2319 through
25	2344 of the Revised Statutes (commonly

1	known as the "Mining Law of 1872") (30
2	U.S.C. 22 et seq.).
3	(B) Removal and remedial actions.—
4	The Secretary may acquire for the Uranium Re-
5	serve uranium recovered from material obtained
6	as a result of removal or remedial actions car-
7	ried out on abandoned mine land located on
8	$Tribal\ land.$
9	(f) Request for Information.—Not later than 90
10	days after the date of enactment of this Act, the Secretary
11	shall publish a request for information to help the Secretary
12	evaluate—
13	(1) options for the operation and management of
14	the Uranium Reserve;
15	(2) contractual mechanisms pursuant to which
16	the Secretary could acquire uranium; and
17	(3) the quantities, form, transportation, and
18	storage of uranium in the Uranium Reserve.
19	(g) Budget Request.—For each fiscal year begin-
20	ning after the date of enactment of this Act, the Secretary
21	shall include in the budget justification submitted to Con-
22	gress pursuant to section 1105 of title 31, United States
23	Code—

1	(1) a request for amounts for the acquisition,
2	transportation, and storage of uranium in the Ura-
3	nium Reserve; or
4	(2) an explanation of why amounts are not re-
5	quested for the acquisition, transportation, or storage
6	of uranium in the Uranium Reserve.
7	SEC. 403. REPORT ON ADVANCED METHODS OF MANUFAC-
8	TURING AND CONSTRUCTION FOR NUCLEAR
9	ENERGY APPLICATIONS.
10	(a) In General.—Not later than 180 days after the
11	date of enactment of this Act, the Commission shall submit
12	to the appropriate committees of Congress a report (referred
13	to in this subsection as the "report") on manufacturing and
14	construction for nuclear energy applications.
15	(b) Stakeholder Input.—In developing the report,
16	the Commission shall seek input from—
17	(1) the Secretary;
18	(2) the nuclear energy industry;
19	(3) National Laboratories;
20	(4) institutions of higher education;
21	(5) nuclear and manufacturing technology devel-
22	opers;
23	(6) the manufacturing and construction indus-
24	tries;
25	(7) standards development organizations;

1	(8) labor unions;
2	(9) nongovernmental organizations; and
3	(10) other public stakeholders.
4	(c) Contents.—
5	(1) In general.—The report shall—
6	(A) examine any unique licensing issues or
7	requirements relating to the use of innovative—
8	(i) advanced manufacturing processes;
9	and
10	(ii) advanced construction techniques;
11	(B) examine—
12	(i) the requirements for nuclear-grade
13	components in manufacturing and construc-
14	tion for nuclear energy applications;
15	(ii) opportunities to use standard ma-
16	terials, parts, or components in manufac-
17	turing and construction for nuclear energy
18	applications; and
19	(iii) opportunities to use standard ma-
20	terials that are in compliance with existing
21	codes to provide acceptable approaches to
22	support or encapsulate new materials that
23	do not yet have applicable codes;
24	(C) identify any safety aspects of innovative
25	advanced manufacturing processes and advanced

1	construction techniques that are not addressed by
2	existing codes and standards, so that generic
3	guidance may be updated or created, as nec-
4	essary;
5	(D) identify options for addressing the
6	issues, requirements, and opportunities examined
7	under subparagraphs (A) and (B)—
8	(i) within the existing regulatory
9	framework; or
10	(ii) through a new rulemaking; and
11	(E) describe the extent to which Commission
12	action is needed to implement any matter de-
13	scribed in the report.
14	(2) Cost estimates, budgets, and time-
15	FRAMES.—The report shall include cost estimates,
16	proposed budgets, and proposed timeframes for imple-
17	menting risk-informed and performance-based regu-
18	latory guidance for manufacturing and construction
19	for nuclear energy applications.
20	TITLE V—MISCELLANEOUS
21	SEC. 501. NUCLEAR ENERGY WORKFORCE DEVELOPMENT.
22	Section 313 of division C of the Omnibus Appropria-
23	tions Act, 2009 (42 U.S.C. 16274a) is amended—
24	(1) in subsection (b), in the matter preceding
25	paragraph (1), by striking "in each of fiscal years

1	2009 to 2019" and inserting "for each of fiscal years
2	2021 through 2030,"; and
3	(2) by adding at the end the following:
4	"(d) Nuclear Energy Traineeship Subpro-
5	GRAM.—
6	"(1) Definitions.—In this subsection:
7	"(A) Commission.—The term 'Commission'
8	means the Nuclear Regulatory Commission.
9	"(B) Institution of higher edu-
10	CATION.—The term 'institution of higher edu-
11	cation' has the meaning given the term in sec-
12	tion 101(a) of the Higher Education Act of 1965
13	$(20\ U.S.C.\ 1001(a)).$
14	"(C) National Laboratory.—The term
15	'National Laboratory' has the meaning given the
16	term in section 2 of the Energy Policy Act of
17	2005 (42 U.S.C 15801).
18	"(2) Establishment.—The Commission shall
19	establish, as a subprogram of the Integrated Univer-
20	sity Program established under this section, a work-
21	force development subprogram under which the Com-
22	mission, in coordination with institutions of higher
23	education and trade schools, shall competitively
24	award traineeships that provide focused training to

1	meet critical mission needs of the Commission and
2	nuclear workforce needs, including needs relating to—
3	"(A) nuclear criticality safety; and
4	"(B) the nuclear tradecraft workforce.
5	"(3) Requirements.—In carrying out the
6	workforce development program described in para-
7	graph (2), the Commission shall—
8	"(A) coordinate with the Secretary to
9	prioritize the funding of traineeships that focus
10	on—
11	"(i) nuclear workforce needs; and
12	"(ii) critical mission needs of the Com-
13	mission;
14	"(B) encourage appropriate partnerships
15	among—
16	$``(i)\ National\ Laboratories;$
17	"(ii) institutions of higher education;
18	"(iii) trade schools; and
19	"(iv) the nuclear energy industry; and
20	"(C) on an annual basis, evaluate nuclear
21	workforce needs for the purpose of implementing
22	traineeships in focused topical areas that—
23	"(i) address the workforce needs of that
24	community; and

1	"(ii) support critical mission needs of
2	the Commission.".
3	SEC. 502. ANNUAL REPORT ON THE SPENT NUCLEAR FUEL
4	AND HIGH-LEVEL RADIOACTIVE WASTE IN-
5	VENTORY IN THE UNITED STATES.
6	(a) Definitions.—In this section:
7	(1) High-level radioactive waste.—The
8	term "high-level radioactive waste" has the meaning
9	given the term in section 2 of the Nuclear Waste Pol-
10	icy Act of 1982 (42 U.S.C. 10101).
11	(2) Spent nuclear fuel.—The term "spent
12	nuclear fuel" has the meaning given the term in sec-
13	tion 2 of the Nuclear Waste Policy Act of 1982 (42
14	U.S.C. 10101).
15	(3) Standard contract.—The term "standard
16	contract" has the meaning given the term "contract"
17	in section 961.3 of title 10, Code of Federal Regula-
18	tions (or a successor regulation).
19	(b) Report.—Not later than January 1, 2022, and
20	annually thereafter, the Secretary shall submit to Congress
21	a report that describes—
22	(1) the annual and cumulative amount of pay-
23	ments made by the United States to the holder of a
24	standard contract due to a partial breach of contract
25	under the Nuclear Waste Policy Act of 1982 (42

1	U.S.C. 10101 et seq.) resulting in financial damages
2	to the holder;

- (2) the amount spent by the Department to reduce future payments projected to be made by the United States to any holder of a standard contract due to a partial breach of contract under the Nuclear Waste Policy Act of 1982 (42 U.S.C. 10101 et seq.);
- (3) the cumulative amount spent by the Department to store, manage, and dispose of spent nuclear fuel and high-level radioactive waste in the United States as of the date of the report;
- (4) the projected lifecycle costs to store, manage, transport, and dispose of the projected inventory of spent nuclear fuel and high-level radioactive waste in the United States, including spent nuclear fuel and high-level radioactive waste expected to be generated from existing reactors through 2050;
- (5) any mechanisms for better accounting of liabilities for the lifecycle costs of the spent nuclear fuel and high-level radioactive waste inventory in the United States; and
- (6) any recommendations for improving the methods used by the Department for the accounting of spent nuclear fuel and high-level radioactive waste costs and liabilities.

1	SEC. 503. AUTHORIZATION OF APPROPRIATIONS FOR						
2	SUPERFUND ACTIONS AT ABANDONED MIN-						
3	ING SITES ON TRIBAL LAND.						
4	(a) Definitions.—In this section:						
5	(1) Eligible non-NPL site.—The term "eligi-						
6	ble non-NPL site" means a site that—						
7	(A) is not on the National Priorities List;						
8	but						
9	(B) the Administrator determines would be						
10	eligible for listing on the National Priorities List						
11	based on the presence of hazards from contami-						
12	nation at the site, applying the hazard ranking						
13	system described in section 105(c) of the Com-						
14	prehensive Environmental Response, Compensa-						
15	tion, and Liability Act of 1980 (42 U.S.C.						
16	9605(c)).						
17	(2) Indian Tribe.—The term "Indian Tribe"						
18	has the meaning given the term "Indian tribe" in sec-						
19	tion 101 of the Comprehensive Environmental Re-						
20	sponse, Compensation, and Liability Act of 1980 (42						
21	U.S.C. 9601).						
22	(3) National priorities list.—The term "Na-						
23	tional Priorities List" means the National Priorities						
24	List developed by the President in accordance with						
25	section 105(a)(8)(B) of the Comprehensive Environ-						

1	mental Response, Compensation, and Liability Act of
2	1980 (42 U.S.C. $9605(a)(8)(B)$ ).
3	(b) AUTHORIZATION OF APPROPRIATIONS.—There are
4	authorized to be appropriated for each of fiscal years 2021
5	through 2030, to remain available until expended—
6	(1) \$97,000,000 to the Administrator to carry
7	out this section (except for subsection (d)); and
8	(2) \$3,000,000 to the Administrator of the Agen-
9	cy for Toxic Substances and Disease Registry to carry
10	$out\ subsection\ (d).$
11	(c) USES OF AMOUNTS.—Amounts appropriated under
12	subsection (b)(1) shall be used by the Administrator—
13	(1) to carry out removal actions on abandoned
14	mine land located on Tribal land;
15	(2) to carry out remedial actions on abandoned
16	mine land located on Tribal land at—
17	(A) eligible non-NPL sites; and
18	(B) sites listed on the National Priorities
19	$List; \ and$
20	(3) to make grants under subsection (e).
21	(d) Health Assessments.—Subject to the avail-
22	ability of appropriations, the Agency for Toxic Substances
23	and Disease Registry, in coordination with Tribal health
24	authorities, shall perform 1 or more health assessments at
25	each eliqible non-NPL site that is located on Tribal land.

1	(e) Grants for Technical Assistance.—					
2	(1) In General.—The Administrator may use					
3	amounts appropriated under subsection (b)(1) to					
4	make grants to Indian Tribes on whose land is lo-					
5	cated an eligible non-NPL site.					
6	(2) USE OF GRANT FUNDS.—A grant under					
7	paragraph (1) shall be used in accordance with the					
8	second sentence of section 117(e)(1) of the Comprehen-					
9	sive Environmental Response, Compensation, and Li-					
10	ability Act of 1980 (42 U.S.C. 9617(e)(1)).					
11	(3) Limitations.—A grant under paragraph (1)					
12	shall be governed by the rules, procedures, and limita-					
13	tions described in section 117(e)(2) of the Comprehen-					
14	sive Environmental Response, Compensation, and Li-					
15	ability Act of 1980 (42 U.S.C. 9617(e)(2)), except					
16	that—					
17	(A) "Administrator of the Environmental					
18	Protection Agency" shall be substituted for					
19	"President" each place it appears in that sec-					
20	tion; and					
21	(B) in the first sentence of that section,					
22	"under section 503 of the American Nuclear In-					
23	frastructure Act of 2020" shall be substituted for					
24	"under this subsection".					

1	(f) Statute of Limitations.—If a remedial action				
2	described in subsection (c)(2) is scheduled at an eligible				
3	non-NPL site, no action may be commenced for damages				
4	(as defined in section 101 of the Comprehensive Environ-				
5	mental Response, Compensation, and Liability Act of 1980				
6	(42 U.S.C. 9601)) with respect to that eligible non-NPL site				
7	unless the action is commenced within the timeframe pro-				
8	vided for such actions with respect to facilities on the Na-				
9	tional Priorities List in the first sentence of the matter fol				
10	lowing subparagraph (B) of section 113(g)(1) of that Act				
11	$(42\ U.S.C.\ 9613(g)(1)).$				
12	(g) Coordination.—The Administrator shall coordi-				
13	nate with the Indian Tribe on whose land the applicable				
14	site is located in—				
15	(1) selecting and prioritizing sites for removal				
16	actions and remedial actions under paragraphs (1)				
17	and (2) of subsection (c); and				
18	(2) carrying out those removal actions and reme-				
19	dial actions.				
20	SEC. 504. NUCLEAR CLOSURE COMMUNITIES.				
21	(a) Definitions.—In this section:				
22	(1) Community advisory board.—The term				
23	"community advisory board" means a community				
24	committee or other advisory organization that aims to				
25	foster communication and information exchange be-				

- tween a licensee planning for and involved in decom missioning activities and members of the community
   that decommissioning activities may affect.
  - (2) Decommission.—The term "decommission" has the meaning given the term in section 50.2 of title 10, Code of Federal Regulations (or successor regulations).
  - (3) ELIGIBLE RECIPIENT.—The term "eligible recipient" has the meaning given the term in section 3 of the Public Works and Economic Development Act of 1965 (42 U.S.C. 3122).
  - (4) LICENSEE.—The term 'licensee' has the meaning given the term in section 50.2 of title 10, Code of Federal Regulations (or successor regulations).
    - (5) Nuclear closure community" means a unit of local government, including a county, city, town, village, school district, or special district that has been impacted, or reasonably demonstrates to the satisfaction of the Secretary, that it will be impacted, by a nuclear power plant licensed by the Commission that has ceased operation or has provided a written notification to the Commission that it will cease operations as of the date of enactment of this Act.

1	(6) Secretary.—The term "Secretary" means				
2	the Secretary of Commerce, acting through the Assist-				
3	ant Secretary of Commerce for Economic Develop				
4	ment.				
5	(b) Establishment.—Not later than 180 days after				
6	the date of enactment of this Act, the Secretary shall estab-				
7	lish a grant program to provide grants to eligible recipi-				
8	ents—				
9	(1) to assist with economic development in nu-				
10	clear closure communities; and				
11	(2) to fund community advisory boards in nu-				
12	clear closure communities.				
13	(c) Requirement.—In carrying out this section, to				
14	the maximum extent practicable, the Secretary shall imple-				
15	ment the recommendations described in the report sub-				
16	mitted to Congress under section 108 of the Nuclear Energy				
17	Innovation and Modernization Act (Public Law 115-439,				
18	132 Stat. 5577) entitled "Best Practices for Establishment				
19	and Operation of Local Community Advisory Boards Asso-				
20	ciated with Decommissioning Activities at Nuclear Power				
21	Plants".				
22	(d) Distribution of Funds.—The Secretary shall es-				
23	tablish a formula to ensure, to the maximum extent prac-				
24	ticable, geographic diversity among grant recipients under				

25 this section.

1	(e) Authorization of Appropriations.—					
2	(1) In general.—There are authorized to be ap-					
3	propriated to the Secretary—					
4	(A) to carry out subsection $(b)(1)$ ,					
5	\$30,000,000 for each of fiscal years 2021 through					
6	2026; and					
7	(B) to carry out subsection $(b)(2)$ ,					
8	\$5,000,000 for each of fiscal years 2021 through					
9	2023.					
10	(2) AVAILABILITY.—Amounts made available					
11	under this section shall remain available for a period					
12	of 5 years beginning on the date on which the					
13	amounts are made available.					
14	(3) No offset.—None of the funds made avail-					
15	able under this section may be used to offset the fund-					
16	ing for any other Federal program.					
17	SEC. 505. REPORT ON CORPORATE SUPPORT.					
18	Not later than 180 days after the date of enactment					
19	of this Act, the Commission shall submit to the appropriate					
20	committees of Congress and make publicly available a re-					
21	port that describes—					
22	(1) the progress on the implementation of section					
23	102(a)(3) of the Nuclear Energy Innovation and Mod-					
24	ernization Act (42 U.S.C. $2215(a)(3)$ ); and					

1	(2) whether the Commission is meeting and is					
2	expected to meet the total budget authority caps re-					
3	quired for corporate support under that section.					
4	SEC. 506. TECHNICAL CORRECTION.					
5	Section 104 c. of the Atomic Energy Act of 1954 (42					
6	U.S.C. 2134(c)) is amended—					
7	(1) by striking the third sentence and inserting					
8	the following:					
9	"(3) Limitation on utilization facilities.—					
10	The Commission may issue a license under this sec-					
11	tion for a utilization facility useful in the conduct of					
12	research and development activities of the types speci-					
13	fied in section 31 if—					
14	"(A) not more than 75 percent of the an-					
15	nual costs to the licensee of owning and oper-					
16	ating the facility are devoted to the sale, other					
17	than for research and development or education					
18	and training, of—					
19	"(i) nonenergy services;					
20	"(ii) energy; or					
21	"(iii) a combination of nonenergy serv-					
22	ices and energy; and					
23	"(B) not more than 50 percent of the an-					
24	nual costs to the licensee of owning and oper-					

1	ating the facility are devoted to the sale of en-
2	ergy.";
3	(2) in the second sentence, by striking "The
4	Commission" and inserting the following:
5	"(2) Regulation.—The Commission"; and
6	(3) by striking "c. The Commission" and insert-
7	ing the following:
8	"c. Research and Development Activities.—
9	"(1) In general.—Subject to paragraphs (2)
10	and (3), the Commission".

## Calendar No. 598

116TH CONGRESS S. 4897

## A BILL

To reestablish United States global leadership in nuclear energy, revitalize domestic nuclear energy supply chain infrastructure, support the licensing of advanced nuclear technologies, and improve the regulation of nuclear energy, and for other purposes.

December 2, 2020

Reported with an amendment