AM	TENDMENT NO Calendar No
Pui	rpose: In the nature of a substitute.
IN '	THE SENATE OF THE UNITED STATES—118th Cong., 1st Sess.
	S. 1111
То	enhance United States civil nuclear leadership, support the licensing of advanced nuclear technologies, strength- en the domestic nuclear energy fuel cycle and supply chain, and improve the regulation of nuclear energy, and for other purposes.
R	eferred to the Committee on and ordered to be printed
	Ordered to lie on the table and to be printed
	MENDMENT IN THE NATURE OF A SUBSTITUTE intended be proposed by Mr. CARPER (for himself and Mrs. CAPITO)
Viz	:
1	Strike all after the enacting clause and insert the fol-
2	lowing:
3	SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
4	(a) Short Title.—This Act may be cited as the
5	"Accelerating Deployment of Versatile, Advanced Nuclean
6	for Clean Energy Act of 2023" or the "ADVANCE Act
7	of 2023".
8	(b) Table of Contents.—The table of contents for
9	this Act is as follows:
	Sec. 1. Short title; table of contents.

Sec. 2. Definitions.

TITLE I—AMERICAN NUCLEAR 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.
- Sec. 104. Coordinated international engagement.

TITLE II—DEVELOPING AND DEPLOYING NEW NUCLEAR TECHNOLOGIES

- Sec. 201. Fees for advanced nuclear reactor application review.
- Sec. 202. Advanced nuclear reactor prizes.
- Sec. 203. Report on unique licensing considerations relating to the use of nuclear energy for nonelectric applications.
- Sec. 204. Enabling preparations for the demonstration of advanced nuclear reactors on Department of Energy sites or critical national security infrastructure sites.
- Sec. 205. Clarification on fusion regulation.
- Sec. 206. Regulatory issues for nuclear facilities at brownfield sites.
- Sec. 207. Appalachian Regional Commission nuclear energy development.

TITLE III—PRESERVING EXISTING NUCLEAR ENERGY GENERATION

- Sec. 301. Investment by allies.
- Sec. 302. Extension of the Price-Anderson Act.

TITLE IV—NUCLEAR FUEL CYCLE, SUPPLY CHAIN, INFRASTRUCTURE, AND WORKFORCE

- Sec. 401. Report on advanced methods of manufacturing and construction for nuclear energy applications.
- Sec. 402. Nuclear energy traineeship.
- Sec. 403. Report on Commission readiness and capacity to license additional conversion and enrichment capacity to reduce reliance on uranium from Russia.
- Sec. 404. Annual report on the spent nuclear fuel and high-level radioactive waste inventory in the United States.
- Sec. 405. Authorization of appropriations for superfund actions at abandoned mining sites on Tribal land.
- Sec. 406. Development, qualification, and licensing of advanced nuclear fuel concepts.

TITLE V—IMPROVING COMMISSION EFFICIENCY

- Sec. 501. Commission workforce.
- Sec. 502. Commission corporate support funding.
- Sec. 503. Performance and reporting update.

TITLE VI—MISCELLANEOUS

- Sec. 601. Nuclear closure communities.
- Sec. 602. Technical correction.
- Sec. 603. Report on engagement with the Government of Canada with respect to nuclear waste issues in the Great Lakes Basin.

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1	SEC 2	DEFIN	ITIONS

1	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; and
14	(B) accident tolerant fuel.
15	(4) ADVANCED NUCLEAR REACTOR.—The term
16	"advanced nuclear reactor" has the meaning given
17	the term in section 3 of the Nuclear Energy Innova-
18	tion and Modernization Act (42 U.S.C. 2215 note;
19	Public Law 115–439).
20	(5) ADVANCED NUCLEAR REACTOR FUEL.—The
21	term "advanced nuclear reactor fuel" has the mean-
22	ing given the term in section 3 of the Nuclear En-
23	ergy Innovation and Modernization Act (42 U.S.C.

2215 note; Public Law 115–439).

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1	(6) Appropriate committees of
2	Congress.—The term "appropriate committees of
3	Congress' 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	(7) Commission.—The term "Commission"
9	means the Nuclear Regulatory Commission.
10	(8) Institution of Higher Education.—The
11	term "institution of higher education" has the
12	meaning given the term in section 101(a) of the
13	Higher Education Act of 1965 (20 U.S.C. 1001(a)).
14	(9) National Laboratory.—The term "Na-
15	tional Laboratory' has the meaning given the term
16	in section 2 of the Energy Policy Act of 2005 (42
17	U.S.C. 15801).
18	TITLE I—AMERICAN NUCLEAR
19	LEADERSHIP
20	SEC. 101. INTERNATIONAL NUCLEAR REACTOR EXPORT
21	AND INNOVATION ACTIVITIES.
22	(a) Coordination.—
23	(1) In General.—The Commission shall—
24	(A) coordinate all work of the Commission
25	relating to—

1	(i) nuclear reactor import and export
2	licensing; and
3	(ii) international regulatory coopera-
4	tion and assistance relating to nuclear re-
5	actors, including with countries that are
6	members of—
7	(I) the Organisation for Eco-
8	nomic Co-operation and Development;
9	or
10	(II) the Nuclear Energy Agency;
11	and
12	(B) support interagency and international
13	coordination with respect to—
14	(i) the consideration of international
15	technical standards to establish the licens-
16	ing and regulatory basis to assist the de-
17	sign, construction, and operation of nu-
18	clear systems;
19	(ii) efforts to help build competent nu-
20	clear regulatory organizations and legal
21	frameworks in countries seeking to develop
22	nuclear power; and
23	(iii) exchange programs and training
24	provided to other countries relating to nu-
25	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 of Energy;
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	(c) Exclusion of International Activities
19	From the Fee Base.—
20	(1) In general.—Section 102 of the Nuclean
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 AD-
6	VANCE Act of 2023."; 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 AD-
12	VANCE Act of 2023.".
13	(2) Effective date.—The amendments made
14	by paragraph (1) shall take effect on October 1,
15	2024
IJ	2024.
16	(d) Savings Clause.—Nothing in this section alters
	(d) SAVINGS CLAUSE.—Nothing in this section alters
16 17	(d) SAVINGS CLAUSE.—Nothing in this section alters
16 17 18	(d) SAVINGS CLAUSE.—Nothing in this section alters the authority of the Commission to license and regulate
16 17	(d) Savings Clause.—Nothing in this section alters the authority of the Commission to license and regulate the civilian use of radioactive materials.
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16 17 18 19 20 21	 (d) Savings Clause.—Nothing in this section alters the authority of the Commission to license and regulate the civilian use of radioactive materials. SEC. 102. DENIAL OF CERTAIN DOMESTIC LICENSES FOR NATIONAL SECURITY PURPOSES.
16 17 18 19 20 21	(d) Savings Clause.—Nothing in this section alters the authority of the Commission to license and regulate the civilian use of radioactive materials. SEC. 102. DENIAL OF CERTAIN DOMESTIC LICENSES FOR NATIONAL SECURITY PURPOSES. (a) DEFINITION OF COVERED FUEL.—In this section, the term "covered fuel" means enriched uranium

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	fuel.
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 of En-
24	ergy and the Secretary of State before issuing the li-
25	cense.

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

1	and the Secretary of State of the ap-
2	plication.
3	(II) DETERMINATION.—The Sec-
4	retary of Energy and the Secretary of
5	State shall have a period of 180 days,
6	beginning on the date on which the
7	Commission notifies the Secretary of
8	Energy and the Secretary of State
9	under subclause (I) of an application
10	for a license to possess or own covered
11	fuel, in which to make the determina-
12	tion described in clause (i).
13	(III) COMMISSION NOTIFICA-
14	TION.—On making the determination
15	described in clause (i), the Secretary
16	of Energy and the Secretary of State
17	shall immediately notify the Commis-
18	sion.
19	(IV) Congressional notifica-
20	TION.—Not later than 30 days after
21	the date on which the Secretary of
22	Energy and the Secretary of State no-
23	tify the Commission under subclause
24	(III), the Commission shall notify the

1	appropriate committees of Congress of
2	the determination.
3	(V) Public notice.—Not later
4	than 15 days after the date on which
5	the Commission notifies Congress
6	under subclause (IV) of a determina-
7	tion made under clause (i), the Com-
8	mission shall make that determination
9	publicly available.
10	(C) EFFECT OF NO DETERMINATION.—
11	The prohibition described in subparagraph (A)
12	shall not apply if the Secretary of Energy and
13	the Secretary of State do not make the deter-
14	mination described in subparagraph (B) by the
15	date described in clause (iii)(II) of that sub-
16	paragraph.
17	(d) Savings Clause.—Nothing in this section alters
18	any treaty or international agreement in effect on the date
19	of enactment of this Act.
20	SEC. 103. EXPORT LICENSE REQUIREMENTS.
21	(a) Definition of Low-Enriched Uranium.—In
22	this section, the term "low-enriched uranium" means ura-
23	nium enriched to less than 20 percent of the uranium-
24	235 isotope.

1	(b) REQUIREMENT.—The Commission shall not issue
2	an export license for the transfer of any item described
3	in subsection (d) to a country described in subsection (c)
4	unless the Commission makes a determination that such
5	transfer will not be inimical to the common defense and
6	security of the United States.
7	(c) Countries Described.—A country referred to
8	in subsection (b) is a country that—
9	(1) has not concluded and ratified an Addi-
10	tional Protocol to its safeguards agreement with the
11	International Atomic Energy Agency; or
12	(2) has not ratified or acceded to the amend-
13	ment to the Convention on the Physical Protection
14	of Nuclear Material, adopted at Vienna October 26,
15	1979, and opened for signature at New York March
16	3, 1980 (TIAS 11080), described in the information
17	circular of the International Atomic Energy Agency
18	numbered INFCIRC/274/Rev.1/Mod.1 and dated
19	May 9, 2016 (TIAS 16–508).
20	(d) Items Described.—An item referred to in sub-
21	section (b) includes—
22	(1) unirradiated nuclear fuel containing special
23	nuclear material (as defined in section 11 of the
24	Atomic Energy Act of 1954 (42 U.S.C. 2014)), ex-
25	cluding low-enriched uranium;

1	(2) a nuclear reactor that uses nuclear fuel de-
2	scribed in paragraph (1); and
3	(3) any plant or component listed in Appendix
4	I to part 110 of title 10, Code of Federal Regula-
5	tions (or successor regulations), that is involved in—
6	(A) the reprocessing of irradiated nuclear
7	reactor fuel elements;
8	(B) the separation of plutonium; or
9	(C) the separation of the uranium-233 iso-
10	tope.
11	(e) Notification.—If the Commission makes a de-
12	termination under subsection (b) that the transfer of any
13	item described in subsection (d) to a country described in
14	subsection (c) will not be inimical to the common defense
15	and security of the United States, the Commission shall
16	notify the appropriate committees of Congress.
17	SEC. 104. COORDINATED INTERNATIONAL ENGAGEMENT.
18	(a) Definitions.—In this section:
19	(1) Embarking civil nuclear nation.—
20	(A) In General.—The term "embarking
21	civil nuclear nation" means a country that—
22	(i) does not have a civil nuclear pro-
23	gram;
24	(ii) is in the process of developing or
25	expanding a civil nuclear program, includ-

1	ing safeguards and a legal and regulatory
2	framework; or
3	(iii) is in the process of selecting, de-
4	veloping, constructing, or utilizing an ad-
5	vanced nuclear reactor or advanced civil
6	nuclear technologies.
7	(B) Exclusions.—The term "embarking
8	civil nuclear nation" does not include—
9	(i) the People's Republic of China;
10	(ii) the Russian Federation;
11	(iii) the Republic of Belarus;
12	(iv) the Islamic Republic of Iran;
13	(v) the Democratic People's Republic
14	of Korea;
15	(vi) the Republic of Cuba;
16	(vii) the Bolivarian Republic of Ven-
17	ezuela;
18	(viii) the Syrian Arab Republic;
19	(ix) Burma; or
20	(x) any other country—
21	(I) the property or interests in
22	property of the government of which
23	are blocked pursuant to the Inter-
24	national Emergency Economic Powers
25	Act (50 U.S.C. 1701 et seq.); or

1	(II) the government of which the
2	Secretary of State has determined has
3	repeatedly provided support for acts
4	of international terrorism for purposes
5	of—
6	(aa) section 620A(a) of the
7	Foreign Assistance Act of 1961
8	(22 U.S.C. 2371(a));
9	(bb) section 40(d) of the
10	Arms Export Control Act (22
11	U.S.C. 2780(d));
12	(cc) section $1754(c)(1)(A)(i)$
13	of the Export Control Reform
14	Act of 2018 (50 U.S.C.
15	4813(e)(1)(A)(i)); or
16	(dd) any other relevant pro-
17	vision of law.
18	(2) Secretaries.—The term "Secretaries"
19	means the Secretary of Commerce and the Secretary
20	of Energy, acting—
21	(A) in consultation with each other; and
22	(B) in coordination with—
23	(i) the Secretary of State;
24	(ii) the Commission;
25	(iii) the Secretary of the Treasury;

1	(iv) the President of the Export-Im-
2	port Bank of the United States; and
3	(v) officials of other Federal agencies,
4	as the Secretary of Commerce determines
5	to be appropriate.
6	(3) U.S. NUCLEAR ENERGY COMPANY.—The
7	term "U.S. nuclear energy company" means a com-
8	pany that—
9	(A) is organized under the laws of, or oth-
10	erwise subject to the jurisdiction of, the United
11	States; and
12	(B) is involved in the nuclear energy indus-
13	try.
14	(b) International Civil Nuclear Moderniza-
15	TION INITIATIVE.—
16	(1) In general.—The Secretaries shall estab-
17	lish and carry out, in accordance with applicable nu-
18	clear technology export laws (including regulations),
19	an international initiative to modernize civil nuclear
20	outreach to embarking civil nuclear nations.
21	(2) Activities.—In carrying out the initiative
22	described in paragraph (1)—
23	(A) the Secretary of Commerce shall—
24	(i) expand outreach by the Executive
25	Branch to the private investment commu-

1	nity to create public-private financing rela-
2	tionships to assist in the export of civil nu-
3	clear technology to embarking civil nuclear
4	nations;
5	(ii) seek to coordinate, to the max-
6	imum extent practicable, the work carried
7	out by each of—
8	(I) the Commission;
9	(II) the Department of Energy;
10	(III) the Department of State;
11	(IV) the Nuclear Energy Agency;
12	(V) the International Atomic En-
13	ergy Agency; and
14	(VI) other agencies, as the Sec-
15	retary of Commerce determines to be
16	appropriate; and
17	(iii) improve the regulatory framework
18	to allow for the efficient and expeditious
19	exporting and importing of items under the
20	jurisdiction of the Secretary of Commerce;
21	and
22	(B) the Secretary of Energy shall—
23	(i) assist nongovernmental organiza-
24	tions and appropriate offices, administra-
25	tions, agencies, laboratories, and programs

1	of the Federal Government in providing
2	education and training to foreign govern-
3	ments in nuclear safety, security, and safe-
4	guards—
5	(I) through engagement with the
6	International Atomic Energy Agency
7	or
8	(II) independently, if the applica-
9	ble nongovernmental organization, of
10	fice, administration, agency, labora-
11	tory, or program determines that is
12	would be more advantageous under
13	the circumstances to provide the ap-
14	plicable education and training inde-
15	pendently;
16	(ii) assist the efforts of the Inter-
17	national Atomic Energy Agency to expand
18	the support provided by the International
19	Atomic Energy Agency to embarking civi
20	nuclear nations for nuclear safety, security
21	and safeguards; and
22	(iii) assist U.S. nuclear energy compa
23	nies to integrate security and safeguards
24	by design in international outreach carried

1	out by those U.S. nuclear energy compa-
2	nies.
3	(c) Report.—Not later than 2 years after the date
4	of enactment of this Act, the Secretary of Commerce, in
5	consultation with the Secretary of Energy, shall submit
6	to Congress a report describing the activities carried out
7	under this section.
8	TITLE II—DEVELOPING AND DE-
9	PLOYING NEW NUCLEAR
10	TECHNOLOGIES
11	SEC. 201. FEES FOR ADVANCED NUCLEAR REACTOR APPLI-
12	CATION REVIEW.
13	(a) Definitions.—Section 3 of the Nuclear Energy
14	Innovation and Modernization Act (42 U.S.C. 2215 note;
15	Public Law 115–439) is amended—
16	(1) by redesignating paragraphs (2) through
17	(15) as paragraphs (3), (6), (7), (8), (9), (10), (12),
18	(15), (16), (17), (18), (19), (20), and (21), respec-
19	tively;
20	(2) by inserting after paragraph (1) the fol-
21	lowing:
22	"(2) Advanced nuclear reactor appli-
23	CANT.—The term 'advanced nuclear reactor appli-
24	cant' means an entity that has submitted to the
25	Commission an application to receive a license for an

1 advanced nuclear reactor under the Atomic Energy 2 Act of 1954 (42 U.S.C. 2011 et seq.)."; 3 (3) by inserting after paragraph (3) (as so re-4 designated) the following: 5 "(4) Advanced nuclear reactor pre-appli-6 CANT.—The term 'advanced nuclear reactor pre-ap-7 plicant' means an entity that has submitted to the 8 Commission a licensing project plan for the purposes 9 of submitting a future application to receive a li-10 cense for an advanced nuclear reactor under the 11 Atomic Energy Act of 1954 (42 U.S.C. 2011 et 12 seq.). 13 "(5) AGENCY SUPPORT.—The term 'agency 14 support' means the resources of the Commission 15 that are located in executive, administrative, and 16 other support offices of the Commission, as de-17 scribed in the document of the Commission entitled 18 'FY 2022 Final Fee Rule Work Papers' (or a suc-19 cessor document)."; 20 (4) by inserting after paragraph (10) (as so re-21 designated) the following: 22 "(11) Hourly rate for mission-direct pro-23 GRAM SALARIES AND BENEFITS FOR THE NUCLEAR 24 REACTOR SAFETY PROGRAM.—The term 'hourly rate 25 for mission-direct program salaries and benefits for

1	the Nuclear Reactor Safety Program' means the
2	quotient obtained by dividing—
3	"(A) the full-time equivalent rate (within
4	the meaning of the document of the Commis-
5	sion entitled 'FY 2022 Final Fee Rule Work
6	Papers' (or a successor document)) for mission-
7	direct program salaries and benefits for the Nu-
8	clear Reactor Safety Program (as determined
9	by the Commission) for a fiscal year; by
10	"(B) the productive hours assumption for
11	that fiscal year, determined in accordance with
12	the formula established in the document re-
13	ferred to in subparagraph (A) (or a successor
14	document)."; and
15	(5) by inserting after paragraph (12) (as so re-
16	designated) the following:
17	"(13) Mission-direct program salaries
18	AND BENEFITS FOR THE NUCLEAR REACTOR SAFETY
19	PROGRAM.—The term 'mission-direct program sala-
20	ries and benefits for the Nuclear Reactor Safety
21	Program' means the resources of the Commission
22	that are allocated to the Nuclear Reactor Safety
23	Program (as determined by the Commission) to per-
24	form core work activities committed to fulfilling the
25	mission of the Commission, as described in the docu-

1	ment of the Commission entitled 'FY 2022 Final
2	Fee Rule Work Papers' (or a successor document).
3	"(14) Mission-indirect program support.—
4	The term 'mission-indirect program support' means
5	the resources of the Commission that support the
6	core mission-direct activities for the Nuclear Reactor
7	Safety Program of the Commission (as determined
8	by the Commission), as described in the document of
9	the Commission entitled 'FY 2022 Final Fee Rule
10	Work Papers' (or a successor document).".
11	(b) Excluded Activities.—Section 102(b)(1)(B)
12	of the Nuclear Energy Innovation and Modernization Act
13	(42 U.S.C. 2215(b)(1)(B)) (as amended by section
14	101(c)(1)(B)) is amended by adding at the end the fol-
15	lowing:
16	"(v) The total costs of mission-indi-
17	rect program support and agency support
18	that, under paragraph (2)(B), may not be
19	included in the hourly rate charged for fees
20	assessed to advanced nuclear reactor appli-
21	cants.
22	"(vi) The total costs of mission-indi-
23	rect program support and agency support
24	that, under paragraph (2)(C), may not be
25	included in the hourly rate charged for fees

1	assessed to advanced nuclear reactor pre-
2	applicants.".
3	(c) Fees for Service or Thing of Value.—Sec-
4	tion 102(b) of the Nuclear Energy Innovation and Mod-
5	ernization Act (42 U.S.C. 2215(b)) is amended by striking
6	paragraph (2) and inserting the following:
7	"(2) Fees for service or thing of
8	VALUE.—
9	"(A) In General.—In accordance with
10	section 9701 of title 31, United States Code,
11	the Commission shall assess and collect fees
12	from any person who receives a service or thing
13	of value from the Commission to cover the costs
14	to the Commission of providing the service or
15	thing of value.
16	"(B) ADVANCED NUCLEAR REACTOR AP-
17	PLICANTS.—The hourly rate charged for fees
18	assessed to advanced nuclear reactor applicants
19	under this paragraph relating to the review of
20	a submitted application described in section
21	3(1) shall not exceed the hourly rate for mis-
22	sion-direct program salaries and benefits for the
23	Nuclear Reactor Safety Program.
24	"(C) Advanced nuclear reactor pre-
25	APPLICANTS.—The hourly rate charged for fees

1	assessed to advanced nuclear reactor pre-appli-
2	cants under this paragraph relating to the re-
3	view of submitted materials as described in the
4	licensing project plan of an advanced nuclear
5	reactor pre-applicant shall not exceed the hour-
6	ly rate for mission-direct program salaries and
7	benefits for the Nuclear Reactor Safety Pro-
8	gram.".
9	(d) Sunset.—Section 102 of the Nuclear Energy In-
10	novation and Modernization Act (42 U.S.C. 2215) is
11	amended by adding at the end the following:
12	"(g) Cessation of Effectiveness.—Paragraphs
13	(1)(B)(vi) and (2)(C) of subsection (b) shall cease to be
14	effective on September 30, 2029.".
15	(e) Effective Date.—The amendments made by
16	this section shall take effect on October 1, 2024.
17	SEC. 202. ADVANCED NUCLEAR REACTOR PRIZES.
18	Section 103 of the Nuclear Energy Innovation and
19	Modernization Act (Public Law 115–439; 132 Stat. 5571)
20	is amended by adding at the end the following:
21	"(f) Prizes for Advanced Nuclear Reactor Li-
22	CENSING.—
23	"(1) Definition of Eligible entity.—In
24	this subsection, the term 'eligible entity' means—
25	"(A) a non-Federal entity; and

1	"(B) the Tennessee Valley Authority.
2	"(2) Prize for advanced nuclear reactor
3	LICENSING.—
4	"(A) IN GENERAL.—Notwithstanding sec-
5	tion 169 of the Atomic Energy Act of 1954 (42
6	U.S.C. 2209) and subject to the availability of
7	appropriations, the Secretary is authorized to
8	make, with respect to each award category de-
9	scribed in subparagraph (C), an award in an
10	amount described in subparagraph (B) to the
11	first eligible entity—
12	"(i) to which the Commission issues
13	an operating license for an advanced nu-
14	clear reactor under part 50 of title 10
15	Code of Federal Regulations (or successor
16	regulations), for which an application has
17	not been approved by the Commission as
18	of the date of enactment of this subsection
19	or
20	"(ii) for which the Commission makes
21	a finding described in section 52.103(g) of
22	title 10, Code of Federal Regulations (or
23	successor regulations), with respect to a
24	combined license for an advanced nuclear
25	reactor—

1	"(I) that is issued under subpart
2	C of part 52 of that title (or successor
3	regulations); and
4	"(II) for which an application
5	has not been approved by the Com-
6	mission as of the date of enactment or
7	this subsection.
8	"(B) Amount of Award.—An award
9	under subparagraph (A) shall be in an amount
10	equal to the total amount assessed by the Com-
11	mission and collected under section 102(b)(2)
12	from the eligible entity receiving the award for
13	costs relating to the issuance of the license de-
14	scribed in that subparagraph, including, as ap-
15	plicable, costs relating to the issuance of an as-
16	sociated construction permit described in sec-
17	tion 50.23 of title 10, Code of Federal Regula-
18	tions (or successor regulations), or early site
19	permit (as defined in section 52.1 of that title
20	(or successor regulations)).
21	"(C) Award categories.—An award
22	under subparagraph (A) may be made for—
23	"(i) the first advanced nuclear reactor
24	for which the Commission—

1	"(I) issues a license in accord-
2	ance with clause (i) of subparagraph
3	(A); or
4	"(II) makes a finding in accord-
5	ance with clause (ii) of that subpara-
6	graph;
7	"(ii) an advanced nuclear reactor
8	that—
9	"(I) uses isotopes derived from
10	spent nuclear fuel (as defined in sec-
11	tion 2 of the Nuclear Waste Policy
12	Act of 1982 (42 U.S.C. 10101)) or
13	depleted uranium as fuel for the ad-
14	vanced nuclear reactor; and
15	"(II) is the first advanced nu-
16	clear reactor described in subclause
17	(I) for which the Commission—
18	"(aa) issues a license in ac-
19	cordance with clause (i) of sub-
20	paragraph (A); or
21	"(bb) makes a finding in ac-
22	cordance with clause (ii) of that
23	subparagraph;
24	"(iii) an advanced nuclear reactor
25	that—

28

1	"(I) is a nuclear integrated en-
2	ergy system—
3	"(aa) that is composed of 2
4	or more co-located or jointly op-
5	erated subsystems of energy gen-
6	eration, energy storage, or other
7	technologies;
8	"(bb) in which not fewer
9	than 1 subsystem described in
10	item (aa) is a nuclear energy sys-
11	tem; and
12	"(cc) the purpose of which
13	is—
14	"(AA) to reduce green-
15	house gas emissions in both
16	the power and nonpower sec-
17	tors; and
18	"(BB) to maximize en-
19	ergy production and effi-
20	ciency; and
21	"(II) is the first advanced nu-
22	clear reactor described in subclause
23	(I) for which the Commission—

1	"(aa) issues a license in ac-
2	cordance with clause (i) of sub-
3	paragraph (A); or
4	"(bb) makes a finding in ac-
5	cordance with clause (ii) of that
6	subparagraph;
7	"(iv) an advanced reactor that—
8	"(I) operates flexibly to generate
9	electricity or high temperature process
10	heat for nonelectric applications; and
11	"(II) is the first advanced nu-
12	clear reactor described in subclause
13	(I) for which the Commission—
14	"(aa) issues a license in ac-
15	cordance with clause (i) of sub-
16	paragraph (A); or
17	"(bb) makes a finding in ac-
18	cordance with clause (ii) of that
19	subparagraph; and
20	"(v) the first advanced nuclear reactor
21	for which the Commission grants approval
22	to load nuclear fuel pursuant to the tech-
23	nology-inclusive regulatory framework es-
24	tablished under subsection (a)(4).
25	"(3) Federal funding limitations.—

1	"(A) Exclusion of tva funds.—In this
2	paragraph, the term 'Federal funds' does not
3	include funds received under the power program
4	of the Tennessee Valley Authority.
5	"(B) Limitation on amounts ex-
6	PENDED.—An award under this subsection
7	shall not exceed the total amount expended (ex-
8	cluding any expenditures made with Federal
9	funds received for the applicable project and an
10	amount equal to the minimum cost-share re-
11	quired under section 988 of the Energy Policy
12	Act of 2005 (42 U.S.C. 16352)) by the eligible
13	entity receiving the award for licensing costs re-
14	lating to the project for which the award is
15	made.
16	"(C) Repayment and dividends not
17	REQUIRED.—Notwithstanding section
18	9104(a)(4) of title 31, United States Code, or
19	any other provision of law, an eligible entity
20	that receives an award under this subsection
21	shall not be required—
22	"(i) to repay that award or any part
23	of that award; or

1	"(ii) to pay a dividend, interest, or
2	other similar payment based on the sum of
3	that award.".
4	SEC. 203. REPORT ON UNIQUE LICENSING CONSIDER-
5	ATIONS RELATING TO THE USE OF NUCLEAR
6	ENERGY FOR NONELECTRIC APPLICATIONS.
7	(a) In General.—Not later than 270 days after the
8	date of enactment of this Act, the Commission shall sub-
9	mit to the appropriate committees of Congress a report
10	(referred to in this section as the "report") addressing any
11	unique licensing issues or requirements relating to—
12	(1) the flexible operation of nuclear reactors,
13	such as ramping power output and switching be-
14	tween electricity generation and nonelectric applica-
15	tions;
16	(2) the use of advanced nuclear reactors exclu-
17	sively for nonelectric applications; and
18	(3) the colocation of nuclear reactors with in-
19	dustrial plants or other facilities.
20	(b) STAKEHOLDER INPUT.—In developing the report,
21	the Commission shall seek input from—
22	(1) the Secretary of Energy;
23	(2) the nuclear energy industry;
24	(3) technology developers;

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

1	(B) options for addressing those issues or
2	requirements—
3	(i) within the existing regulatory
4	framework of the Commission;
5	(ii) as part of the technology-inclusive
6	regulatory framework required under sub-
7	section (a)(4) of section 103 of the Nuclear
8	Energy Innovation and Modernization Act
9	(42 U.S.C. 2133 note; Public Law 115–
10	439) or described in the report required
11	under subsection (e) of that section (Public
12	Law 115–439; 132 Stat. 5575); or
13	(iii) through a new rulemaking; and
14	(C) the extent to which Commission action
15	is needed to implement any matter described in
16	the report.
17	(2) Cost estimates, budgets, and time-
18	FRAMES.—The report shall include cost estimates,
19	proposed budgets, and proposed timeframes for im-
20	plementing risk-informed and performance-based
21	regulatory guidance in the licensing of nuclear reac-
22	tors for nonelectric applications.

1	SEC. 204. ENABLING PREPARATIONS FOR THE DEMONSTRA
2	TION OF ADVANCED NUCLEAR REACTORS ON
3	DEPARTMENT OF ENERGY SITES OR CRIT-
4	ICAL NATIONAL SECURITY INFRASTRUCTURE
5	SITES.
6	(a) In General.—Section 102(b)(1)(B) of the Nu-
7	clear Energy Innovation and Modernization Act (42
8	U.S.C. 2215(b)(1)(B)) (as amended by section 201(b)) is
9	amended by adding at the end the following:
10	"(vi) Costs for—
11	"(I) activities to review and ap-
12	prove or disapprove an application for
13	an early site permit (as defined in sec-
14	tion 52.1 of title 10, Code of Federal
15	Regulations (or a successor regula-
16	tion)) to demonstrate an advanced nu-
17	clear reactor on a Department of En-
18	ergy site or critical national security
19	infrastructure (as defined in section
20	327(d) of the John S. McCain Na-
21	tional Defense Authorization Act for
22	Fiscal Year 2019 (Public Law 115-
23	232; 132 Stat. 1722)) site; and
24	"(II) pre-application activities re-
25	lating to an early site permit (as de-
26	fined in section 52.1 of title 10, Code

1	of Federal Regulations (or a successor
2	regulation)) to demonstrate an ad-
3	vanced nuclear reactor on a Depart-
4	ment of Energy site or critical na-
5	tional security infrastructure (as de-
6	fined in section 327(d) of the John S
7	McCain National Defense Authoriza-
8	tion Act for Fiscal Year 2019 (Public
9	Law 115–232; 132 Stat. 1722)
10	site.".
11	(b) Effective Date.—The amendment made by
12	subsection (a) shall take effect on October 1, 2024.
13	SEC. 205. CLARIFICATION ON FUSION REGULATION.
14	Section 103(a)(4) of the Nuclear Energy Innovation
15	and Modernization Act (42 U.S.C. 2133 note; Public Law
16	115–439) is amended—
17	(1) by striking "Not later" and inserting the
18	following:
19	"(A) IN GENERAL.—Not later"; and
20	(2) by adding at the end the following:
21	"(B) Exclusion of fusion reactors.—
22	For purposes of subparagraph (A), the term
23	'advanced reactor applicant' does not include an
24	applicant seeking a license for a fusion reac-
25	tor.".

1	SEC. 206. REGULATORY ISSUES FOR NUCLEAR FACILITIES
2	AT BROWNFIELD SITES.
3	(a) Definitions.—
4	(1) Brownfield site.—The term "brownfield
5	site" has the meaning given the term in section 101
6	of the Comprehensive Environmental Response,
7	Compensation, and Liability Act of 1980 (42 U.S.C.
8	9601).
9	(2) PRODUCTION FACILITY.—The term "pro-
10	duction facility" has the meaning given the term in
11	section 11 of the Atomic Energy Act of 1954 (42
12	U.S.C. 2014).
13	(3) Retired fossil fuel site.—The term
14	"retired fossil fuel site" means the site of 1 or more
15	fossil fuel electric generation facilities that are re-
16	tired or scheduled to retire, including multi-unit fa-
17	cilities that are partially shut down.
18	(4) Utilization facility.—The term "utiliza-
19	tion facility" has the meaning given the term in sec-
20	tion 11 of the Atomic Energy Act of 1954 (42
21	U.S.C. 2014).
22	(b) Identification of Regulatory Issues.—
23	(1) In general.—Not later than 1 year after
24	the date of enactment of this Act, the Commission

shall evaluate the extent to which modification of

regulations, guidance, or policy is needed to enable

25

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1	timely licensing reviews for, and to support the over-
2	sight of, production facilities or utilization facilities
3	at brownfield sites.
4	(2) Requirement.—In carrying out paragraph
5	(1), the Commission shall consider how licensing re-
6	views for production facilities or utilization facilities
7	at brownfield sites may be expedited by considering
8	matters relating to siting and operating a production
9	facility or a utilization facility at or near a retired
10	fossil fuel site to support—
11	(A) the reuse of existing site infrastruc-
12	ture, including—
13	(i) electric switchyard components and
14	transmission infrastructure;
15	(ii) heat-sink components;
16	(iii) steam cycle components;
17	(iv) roads;
18	(v) railroad access; and
19	(vi) water availability;
20	(B) the use of early site permits;
21	(C) the utilization of plant parameter enve-
22	lopes or similar standardized site parameters on
23	a portion of a larger site; and
24	(D) the use of a standardized application
25	for similar sites.

1	(3) Report.—Not later than 14 months after
2	the date of enactment of this Act, the Commission
3	shall submit to the appropriate committees of Con-
4	gress a report describing any regulations, guidance,
5	and policies identified under paragraph (1).
6	(c) Licensing.—
7	(1) In general.—Not later than 2 years after
8	the date of enactment of this Act, the Commission
9	shall—
10	(A) develop and implement strategies to
11	enable timely licensing reviews for, and to sup-
12	port the oversight of, production facilities or
13	utilization facilities at brownfield sites, includ-
14	ing retired fossil fuel sites; or
15	(B) initiate a rulemaking to enable timely
16	licensing reviews for, and to support the over-
17	sight of, of production facilities or utilization
18	facilities at brownfield sites, including retired
19	fossil fuel sites.
20	(2) Requirements.—In carrying out para-
21	graph (1), consistent with the mission of the Com-
22	mission, the Commission shall consider matters re-
23	lating to—
24	(A) the use of existing site infrastructure;

1	(B) existing emergency preparedness orga-
2	nizations and planning;
3	(C) the availability of historical site-spe-
4	cific environmental data;
5	(D) previously approved environmental re-
6	views required by the National Environmental
7	Policy Act of 1969 (42 U.S.C. 4321 et seq.);
8	(E) activities associated with the potential
9	decommissioning of facilities or decontamina-
10	tion and remediation at brownfield sites; and
11	(F) community engagement and historical
12	experience with energy production.
13	(d) REPORT.—Not later than 3 years after the date
14	of enactment of this Act, the Commission shall submit to
15	the appropriate committees of Congress a report describ-
16	ing the actions taken by the Commission under subsection
17	(c).
18	SEC. 207. APPALACHIAN REGIONAL COMMISSION NUCLEAR
19	ENERGY DEVELOPMENT.
20	(a) In General.—Subchapter I of chapter 145 of
21	subtitle IV of title 40, United States Code, is amended
22	by adding at the end the following:
23	"§ 14512. Appalachian Regional Commission nuclear
24	energy development
25	"(a) Definitions.—In this section:

1	"(1) Brownfield site.—The term 'brownfield
2	site' has the meaning given the term in section 101
3	of the Comprehensive Environmental Response
4	Compensation, and Liability Act of 1980 (42 U.S.C.
5	9601).
6	"(2) Production facility.—The term 'pro-
7	duction facility' has the meaning given the term in
8	section 11 of the Atomic Energy Act of 1954 (42
9	U.S.C. 2014).
10	"(3) Retired fossil fuel site.—The term
11	'retired fossil fuel site' means the site of 1 or more
12	fossil fuel electric generation facilities that are re-
13	tired or scheduled to retire, including multi-unit fa-
14	cilities that are partially shut down.
15	"(4) Utilization facility.—The term 'utili-
16	zation facility' has the meaning given the term in
17	section 11 of the Atomic Energy Act of 1954 (42
18	U.S.C. 2014).
19	"(b) Authority.—The Appalachian Regional Com-
20	mission may provide technical assistance to, make grants
21	to, enter into contracts with, or otherwise provide amounts
22	to individuals or entities in the Appalachian region for
23	projects and activities—
24	"(1) to conduct research and analysis regarding
25	the economic impact of siting, constructing, and op-

1	erating a production facility or a utilization facility
2	at a brownfield site, including a retired fossil fuel
3	site;
4	"(2) to assist with workforce training or re-
5	training to perform activities relating to the siting
6	and operation of a production facility or a utilization
7	facility at a brownfield site, including a retired fossil
8	fuel site; and
9	"(3) to engage with the Nuclear Regulatory
10	Commission, the Department of Energy, and other
11	Federal agencies with expertise in civil nuclear en-
12	ergy.
13	"(c) Limitation on Available Amounts.—Of the
14	cost of any project or activity eligible for a grant under
15	this section—
16	"(1) except as provided in paragraphs (2) and
17	(3), not more than 50 percent may be provided from
18	amounts made available to carry out this section;
19	"(2) in the case of a project or activity to be
20	carried out in a county for which a distressed county
21	designation is in effect under section 14526, not
22	more than 80 percent may be provided from
	more than or percent may be provided from
23	amounts made available to carry out this section;

1	"(3) in the case of a project or activity to be
2	carried out in a county for which an at-risk county
3	designation is in effect under section 14526, not
4	more than 70 percent may be provided from
5	amounts made available to carry out this section.
6	"(d) Sources of Assistance.—Subject to sub-
7	section (c), a grant provided under this section may be
8	provided from amounts made available to carry out this
9	section, in combination with amounts made available—
10	"(1) under any other Federal program; or
11	"(2) from any other source.
12	"(e) Federal Share.—Notwithstanding any provi-
13	sion of law limiting the Federal share under any other
14	Federal program, amounts made available to carry out
15	this section may be used to increase that Federal share,
16	as the Appalachian Regional Commission determines to be
17	appropriate.".
18	(b) Authorization of Appropriations.—Section
19	14703 of title 40, United States Code, is amended—
20	(1) by redesignating subsections (e) and (f) as
21	subsections (f) and (g), respectively; and
22	(2) by inserting after subsection (d) the fol-
23	lowing:
24	"(e) Appalachian Regional Commission Nu-
25	CLEAR ENERGY DEVELOPMENT.—Of the amounts made

- 1 available under subsection (a), \$5,000,000 may be used
- 2 to carry out section 14512 for each of fiscal years 2023
- 3 through 2026.".
- 4 (c) CLERICAL AMENDMENT.—The analysis for sub-
- 5 chapter I of chapter 145 of subtitle IV of title 40, United
- 6 States Code, is amended by striking the item relating to
- 7 section 14511 and inserting the following:
 - "14511. Appalachian regional energy hub initiative.
 - "14512. Appalachian Regional Commission nuclear energy development.".

8 TITLE III—PRESERVING EXIST-

9 ING NUCLEAR ENERGY GEN-

10 **ERATION**

- 11 SEC. 301. INVESTMENT BY ALLIES.
- 12 (a) In General.—The prohibitions against issuing
- 13 certain licenses for utilization facilities to certain corpora-
- 14 tions and other entities described in the second sentence
- 15 of section 103 d. of the Atomic Energy Act of 1954 (42
- 16 U.S.C. 2133(d)) and the second sentence of section 104
- 17 d. of that Act (42 U.S.C. 2134(d)) shall not apply to an
- 18 entity described in subsection (b) if the Commission deter-
- 19 mines that issuance of the applicable license to that entity
- 20 is not inimical to—
- 21 (1) the common defense and security; or
- (2) the health and safety of the public.
- 23 (b) Entities Described.—

1	(1) In general.—An entity referred to in sub-
2	section (a) is a corporation or other entity that is
3	owned, controlled, or dominated by—
4	(A) the government of—
5	(i) a country that is a member of the
6	Organisation for Economic Co-operation
7	and Development on the date of enactment
8	of this Act, subject to paragraph (2); or
9	(ii) the Republic of India;
10	(B) a corporation that is incorporated in a
11	country described in clause (i) or (ii) of sub-
12	paragraph (A); or
13	(C) an alien who is a national of a country
14	described in clause (i) or (ii) of subparagraph
15	(A).
16	(2) Exclusion.—An entity described in para-
17	graph (1)(A)(i) is not an entity referred to in sub-
18	section (a), and subsection (a) shall not apply to
19	that entity, if—
20	(A) the entity (or any department, agency,
21	or instrumentality of the entity) is a person
22	subject to sanctions under section 231 of the
23	Countering America's Adversaries Through
24	Sanctions Act (22 U.S.C. 9525); or

- 1 (B) any citizen of the entity, or any entity
- 2 organized under the laws of, or otherwise sub-
- 3 ject to the jurisdiction of, the entity, is a person
- 4 subject to sanctions under that section.
- 5 (c) TECHNICAL AMENDMENT.—Section 103 d. of the
- 6 Atomic Energy Act of 1954 (42 U.S.C. 2133(d)) is
- 7 amended, in the second sentence, by striking "any any"
- 8 and inserting "any".
- 9 (d) Savings Clause.—Nothing in this section af-
- 10 fects the requirements of section 721 of the Defense Pro-
- 11 duction Act of 1950 (50 U.S.C. 4565).
- 12 SEC. 302. EXTENSION OF THE PRICE-ANDERSON ACT.
- 13 (a) Extension.—Section 170 of the Atomic Energy
- 14 Act of 1954 (42 U.S.C. 2210) (commonly known as the
- 15 "Price-Anderson Act") is amended by striking "December
- 16 31, 2025" each place it appears and inserting "December
- 17 31, 2045".
- 18 (b) Report.—Section 170 p. of the Atomic Energy
- 19 Act of 1954 (42 U.S.C. 2210(p)) (commonly known as the
- 20 "Price-Anderson Act") is amended by striking "December
- 21 31, 2021" and inserting "December 31, 2041".

1	TITLE IV—NUCLEAR FUEL
2	CYCLE, SUPPLY CHAIN, IN-
3	FRASTRUCTURE, AND WORK-
4	FORCE
5	SEC. 401. REPORT ON ADVANCED METHODS OF MANUFAC-
6	TURING AND CONSTRUCTION FOR NUCLEAR
7	ENERGY APPLICATIONS.
8	(a) In General.—Not later than 180 days after the
9	date of enactment of this Act, the Commission shall sub-
10	mit to the appropriate committees of Congress a report
11	(referred to in this section as the "report") on manufac-
12	turing and construction for nuclear energy applications.
13	(b) STAKEHOLDER INPUT.—In developing the report,
14	the Commission shall seek input from—
15	(1) the Secretary of Energy;
16	(2) the nuclear energy industry;
17	(3) National Laboratories;
18	(4) institutions of higher education;
19	(5) nuclear and manufacturing technology de-
20	velopers;
21	(6) the manufacturing and construction indus-
22	tries, including manufacturing and construction
23	companies with operating facilities in the United
24	States;
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	(ii) advanced construction techniques;
10	and
11	(iii) rapid improvement or iterative in-
12	novation processes;
13	(B) examine—
14	(i) the requirements for nuclear-grade
15	components in manufacturing and con-
16	struction for nuclear energy applications;
17	(ii) opportunities to use standard ma-
18	terials, parts, or components in manufac-
19	turing and construction for nuclear energy
20	applications;
21	(iii) opportunities to use standard ma-
22	terials that are in compliance with existing
23	codes to provide acceptable approaches to
24	support or encapsulate new materials that
25	do not yet have applicable codes; and

1	(iv) requirements relating to the
2	transport of a fueled advanced nuclear re-
3	actor core from a manufacturing licensee
4	to a licensee that holds a license to con-
5	struct and operate a facility at a particular
6	site;
7	(C) identify any safety aspects of innova-
8	tive advanced manufacturing processes and ad-
9	vanced construction techniques that are not ad-
10	dressed by existing codes and standards, so that
11	generic guidance may be updated or created, as
12	necessary;
13	(D) identify options for addressing the
14	issues, requirements, and opportunities exam-
15	ined under subparagraphs (A) and (B)—
16	(i) within the existing regulatory
17	framework; or
18	(ii) through a new rulemaking;
19	(E) identify how addressing the issues, re-
20	quirements, and opportunities examined under
21	subparagraphs (A) and (B) will impact oppor-
22	tunities for domestic nuclear manufacturing
23	and construction developers; and

1	(F) describe the extent to which Commis-
2	sion action is needed to implement any matter
3	described in the report.
4	(2) Cost estimates, budgets, and time-
5	FRAMES.—The report shall include cost estimates,
6	proposed budgets, and proposed timeframes for im-
7	plementing risk-informed and performance-based
8	regulatory guidance for manufacturing and construc-
9	tion for nuclear energy applications.
10	SEC. 402. NUCLEAR ENERGY TRAINEESHIP.
11	Section 313 of division C of the Omnibus Appropria-
12	tions Act, 2009 (42 U.S.C. 16274a), is amended—
13	(1) in subsection (a), by striking "Nuclear Reg-
14	ulatory'';
15	(2) in subsection $(b)(1)$, in the matter pre-
16	ceding subparagraph (A), by inserting "and sub-
17	section (c)" after "paragraph (2)";
18	(3) in subsection (c)—
19	(A) by redesignating paragraph (2) as
20	paragraph (5); and
21	(B) by striking paragraph (1) and insert-
22	ing the following:
23	"(1) ADVANCED NUCLEAR REACTOR.—The
24	term 'advanced nuclear reactor' has the meaning

1	given the term in section 951(b) of the Energy Pol-
2	iey Act of 2005 (42 U.S.C. 16271(b)).
3	"(2) Commission.—The term 'Commission'
4	means the Nuclear Regulatory Commission.
5	"(3) Institution of higher education.—
6	The term 'institution of higher education' has the
7	meaning given the term in section 2 of the Energy
8	Policy Act of 2005 (42 U.S.C. 15801).
9	"(4) National Laboratory.—The term 'Na-
10	tional Laboratory' has the meaning given the term
11	in section 951(b) of the Energy Policy Act of 2005
12	(42 U.S.C. 16271(b)).";
13	(4) in subsection $(d)(2)$, by striking "Nuclear
14	Regulatory";
15	(5) by redesignating subsections (c) and (d) as
16	subsections (d) and (e), respectively; and
17	(6) by inserting after subsection (b) the fol-
18	lowing:
19	"(c) Nuclear Energy Traineeship Subpro-
20	GRAM.—
21	"(1) In General.—The Commission shall es-
22	tablish, as a subprogram of the Program, a nuclear
23	energy traineeship subprogram under which the
24	Commission, in coordination with institutions of
25	higher education and trade schools, shall competi-

1	tively award traineeships that provide focused train-
2	ing to meet critical mission needs of the Commission
3	and nuclear workforce needs, including needs relat-
4	ing to the nuclear tradecraft workforce.
5	"(2) Requirements.—In carrying out the nu-
6	clear energy traineeship subprogram described in
7	paragraph (1), the Commission shall—
8	"(A) coordinate with the Secretary of En-
9	ergy to prioritize the funding of traineeships
10	that focus on—
11	"(i) nuclear workforce needs; and
12	"(ii) critical mission needs of the
13	Commission;
14	"(B) encourage appropriate partnerships
15	among—
16	"(i) National Laboratories;
17	"(ii) institutions of higher education;
18	"(iii) trade schools;
19	"(iv) the nuclear energy industry; and
20	"(v) other entities, as the Commission
21	determines to be appropriate; and
22	"(C) on an annual basis, evaluate nuclear
23	workforce needs for the purpose of imple-
24	menting traineeships in focused topical areas
25	that—

1	"(i) address the workforce needs of
2	the nuclear energy community; and
3	"(ii) support critical mission needs of
4	the Commission.".
5	SEC. 403. REPORT ON COMMISSION READINESS AND CA-
6	PACITY TO LICENSE ADDITIONAL CONVER-
7	SION AND ENRICHMENT CAPACITY TO RE-
8	DUCE RELIANCE ON URANIUM FROM RUSSIA.
9	(a) In General.—Not later than 180 days after the
10	date of enactment of this Act, the Commission shall sub-
11	mit to the appropriate committees of Congress a report
12	on the readiness and capacity of the Commission to license
13	additional conversion and enrichment capacity at existing
14	and new fuel cycle facilities to reduce reliance on nuclear
15	fuel that is recovered, converted, enriched, or fabricated
16	by an entity that—
17	(1) is owned or controlled by the Government of
18	the Russian Federation; or
19	(2) is organized under the laws of, or otherwise
20	subject to the jurisdiction of, the Russian Federa-
21	tion.
22	(b) Contents.—The report required under sub-
23	section (a) shall analyze how the capacity of the Commis-
24	sion to license additional conversion and enrichment ca-
25	pacity at existing and new fuel cycle facilities may conflict

1	with or restrict the readiness of the Commission to review
2	advanced nuclear reactor applications.
3	SEC. 404. 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
10	Policy 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 "stand-
16	ard contract" has the meaning given the term "con-
17	tract" in section 961.3 of title 10, Code of Federal
18	Regulations (or a successor regulation).
19	(b) Report.—Not later than January 1, 2025, and
20	annually thereafter, the Secretary of Energy shall submit
21	to Congress a report that describes—
22	(1) the annual and cumulative amount of pay-
23	ments made by the United States to the holder of
24	a standard contract due to a partial breach of con-
25	tract under the Nuclear Waste Policy Act of 1982

1 (42 U.S.C. 10101 et seq.) resulting in financial 2 damages to the holder; 3 (2) the cumulative amount spent by the Depart-4 ment of Energy since fiscal year 2008 to reduce fu-5 ture payments projected to be made by the United 6 States to any holder of a standard contract due to 7 a partial breach of contract under the Nuclear 8 Waste Policy Act of 1982 (42 U.S.C. 10101 et seq.); 9 (3) the cumulative amount spent by the Depart-10 ment of Energy to store, manage, and dispose of spent nuclear fuel and high-level radioactive waste in 11 12 the United States as of the date of the report; 13 (4) the projected lifecycle costs to store, man-14 age, transport, and dispose of the projected inven-15 tory of spent nuclear fuel and high-level radioactive 16 waste in the United States, including spent nuclear 17 fuel and high-level radioactive waste expected to be 18 generated from existing reactors through 2050; 19 (5) any mechanisms for better accounting of li-20 abilities for the lifecycle costs of the spent nuclear 21 fuel and high-level radioactive waste inventory in the 22 United States; 23 (6) any recommendations for improving the 24 methods used by the Department of Energy for the

1	accounting of spent nuclear fuel and high-level ra-
2	dioactive waste costs and liabilities;
3	(7) any actions taken in the previous fiscal year
4	by the Department of Energy with respect to in-
5	terim storage; and
6	(8) any activities taken in the previous fiscal
7	year by the Department of Energy to develop and
8	deploy nuclear technologies and fuels that enhance
9	the safe transportation or storage of spent nuclear
10	fuel or high-level radioactive waste, including tech-
11	nologies to protect against seismic, flooding, and
12	other extreme weather events.
10	SEC 405 AUGUODIZATION OF ADDDODDIATIONS FOR
13	SEC. 405. AUTHORIZATION OF APPROPRIATIONS FOR
13 14	SUPERFUND ACTIONS AT ABANDONED MIN-
14	SUPERFUND ACTIONS AT ABANDONED MIN-
14 15	SUPERFUND ACTIONS AT ABANDONED MIN- ING SITES ON TRIBAL LAND.
141516	SUPERFUND ACTIONS AT ABANDONED MIN- ING SITES ON TRIBAL LAND. (a) DEFINITIONS.—In this section:
14151617	SUPERFUND ACTIONS AT ABANDONED MIN- ING SITES ON TRIBAL LAND. (a) DEFINITIONS.—In this section: (1) ELIGIBLE NON-NPL SITE.—The term "eli-
14 15 16 17 18	SUPERFUND ACTIONS AT ABANDONED MIN- ING SITES ON TRIBAL LAND. (a) DEFINITIONS.—In this section: (1) ELIGIBLE NON-NPL SITE.—The term "eligible non-NPL site" means a site—
14 15 16 17 18 19	SUPERFUND ACTIONS AT ABANDONED MIN- ING SITES ON TRIBAL LAND. (a) DEFINITIONS.—In this section: (1) ELIGIBLE NON-NPL SITE.—The term "eligible non-NPL site" means a site— (A) that is not on the National Priorities
14 15 16 17 18 19 20	SUPERFUND ACTIONS AT ABANDONED MIN- ING SITES ON TRIBAL LAND. (a) DEFINITIONS.—In this section: (1) ELIGIBLE NON-NPL SITE.—The term "eligible non-NPL site" means a site— (A) that is not on the National Priorities List; but
14 15 16 17 18 19 20 21	SUPERFUND ACTIONS AT ABANDONED MIN- ING SITES ON TRIBAL LAND. (a) DEFINITIONS.—In this section: (1) ELIGIBLE NON-NPL SITE.—The term "eligible non-NPL site" means a site— (A) that is not on the National Priorities List; but (B) with respect to which the Adminis-
14 15 16 17 18 19 20 21 22	SUPERFUND ACTIONS AT ABANDONED MIN- ING SITES ON TRIBAL LAND. (a) DEFINITIONS.—In this section: (1) ELIGIBLE NON-NPL SITE.—The term "eligible non-NPL site" means a site— (A) that is not on the National Priorities List; but (B) with respect to which the Administrator determines that—

1	tion at the site, applying the hazard rank-
2	ing system described in section 105(c) of
3	the Comprehensive Environmental Re-
4	sponse, Compensation, and Liability Act of
5	1980 (42 U.S.C. 9605(c)); and
6	(ii) for removal site evaluations, engi-
7	neering evaluations/cost analyses, remedial
8	planning activities, remedial investigations
9	and feasibility studies, and other actions
10	taken pursuant to section 104(b) of that
l 1	Act (42 U.S.C. 9604), the site—
12	(I) has undergone a pre-
13	CERCLA screening; and
14	(II) is included in the Superfund
15	Enterprise Management System.
16	(2) Indian Tribe.—The term "Indian Tribe"
17	has the meaning given the term in section 4 of the
18	Indian Self-Determination and Education Assistance
19	Act (25 U.S.C. 5304).
20	(3) National priorities list.—The term
21	"National Priorities List" means the National Prior-
22	ities List developed by the President in accordance
23	with section 105(a)(8)(B) of the Comprehensive En-
24	vironmental Response, Compensation, and Liability
25	Act of 1980 (42 U.S.C. 9605(a)(8)(B)).

1	(4) Remedial action; removal; response.—
2	The terms "remedial action", "removal", and "re-
3	sponse" have the meanings given those terms in sec-
4	tion 101 of the Comprehensive Environmental Re-
5	sponse, Compensation, and Liability Act of 1980 (42
6	U.S.C. 9601).
7	(5) Tribal Land.—The term "Tribal land"
8	has the meaning given the term "Indian country" in
9	section 1151 of title 18, United States Code.
10	(b) Authorization of Appropriations.—There
11	are authorized to be appropriated for each of fiscal years
12	2023 through 2032, to remain available until expended—
13	(1) \$97,000,000 to the Administrator to carry
14	out this section (except for subsection (d)); and
15	(2) \$3,000,000 to the Administrator of the
16	Agency for Toxic Substances and Disease Registry
17	to carry out subsection (d).
18	(c) Uses of Amounts.—Amounts appropriated
19	under subsection (b)(1) shall be used by the Adminis-
20	trator—
21	(1) to carry out removal actions on abandoned
22	mine land located on Tribal land;
23	(2) to carry out response actions, including re-
24	moval and remedial planning activities, removal and
25	remedial studies, remedial actions, and other actions

1	taken pursuant to section 104(b) of the Comprehen-
2	sive Environmental Response, Compensation, and
3	Liability Act of 1980 (42 U.S.C. 9604(b)) on aban-
4	doned mine land located on Tribal land at—
5	(A) eligible non-NPL sites; and
6	(B) sites listed on the National Priorities
7	List; and
8	(3) to make grants under subsection (e).
9	(d) Health Assessments.—Subject to the avail-
10	ability of appropriations, the Agency for Toxic Substances
11	and Disease Registry, in coordination with Tribal health
12	authorities, shall perform 1 or more health assessments
13	at each eligible non-NPL site that is located on Tribal
14	land, in accordance with section 104(i)(6) of the Com-
15	prehensive Environmental Response, Compensation, and
16	Liability Act of 1980 (42 U.S.C. 9604(i)(6)).
17	(e) Tribal Grants.—
18	(1) In General.—The Administrator may use
19	amounts appropriated under subsection $(b)(1)$ to
20	make grants to eligible entities described in para-
21	graph (2) for the purposes described in paragraph
22	(3).
23	(2) Eligible entities described.—An eligi-
24	ble entity referred to in paragraph (1) is—

1	(A) the governing body of an Indian Tribe;
2	or
3	(B) a legally established organization of
4	Indians that—
5	(i) is controlled, sanctioned, or char-
6	tered by the governing bodies of 2 or more
7	Indian Tribes to be served, or that is
8	democratically elected by the adult mem-
9	bers of the Indian community to be served,
10	by that organization; and
11	(ii) includes the maximum participa-
12	tion of Indians in all phases of the activi-
13	ties of that organization.
14	(3) Use of grant funds.—A grant under this
15	subsection shall be used—
16	(A) in accordance with the second sentence
17	of section 117(e)(1) of the Comprehensive Envi-
18	ronmental Response, Compensation, and Liabil-
19	ity Act of 1980 (42 U.S.C. 9617(e)(1));
20	(B) for obtaining technical assistance in
21	carrying out response actions under subpara-
22	graph (C); or
23	(C) for carrying out response actions, if
24	the Administrator determines that the Indian
25	Tribe has the capability to carry out any or all

1	of those response actions in accordance with the
2	criteria and priorities established pursuant to
3	section 105(a)(8) of the Comprehensive Envi-
4	ronmental Response, Compensation, and Liabil-
5	ity Act of 1980 (42 U.S.C. 9605(a)(8)).
6	(4) Applications.—An eligible entity desiring
7	a grant under this subsection shall submit to the
8	Administrator an application at such time, in such
9	manner, and containing such information as the Ad-
10	ministrator may require.
11	(5) Limitations.—A grant under this sub-
12	section shall be governed by the rules, procedures,
13	and limitations described in section 117(e)(2) of the
14	Comprehensive Environmental Response, Compensa-
15	tion, and Liability Act of 1980 (42 U.S.C.
16	9617(e)(2)), except 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 405 of the ADVANCE Act of
23	2023" shall be substituted for "under this sub-
24	section".

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 (as defined in section 101 of the Comprehensive Environ-4 5 mental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601)) with respect to that eligible non-6 7 NPL site unless the action is commenced within the time-8 frame provided for such actions with respect to facilities on the National Priorities List in the first sentence of the 10 matter following subparagraph (B) of section 113(g)(1) of that Act (42 U.S.C. 9613(g)(1)). 11 12 (g) COORDINATION.—The Administrator shall coordinate with the Indian Tribe on whose land the applicable 14 site is located in— 15 (1) selecting and prioritizing sites for response 16 actions under paragraphs (1) and (2) of subsection 17 (c); and 18 (2) carrying out those response actions. 19 SEC. 406. DEVELOPMENT, QUALIFICATION, AND LICENSING 20 OF ADVANCED NUCLEAR FUEL CONCEPTS. 21 (a) In General.—The Commission shall establish 22 an initiative to enhance preparedness and coordination 23 with respect to the qualification and licensing of advanced nuclear fuel.

1	(b) Agency Coordination.—Not later than 180
2	days after the date of enactment of this Act, the Commis-
3	sion and the Secretary of Energy shall enter into a memo-
4	randum of understanding—
5	(1) to share technical expertise and knowledge
6	through—
7	(A) enabling the testing and demonstration
8	of accident tolerant fuels for existing commer-
9	cial nuclear reactors and advanced nuclear reac-
10	tor fuel concepts to be proposed and funded, in
11	whole or in part, by the private sector;
12	(B) operating a database to store and
13	share data and knowledge relevant to nuclear
14	science and engineering between Federal agen-
15	cies and the private sector;
16	(C) leveraging expertise with respect to
17	safety analysis and research relating to ad-
18	vanced nuclear fuel; and
19	(D) enabling technical staff to actively ob-
20	serve and learn about technologies, with an em-
21	phasis on identification of additional informa-
22	tion needed with respect to advanced nuclear
23	fuel; and
24	(2) to ensure that—

1	(A) the Department of Energy has suffi-
2	cient technical expertise to support the timely
3	research, development, demonstration, and com-
4	mercial application of advanced nuclear fuel;
5	(B) the Commission has sufficient tech-
6	nical expertise to support the evaluation of ap-
7	plications for licenses, permits, and design cer-
8	tifications and other requests for regulatory ap-
9	proval for advanced nuclear fuel;
10	(C)(i) the Department of Energy main-
11	tains and develops the facilities necessary to en-
12	able the timely research, development, dem-
13	onstration, and commercial application by the
14	civilian nuclear industry of advanced nuclear
15	fuel; and
16	(ii) the Commission has access to the fa-
17	cilities described in clause (i), as needed; and
18	(D) the Commission consults, as appro-
19	priate, with the modeling and simulation ex-
20	perts at the Office of Nuclear Energy of the
21	Department of Energy, at the National Labora-
22	tories, and within industry fuel vendor teams in
23	cooperative agreements with the Department of
24	Energy to leverage physics-based computer
25	modeling and simulation capabilities.

1	(c) Report.—
2	(1) In general.—Not later than 1 year after
3	the date of enactment of this Act, the Commission
4	shall submit to the appropriate committees of Con-
5	gress a report describing the efforts of the Commis-
6	sion under subsection (a), including—
7	(A) an assessment of the preparedness of
8	the Commission to review and qualify for use—
9	(i) accident tolerant fuel;
10	(ii) ceramic cladding materials;
11	(iii) fuels containing silicon carbide;
12	(iv) high-assay, low-enriched uranium
13	fuels;
14	(v) molten-salt based liquid fuels;
15	(vi) fuels derived from spent nuclear
16	fuel or depleted uranium; and
17	(vii) other related fuel concepts, as de-
18	termined by the Commission;
19	(B) activities planned or undertaken under
20	the memorandum of understanding described in
21	subsection (b);
22	(C) an accounting of the areas of research
23	needed with respect to advanced nuclear fuel
24	and

1	(D) any other challenges or considerations
2	identified by the Commission.
3	(2) Consultation.—In developing the report
4	under paragraph (1), the Commission shall seek
5	input from—
6	(A) the Secretary of Energy;
7	(B) National Laboratories;
8	(C) the nuclear energy industry;
9	(D) technology developers;
10	(E) nongovernmental organizations; and
11	(F) other public stakeholders.
12	TITLE V—IMPROVING
13	COMMISSION EFFICIENCY
	CEC FOI COMMICCION WODIZEODCE
14	SEC. 501. COMMISSION WORKFORCE.
14	(a) Definition of Chairman.—In this section, the
15	(a) DEFINITION OF CHAIRMAN.—In this section, the term "Chairman" means the Chairman of the Commis-
15 16	(a) DEFINITION OF CHAIRMAN.—In this section, the term "Chairman" means the Chairman of the Commis-
15 16 17	(a) Definition of Chairman.—In this section, the term "Chairman" means the Chairman of the Commission.
15 16 17 18	(a) Definition of Chairman.—In this section, the term "Chairman" means the Chairman of the Commission.(b) Hiring Bonus and Appointment Author-
15 16 17 18	(a) Definition of Chairman.—In this section, the term "Chairman" means the Chairman of the Commission.(b) Hiring Bonus and Appointment Author-ITY.—
15 16 17 18 19	 (a) Definition of Chairman.—In this section, the term "Chairman" means the Chairman of the Commission. (b) Hiring Bonus and Appointment Authority.— (1) In General.—Notwithstanding section 161
15 16 17 18 19 20 21	 (a) Definition of Chairman.—In this section, the term "Chairman" means the Chairman of the Commission. (b) Hiring Bonus and Appointment Author-ITY.— (1) In General.—Notwithstanding section 161 d. of the Atomic Energy Act of 1954 (42 U.S.C.
15 16 17 18 19 20 21	 (a) Definition of Chairman.—In this section, the term "Chairman" means the Chairman of the Commission. (b) Hiring Bonus and Appointment Authority.— (1) In General.—Notwithstanding section 161 d. of the Atomic Energy Act of 1954 (42 U.S.C. 2201(d)), any provision of Reorganization Plan No.

1	and pay rates, the Chairman may, subject to the
2	limitations described in paragraph (3), and without
3	regard to the civil service laws—
4	(A) establish the positions described in
5	paragraph (2); and
6	(B) appoint persons to the positions estab-
7	lished under subparagraph (A).
8	(2) Positions described.—The positions re-
9	ferred to in paragraph (1)(A) are—
10	(A) permanent or term-limited positions
11	with highly specialized scientific, engineering,
12	and technical competencies to address a critical
13	licensing or regulatory oversight need for the
14	Commission, including—
15	(i) health physicist;
16	(ii) reactor operations engineer;
17	(iii) human factors analyst or engi-
18	neer;
19	(iv) risk and reliability analyst or en-
20	gineer;
21	(v) licensing project manager;
22	(vi) reactor engineer for severe acci-
23	dents;
24	(vii) geotechnical engineer;
25	(viii) structural engineer;

1	(ix) reactor systems engineer;
2	(x) reactor engineer;
3	(xi) radiation scientist; and
4	(xii) electronics engineer; or
5	(B) permanent or term-limited positions to
6	be filled by exceptionally well-qualified individ-
7	uals that the Chairman, subject to subsection
8	(e), determines are necessary to fulfill the mis-
9	sion of the Commission.
10	(3) Limitations.—
11	(A) In General.—Appointments under
12	paragraph (1)(B) may be made to not more
13	than—
14	(i)(I) 15 permanent positions de-
15	scribed in paragraph (2)(A) during fiscal
16	year 2024; and
17	(II) 10 permanent positions described
18	in paragraph (2)(A) during each fiscal
19	year thereafter;
20	(ii)(I) 15 term-limited positions de-
21	scribed in paragraph (2)(A) during fiscal
22	year 2024; and
23	(II) 10 term-limited positions de-
24	scribed in paragraph (2)(A) during each
25	fiscal year thereafter;

1	(iii)(I) 15 permanent positions de-
2	scribed in paragraph (2)(B) during fiscal
3	year 2024; and
4	(II) 10 permanent positions described
5	in paragraph (2)(B) during each fiscal
6	year thereafter; and
7	(iv)(I) 15 term-limited positions de-
8	scribed in paragraph (2)(B) during fiscal
9	year 2024; and
10	(II) 10 term-limited positions de-
11	scribed in paragraph (2)(B) during each
12	fiscal year thereafter.
13	(B) TERM OF TERM-LIMITED APPOINT-
14	MENT.—If a person is appointed to a term-lim-
15	ited position described in subparagraph (A) or
16	(B) of paragraph (2), the term of that appoint-
17	ment shall not exceed 4 years.
18	(C) Staff positions.—Subject to sub-
19	section (e), appointments made to positions es-
20	tablished under this subsection shall be to a
21	range of staff positions that are of entry, mid,
22	and senior levels, to the extent practicable.
23	(4) Hiring Bonus.—The Commission may pay
24	a person appointed under paragraph (1) a 1-time

I	hiring bonus in an amount not to exceed the leas
2	of—
3	(A) \$25,000;
4	(B) the amount equal to 15 percent of the
5	annual rate of basic pay of the employee; and
6	(C) the amount of the limitation that is
7	applicable for a calendar year under section
8	5307(a)(1) of title 5, United States Code.
9	(c) Compensation and Appointment Author
10	ITY.—
11	(1) In general.—Notwithstanding section 161
12	d. of the Atomic Energy Act of 1954 (42 U.S.C
13	2201(d)), any provision of Reorganization Plan No
14	1 of 1980 (94 Stat. 3585; 5 U.S.C. app.), and chap
15	ter 51, and subchapter III of chapter 53, of title 5
16	United States Code, the Chairman, subject to the
17	limitations described in paragraph (3) and without
18	regard to the civil service laws, may—
19	(A) establish and fix the rates of basic pay
20	for the positions described in paragraph (2)
21	and
22	(B) appoint persons to the positions estab
23	lished under subparagraph (A).
24	(2) Positions described.—The positions re
25	ferred to in paragraph (1)(A) are—

1	(A) positions with highly specialized sci-
2	entific, engineering, and technical competencies
3	to address a critical need for the Commission,
4	including—
5	(i) health physicist;
6	(ii) reactor operations engineer;
7	(iii) human factors analyst or engi-
8	neer;
9	(iv) risk and reliability analyst or en-
10	gineer;
11	(v) licensing project manager;
12	(vi) reactor engineer for severe acci-
13	dents;
14	(vii) geotechnical engineer;
15	(viii) structural engineer;
16	(ix) reactor systems engineer;
17	(x) reactor engineer;
18	(xi) radiation scientist;
19	(xii) seismic engineer; and
20	(xiii) electronics engineer; or
21	(B) positions to be filled by exceptionally
22	well-qualified persons that the Chairman, sub-
23	ject to subsection (e), determines are necessary
24	to fulfill the mission of the Commission.
25	(3) Limitations.—

1	(A) IN GENERAL.—The annual rate of
2	basic pay for a position described in paragraph
3	(2) may not exceed the per annum rate of sal-
4	ary payable for level III of the Executive Sched-
5	ule under section 5314 of title 5, United States
6	Code.
7	(B) Number of Positions.—Appoint-
8	ments under paragraph (1)(B) may be made to
9	not more than—
10	(i) 10 positions described in para-
11	graph (2)(A) per fiscal year, not to exceed
12	a total of 50 positions; and
13	(ii) 10 positions described in para-
14	graph (2)(B) per fiscal year, not to exceed
15	a total of 50 positions.
16	(4) Performance Bonus.—
17	(A) In general.—Subject to subpara-
18	graphs (B) and (C), an employee may be paid
19	a 1-time performance bonus in an amount not
20	to exceed the least of—
21	(i) \$25,000;
22	(ii) the amount equal to 15 percent of
23	the annual rate of basic pay of the person;
24	and

1	(111) the amount of the limitation that
2	is applicable for a calendar year under sec-
3	tion 5307(a)(1) of title 5, United States
4	Code.
5	(B) Performance.—Any 1-time perform-
6	ance bonus under subparagraph (A) shall be
7	made to a person who demonstrated exceptional
8	performance in the applicable fiscal year, in-
9	cluding—
10	(i) leading a project team in a timely,
11	efficient, and predictable licensing review
12	to enable the safe use of nuclear tech-
13	nology;
14	(ii) making significant contributions
15	to a timely, efficient, and predictable li-
16	censing review to enable the safe use of
17	nuclear technology;
18	(iii) the resolution of novel or first-of-
19	a-kind regulatory issues;
20	(iv) developing or implementing licens-
21	ing or regulatory oversight processes to im-
22	prove the effectiveness of the Commission;
23	and
24	(v) other performance, as determined
25	by the Chairman, subject to subsection (e).

1	(C) Limitations.—The Commission may
2	pay a 1-time performance bonus under subpara-
3	graph (A) for not more than 15 persons per fis-
4	cal year, and a person who receives a 1-time
5	performance bonus under that subparagraph
6	may not receive another 1-time performance
7	bonus under that subparagraph for a period of
8	5 years thereafter.
9	(d) Annual Solicitation for Nuclear Regu-
10	LATOR APPRENTICESHIP NETWORK APPLICATIONS.—The
11	Chairman, on an annual basis, shall solicit applications for
12	the Nuclear Regulator Apprenticeship Network.
13	(e) Application of Merit System Principles.—
14	To the maximum extent practicable, appointments under
15	subsections (b)(1) and (c)(1) and any 1-time performance
16	bonus under subsection $(c)(4)$ shall be made in accordance
17	with the merit system principles set forth in section 2301
18	of title 5, United States Code.
19	(f) Delegation.—Pursuant to Reorganization Plan
20	No. 1 of 1980 (94 Stat. 3585; 5 U.S.C. app.), the Chair-
21	man shall delegate, subject to the direction and super-
22	vision of the Chairman, the authority provided by sub-
23	sections (b), (c), and (d) to the Executive Director for Op-
24	erations of the Commission.

1	(g) Annual Report.—The Commission shall in
2	clude in the annual budget justification of the Commis
3	sion—
4	(1) information that describes—
5	(A) the total number of and the position
6	of the persons appointed under the authority
7	provided by subsection (b);
8	(B) the total number of and the position
9	of the persons paid at the rate determined
10	under the authority provided by subsection
11	(e)(1);
12	(C) the total number of and the position
13	of the persons paid a 1-time performance bonu
14	under the authority provided by subsection
15	(e)(4);
16	(D) how the authority provided by sub
17	sections (b) and (c) is being used, and has been
18	used during the previous fiscal year, to addres
19	the hiring and retention needs of the Commis
20	sion with respect to the positions described in
21	those subsections to which that authority is ap
22	plicable;
23	(E) if the authority provided by sub
24	sections (b) and (c) is not being used, or ha

1	not been used, the reasons, including a jus-
2	tification, for not using that authority; and
3	(F) the attrition levels with respect to the
4	term-limited appointments made under sub-
5	section (b), including, with respect to persons
6	leaving a position before completion of the ap-
7	plicable term of service, the average length of
8	service as a percentage of the term of service;
9	(2) an assessment of—
10	(A) the current critical workforce needs of
11	the Commission, including any critical work-
12	force needs that the Commission anticipates in
13	the subsequent 5 fiscal years; and
14	(B) further skillsets that are or will be
15	needed for the Commission to fulfill the licens-
16	ing and oversight responsibilities of the Com-
17	mission; and
18	(3) the plans of the Commission to assess, de-
19	velop, and implement updated staff performance
20	standards, training procedures, and schedules.
21	(h) Report on Attrition and Effectiveness.—
22	Not later than September 30, 2032, the Commission shall
23	submit to the Committees on Appropriations and Environ-
24	ment and Public Works of the Senate and the Committees

1	on Appropriations and Energy and Commerce of the
2	House of Representatives a report that—
3	(1) describes the attrition levels with respect to
4	the term-limited appointments made under sub
5	section (b), including, with respect to persons leav
6	ing a position before completion of the applicable
7	term of service, the average length of service as a
8	percentage of the term of service;
9	(2) provides the views of the Commission on the
10	effectiveness of the authorities provided by sub
11	sections (b) and (c) in helping the Commission fulfil
12	the mission of the Commission; and
13	(3) makes recommendations with respect to
14	whether the authorities provided by subsections (b)
15	and (e) should be continued, modified, or discon
16	tinued.
17	SEC. 502. COMMISSION CORPORATE SUPPORT FUNDING.
18	(a) Report.—Not later than 3 years after the date
19	of enactment of this Act, the Commission shall submit to
20	the appropriate committees of Congress and make publicly
21	available a report that describes—
22	(1) the progress on the implementation of sec
23	tion 102(a)(3) of the Nuclear Energy Innovation
24	and Modernization 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	(b) Limitation on Corporate Support Costs.—
5	Section 102(a)(3) of the Nuclear Energy Innovation and
6	Modernization Act (42 U.S.C. 2215(a)(3)) is amended by
7	striking subparagraphs (B) and (C) and inserting the fol-
8	lowing:
9	"(B) 30 percent for fiscal year 2024 and
10	each fiscal year thereafter.".
11	(c) Corporate Support Costs Clarification.—
12	Paragraph (9) of section 3 of the Nuclear Energy Innova-
13	tion and Modernization Act (42 U.S.C. 2215 note; Public
14	Law 115–439) (as redesignated by section 201(a)(1)) is
15	amended—
16	(1) by striking "The term" and inserting the
17	following:
18	"(A) IN GENERAL.—The term"; and
19	(2) by adding at the end the following:
20	"(B) Exclusions.—The term 'corporate
21	support costs' does not include—
22	"(i) costs for rent and utilities relat-
23	ing to any and all space in the Three
24	White Flint North building that is not oc-
25	cupied by the Commission; or

1	"(ii) costs for salaries, travel, and
2	other support for the Office of the Com-
3	mission.".
4	SEC. 503. PERFORMANCE AND REPORTING UPDATE.
5	Section 102(c) of the Nuclear Energy Innovation and
6	Modernization Act (42 U.S.C. 2215(c)) is amended—
7	(1) in paragraph (3)—
8	(A) in the paragraph heading, by striking
9	"180" and inserting "90"; and
10	(B) by striking "180" and inserting "90";
11	and
12	(2) by adding at the end the following:
13	"(4) Periodic updates to metrics and
14	SCHEDULES.—
15	"(A) REVIEW AND ASSESSMENT.—Not less
16	frequently than once every 3 years, the Com-
17	mission shall review and assess, based on the li-
18	censing and regulatory activities of the Com-
19	mission, the performance metrics and milestone
20	schedules established under paragraph (1).
21	"(B) REVISIONS.—After each review and
22	assessment under subparagraph (A), the Com-
23	mission shall revise and improve, as appro-
24	priate, the performance metrics and milestone
25	schedules described in that subparagraph to

1	provide the most efficient metrics and schedules
2	reasonably achievable.".
3	TITLE VI—MISCELLANEOUS
4	SEC. 601. NUCLEAR CLOSURE COMMUNITIES.
5	(a) Definitions.—In this section:
6	(1) Community advisory board.—The term
7	"community advisory board" means a community
8	committee or other advisory organization that aims
9	to foster communication and information exchange
10	between a licensee planning for and involved in de-
11	commissioning activities and members of the com-
12	munity that decommissioning activities may affect.
13	(2) Decommission.—The term "decommis-
14	sion" has the meaning given the term in section
15	50.2 of title 10, Code of Federal Regulations (or
16	successor regulations).
17	(3) ELIGIBLE RECIPIENT.—The term "eligible
18	recipient" has the meaning given the term in section
19	3 of the Public Works and Economic Development
20	Act of 1965 (42 U.S.C. 3122).
21	(4) LICENSEE.—The term "licensee" has the
22	meaning given the term in section 50.2 of title 10
23	Code of Federal Regulations (or successor regula-
24	tions).

1	(5) NUCLEAR CLOSURE COMMUNITY.—The
2	term "nuclear closure community" means a unit of
3	local government, including a county, city, town, vil-
4	lage, school district, or special district, that has been
5	impacted, or reasonably demonstrates to the satis-
6	faction of the Secretary that it will be impacted, by
7	a nuclear power plant licensed by the Commission
8	that—
9	(A) is not co-located with an operating nu-
10	clear power plant;
11	(B) is at a site with spent nuclear fuel
12	and
13	(C) as of the date of enactment of this
14	Act—
15	(i) has ceased operations; or
16	(ii) has provided a written notification
17	to the Commission that it will cease oper-
18	ations.
19	(6) Secretary.—The term "Secretary" means
20	the Secretary of Commerce, acting through the As-
21	sistant Secretary of Commerce for Economic Devel-
22	opment.
23	(b) Establishment.—Not later than 180 days after
24	the date of enactment of this Act, the Secretary shall es-

1	tablish a grant program to provide grants to eligible re-
2	cipients—
3	(1) to assist with economic development in nu-
4	clear closure communities; and
5	(2) to fund community advisory boards in nu-
6	clear closure communities.
7	(c) REQUIREMENT.—In carrying out this section, to
8	the maximum extent practicable, the Secretary shall im-
9	plement the recommendations described in the report sub-
10	mitted to Congress under section 108 of the Nuclear En-
11	ergy Innovation and Modernization Act (Public Law 115-
12	439; 132 Stat. 5577) entitled "Best Practices for Estab-
13	lishment and Operation of Local Community Advisory
14	Boards Associated with Decommissioning Activities at
15	Nuclear Power Plants".
16	(d) DISTRIBUTION OF FUNDS.—The Secretary shall
17	establish a formula to ensure, to the maximum extent
18	practicable, geographic diversity among grant recipients
19	under this section.
20	(e) Authorization of Appropriations.—
21	(1) In general.—There are authorized to be
22	appropriated to the Secretary—
23	(A) to carry out subsection $(b)(1)$
24	\$35,000,000 for each of fiscal years 2023
25	through 2028; and

1	(B) to carry out subsection $(b)(2)$,
2	\$5,000,000 for each of fiscal years 2023
3	through 2025.
4	(2) AVAILABILITY.—Amounts made available
5	under this section shall remain available for a period
6	of 5 years beginning on the date on which the
7	amounts are made available.
8	(3) No offset.—None of the funds made
9	available under this section may be used to offset
10	the funding for any other Federal program.
11	SEC. 602. TECHNICAL CORRECTION.
12	Section 104 c. of the Atomic Energy Act of 1954 (42
13	U.S.C. 2134(c)) is amended—
14	(1) by striking the third sentence and inserting
15	the following:
16	"(3) Limitation on utilization facili-
17	TIES.—The Commission may issue a license under
18	this section for a utilization facility useful in the
19	conduct of research and development activities of the
20	types specified in section 31 if—
21	"(A) not more than 75 percent of the an-
22	nual costs to the licensee of owning and oper-
23	ating the facility are devoted to the sale, other
24	than for research and development or education
25	and training, of—

1	"(i) nonenergy services;
2	"(ii) energy; or
3	"(iii) a combination of nonenergy
4	services and energy; and
5	"(B) not more than 50 percent of the an-
6	nual costs to the licensee of owning and oper-
7	ating the facility are devoted to the sale of en-
8	ergy.";
9	(2) in the second sentence, by striking "The
10	Commission" and inserting the following:
11	"(2) Regulation.—The Commission"; and
12	(3) by striking "c. The Commission" and in-
13	serting the following:
14	"c. Research and Development Activities.—
15	"(1) In general.—Subject to paragraphs (2)
16	and (3), the Commission".
17	SEC. 603. REPORT ON ENGAGEMENT WITH THE GOVERN-
18	MENT OF CANADA WITH RESPECT TO NU-
19	CLEAR WASTE ISSUES IN THE GREAT LAKES
20	BASIN.
21	Not later than 1 year after the date of enactment
22	of this Act, the Commission shall submit to Congress a
23	report describing any engagement between the Commis-
24	sion and the Government of Canada with respect to nu-
25	clear waste issues in the Great Lakes Basin.