

117TH CONGRESS 1ST SESSION H.R. 1748

To assess and improve the competitiveness of American civilian nuclear commerce, to expedite Department of Energy review of certain nuclear technology exports, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

March 10, 2021

Mr. Johnson of Ohio (for himself and Mr. Gonzalez of Ohio) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committee on Foreign Affairs, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To assess and improve the competitiveness of American civilian nuclear commerce, to expedite Department of Energy review of certain nuclear technology exports, 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,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "Strengthening Amer-
- 5 ican Nuclear Competitiveness Act".

1 SEC. 2. COMPETITIVENESS OF NUCLEAR COMMERCE.

2	(a) REPORT.—Not later than 180 days after the date
3	of enactment of this Act, the Secretary of Energy shall
4	develop and submit to Congress a report on United States
5	civilian nuclear commerce.
6	(b) Consultation.—In developing the report re-
7	quired under subsection (a), the Secretary of Energy shall
8	consult with—
9	(1) the Secretary of State;
10	(2) the Secretary of Commerce;
11	(3) the Administrator of the Environmental
12	Protection Agency; and
13	(4) the Nuclear Regulatory Commission.
14	(c) Contents.—The report required under sub-
15	section (a) shall include—
16	(1) an assessment of—
17	(A) legal and regulatory requirements and
18	policies of, and commercial practices in, the
19	United States with respect to the civilian nu-
20	clear industry of the United States;
21	(B) the effects of such practices on such
22	civilian nuclear industry in domestic and for-
23	eign commerce;
24	(C) the role of emerging United States nu-
25	clear technologies and applications of such tech-

1	nologies, including nonelectric applications of
2	those technologies; and
3	(D) the effects of advanced manufacturing
4	and construction methods for nuclear tech-
5	nologies on the costs of such technologies and
6	the civilian nuclear industry of the United
7	States;
8	(2) a comparison of the matters assessed in
9	paragraph (1) with respect to the United States to
10	an assessment of such matters as they apply with
11	respect to foreign countries;
12	(3) recommendations to improve the competi-
13	tiveness of United States civilian nuclear commerce;
14	and
15	(4) recommendations relating to the application
16	of section 170 of the Atomic Energy Act of 1954
17	(42 U.S.C. 2210) with respect to advanced nuclear
18	technologies.
19	SEC. 3. EXPEDITING NUCLEAR TECHNOLOGY EXPORTS.
20	(a) Expedited Procedures.—Section 57 of the
21	Atomic Energy Act of 1954 (42 U.S.C. 2077) is amended
22	by adding at the end the following new subsection:
23	"(f) Expedited Procedures.—
24	"(1) Establishment.—In carrying out sub-
25	section b.(2), the Secretary of Energy shall establish

1	procedures for expedited consideration of requests
2	for authorizations regarding the transfer of a tech-
3	nology that involves a low-proliferation-risk reactor
4	activity described in paragraph (2) of this subsection
5	to a foreign country described in paragraph (3) of
6	this subsection.
7	"(2) ACTIVITIES.—A low-proliferation-risk reac-
8	tor activity described in this paragraph is an activity
9	that meets each of following criteria:
10	"(A) The activity is listed in section
11	810.2(b) of title 10, Code of Federal Regula-
12	tions, as in effect on the date of enactment of
13	this Act.
14	"(B) The activity is not an activity requir-
15	ing a specific authorization pursuant to section
16	810.7(c) of such title, as in effect on such date
17	"(C) The Secretary determines that the
18	transfer (or retransfer) of a technology that in-
19	volves the activity will not result in a significant
20	increase of the risk of proliferation beyond such
21	risk that exists at the time that the authoriza-
22	tion is requested.

"(3) FOREIGN COUNTRIES.—A foreign country

described in this paragraph is a foreign country—

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1	"(A) that is not a nuclear-weapon State, as
2	defined by Article IX of the Treaty on the Non-
3	Proliferation of Nuclear Weapons, signed at
4	Washington, London, and Moscow on July 1,
5	1968, other than the United Kingdom or
6	France; and
7	"(B) with respect to which the Secretary
8	determines under subsection b.(2) that a trans-
9	fer to the country of a technology that involves
10	a low-proliferation-risk reactor activity de-
11	scribed in paragraph (2) of this subsection will
12	not be inimical to the interest of the United
13	States.
14	"(4) CONCURRENCE AND CONSULTATION.—The
15	Secretary of Energy shall establish the procedures
16	under paragraph (1) with the concurrence of the De-
17	partment of State and after consultation with the
18	Nuclear Regulatory Commission, the Department of
19	Commerce, and the Department of Defense.
20	"(5) TIMING AND AVAILABILITY.—The proce-
21	dures established under paragraph (1) shall—
22	"(A) ensure that each request is approved
23	or denied by not later than 45 days after the
24	later of—

1	"(i) the date on which the foreign
2	country transmits any required assurances
3	to the Department of State; or
4	"(ii) the date on which the inter-
5	agency review under subsection b. is com-
6	pleted; and
7	"(B) be publicly available.".
8	(b) Assurances.—Section 57(b) of such Act (42
9	U.S.C. 2077(b)) is amended by inserting after "mecha-
10	nisms." the following new sentence: "To the extent prac-
11	ticable, the Secretary of Energy shall continue to process
12	such requests during such interagency review in a manner
13	that enables the Secretary to make such determination as
14	soon as practicable after the receipt of assurances by a
15	foreign country to the Department of State, if any such
16	assurances are required.".
17	SEC. 4. LICENSING DOMESTIC NUCLEAR PROJECTS IN
18	WHICH UNITED STATES ALLIES INVEST.
19	(a) In General.—The prohibitions against issuing
20	certain licenses for utilization facilities to certain corpora-
21	tions and other entities described in the second sentence
22	of section 103 d. of the Atomic Energy Act of 1954 (42.
23	U.S.C. 2133(d)) and the second sentence of section 104
24	d. of that Act (42 U.S.C. 2134(d)) shall not apply to an
25	entity described in subsection (b) of this section if the Nu-

clear Regulatory Commission determines that issuance of the applicable license to that entity is not inimical to— 3 (1) the common defense and security; or 4 (2) the health and safety of the public. 5 (b) Entities Described in this subsection is a corporation or other entity that is 6 7 owned, controlled, or dominated by— 8 (1) the government of— 9 (A) a country that is a member of the Group of Seven as of November 25, 2020, 10 11 which includes the United Kingdom, Germany, 12 Canada, Japan, France, and Italy; or 13 (B) the Republic of Korea; 14 (2) a corporation that is incorporated in a 15 country described in paragraph (1); or 16 (3) an alien who is a national of a country de-17 scribed in paragraph (1). 18 (c) TECHNICAL AMENDMENT.—Section 103 d. of the Atomic Energy Act of 1954 (42 U.S.C. 2133(d)) is 19 amended, in the second sentence, by striking "any any" 20 and inserting "any". 21 22 (d) SAVINGS CLAUSE.—Nothing in this section af-23 fects the requirements of section 721 of the Defense Pro-

duction Act of 1950 (50 U.S.C. 4565).

1	SEC. 5. LICENSING CONSIDERATIONS RELATING TO USE OF
2	NUCLEAR ENERGY FOR NONELECTRIC APPLI-
3	CATIONS.
4	(a) In General.—Not later than 1 year after the
5	date of enactment of this Act, the Nuclear Regulatory
6	Commission (in this section referred to as the "Commis-
7	sion") shall submit to the Committee on Energy and Com-
8	merce of the House of Representatives and the Committee
9	on Environment and Public Works of the Senate a report
10	addressing any unique licensing issues or requirements re-
11	lating to—
12	(1) the flexible operation of advanced nuclear
13	reactors, such as ramping power output and switch-
14	ing between electricity generation and nonelectric
15	applications;
16	(2) the use of advanced nuclear reactors exclu-
17	sively for nonelectric applications; and
18	(3) the collocation of advanced nuclear reactors
19	with industrial 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;
25	(4) the industrial, chemical, and medical sec-
26	tors;

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

1	(i) within the existing regulatory
2	framework;
3	(ii) through the technology-inclusive,
4	regulatory framework to be established
5	under section 103(a)(4) of the Nuclear En-
6	ergy Innovation and Modernization Act (42
7	U.S.C. 2133 note; Public Law 115–439);
8	or
9	(iii) through a new rulemaking;
10	(C) the extent to which Commission action
11	is needed to implement any matter described in
12	the report; and
13	(D) cost estimates, proposed budgets, and
14	proposed timeframes for implementing risk-in-
15	formed and performance-based regulatory guid-
16	ance for licensing advanced nuclear reactors for
17	nonelectric applications.
18	SEC. 6. REPORT ON ADVANCED METHODS OF MANUFAC-
19	TURING AND CONSTRUCTION FOR NUCLEAR
20	ENERGY PROJECTS.
21	(a) In General.—Not later than 180 days after the
22	date of enactment of this Act, the Nuclear Regulatory
23	Commission (in this section referred to as the "Commis-
24	sion") shall submit to the Committee on Energy and Com-
25	merce of the House of Representatives and the Committee

1	on Environment and Public Works of the Senate a report
2	on manufacturing and construction for nuclear energy
3	projects.
4	(b) STAKEHOLDER INPUT.—In developing the report,
5	the Commission shall seek input from—
6	(1) the Secretary of Energy;
7	(2) the nuclear energy industry;
8	(3) the National Laboratories;
9	(4) institutions of higher education;
10	(5) nuclear and manufacturing technology de-
11	velopers;
12	(6) the manufacturing and construction indus-
13	tries;
14	(7) standards development organizations;
15	(8) labor unions;
16	(9) nongovernmental organizations; and
17	(10) other public stakeholders.
18	(c) Contents.—
19	(1) In general.—The report shall—
20	(A) examine any unique licensing issues or
21	requirements relating to the use of—
22	(i) advanced manufacturing tech-
23	niques; and
24	(ii) advanced construction techniques;
25	(B) examine—

1	(i) the requirements for nuclear-grade
2	components in manufacturing and con-
3	struction for nuclear energy projects;
4	(ii) opportunities to use standard ma-
5	terials, parts, or components in manufac-
6	turing and construction for nuclear energy
7	applications; and
8	(iii) opportunities to use standard ma-
9	terials that are in compliance with existing
10	codes to provide acceptable approaches to
11	support or encapsulate new materials that
12	do not yet have applicable codes;
13	(C) identify safety aspects of advanced
14	manufacturing processes and advanced con-
15	struction techniques that are not addressed by
16	existing codes and standards, so that generic
17	guidance may be updated or created as nec-
18	essary by the Commission;
19	(D) identify options for addressing the
20	issues, requirements, and opportunities exam-
21	ined under subparagraphs (A) and (B)—
22	(i) within the existing regulatory
23	framework; or
24	(ii) through a new rulemaking; and

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1	(E) 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 advanced manufacturing and
9	construction of nuclear energy projects.
10	SEC. 7. RISK POOLING PROGRAM ASSESSMENT.
11	(a) Report.—Not later than 1 year after the date
12	of enactment of this Act, the Comptroller General shall
13	carry out a review of, and submit to the Committee or
14	Energy and Commerce of the House of Representatives
15	and the Committee on Environment and Public Works of
16	the Senate a report on, the Secretary of Energy's actions
17	with respect to the program described in section 934(e)
18	of the Energy Independence and Security Act of 2007 (42
19	U.S.C. 17373(e)).
20	(b) CONTENTS.—The report described in subsection
21	(a) shall include—
22	(1) an evaluation of the Secretary of Energy's

actions to determine the risk-informed assessment

formula under section 934(e)(2)(C) of the Energy

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Independence and Security Act of 2007 (42 U.S.C. 17373(e)(2)(C)); and

(2) a review of the Secretary of Energy's methodology to collect information to determine and implement the formula.

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