114TH CONGRESS 2D Session

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To provide for restrictions related to nuclear cooperation with the People's Republic of China, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. MARKEY (for himself and Mr. RUBIO) introduced the following bill; which was read twice and referred to the Committee on ______

A BILL

To provide for restrictions related to nuclear cooperation with the People's Republic of China, 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 "U.S.-China Nuclear

5 Cooperation and Nonproliferation Act of 2016".

6 SEC. 2. FINDINGS.

7 Congress makes the following findings:

8 (1) A 2001 report from the Department of De9 fense found that "China supplied Pakistan with nu10 clear material and expertise and has provided critical

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assistance in the production of Pakistan's nuclear
 facilities." China is also alleged to have provided
 Pakistan with 50 kilograms of highly enriched ura nium, and designs for a nuclear weapon.

5 (2) An unclassified 2011 report to Congress 6 from the Director of National Intelligence found 7 that Chinese entities "continue to supply a variety 8 of missile-related items to multiple customers, in-9 cluding Iran and Pakistan." Previous reports from 10 the Director of National Intelligence have confirmed 11 that Chinese entities have provided support for the 12 missile program of North Korea.

13 (3) China has failed to bring to justice Li 14 Fangwei, also known as Karl Lee, who has been in-15 dicted in the United States on charges of providing 16 sensitive missile technology to Iran. According to a 17 report from the Congressional Research Service, 18 "concerns persist about Chinese willingness as well 19 as ability to detect and prevent illicit transfers" of 20 dual-use and sensitive nuclear and missile items.

(4) At a May 12, 2015, hearing, members of
the Committee on Foreign Relations of the Senate
raised concerns that China may have diverted reactor cooling pumps produced by Curtiss-Wright Corporation to its nuclear submarine program, bol-

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stering the stealth of its submarines, and violating
 the Previous Nuclear Cooperation Agreement (as
 that term is defined in section 3(3)).

4 (5) China has announced plans to provide Paki5 stan with additional nuclear reactors, beyond those
6 it had already agreed to construct prior to 2004, in
7 violation of its 2004 commitments to the Nuclear
8 Suppliers Group (NSG).

9 (6) Five members of the Chinese People's Lib-10 eration Army have been indicted in the United 11 States on charges of hacking into the computer net-12 works of Westinghouse and stealing United States 13 intellectual property, including the design of nuclear 14 power plants.

15 (7) China has announced plans to export nu-16 clear power plants based on technology acquired 17 from Westinghouse, one of China's primary commer-18 cial partners under its current and previous nuclear 19 cooperation agreements with the Unites States. 20 While China has committed not to export United 21 States-origin technology without a marketing license 22 from Westinghouse, there is no definition of "United 23 States-origin technology" in the Federal Register, 24 complicating United States enforcement of this pro-25 vision.

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(8) China General Nuclear Power Company, a
 state-owned nuclear power provider, has been in dicted in the United States on charges of unlawfully
 producing special nuclear material outside the
 United States without the authorization of the De partment of Energy.

7 (9) China's plans to reprocess United States-or8 igin spent fuel raise the risk that China could divert
9 plutonium to military purposes, enabling it to
10 produce additional nuclear weapons that threaten
11 the United States and its allies.

(10) Secretary of Energy Ernest Moniz, in Beijing on March 17, 2016, told the Wall Street Journal that the United States does not "support largescale reprocessing" and China's plan to proceed with
a commercial-scale reprocessing facility "certainly
isn't a positive in terms of nonproliferation".

18 (11) China's pursuit of commercial plutonium 19 reprocessing will increase the likelihood that Japan 20 expands its commercial reprocessing program and 21 that South Korea will increase efforts to initiate a 22 similar program of its own. Growing stockpiles of 23 plutonium in East Asia increase the chances of mili-24 tary diversion and theft, raising the risk of nuclear 25 proliferation, nuclear terrorism, and interstate nu-

1	clear conflict. It is in the interest of the United
2	States to prevent the stockpiling of plutonium in
3	East Asia.
4	SEC. 3. DEFINITIONS.
5	In this Act:
6	(1) APPROPRIATE CONGRESSIONAL COMMIT-
7	TEES.—The term "appropriate congressional com-
8	mittees" means—
9	(A) the Committee on Foreign Relations
10	and the Select Committee on Intelligence of the
11	Senate; and
12	(B) the Committee on Foreign Affairs and
13	the Permanent Select Committee on Intelligence
14	of the House of Representatives.
15	(2) CHINA.—The term "China" means the Peo-
16	ple's Republic of China.
17	(3) CHINESE PERSON.—The term "Chinese
18	person" means—
19	(A) an individual who is a citizen or na-
20	tional of the People's Republic of China; or
21	(B) an entity organized under the laws of
22	the People's Republic of China or otherwise
23	subject to the jurisdiction of the Government of
24	the People's Republic of China.

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(4) PREVIOUS NUCLEAR COOPERATION AGREE MENT.—The term "Previous Nuclear Cooperation
 Agreement" means the Agreement for Cooperation
 Between the Government of the United States of
 America and the Government of the People's Repub lic of China Concerning Peaceful Uses of Nuclear
 Energy, concluded July 23, 1985.

8 (5) UNITED STATES.—The term "United 9 States" means the several States, the District of Co-10 lumbia, and any territory or possession of the 11 United States.

12 PERSON.—The (6)UNITED STATES term "United States person" means any United States 13 14 citizen, any alien admitted to the United States for 15 permanent residence, any entity organized under the 16 laws of the United States or any jurisdiction within 17 the United States, including a foreign branch of 18 such an entity.

(7) UNITED STATES-CHINA NUCLEAR COOPERATION AGREEMENT.—The term "United States-China
Nuclear Cooperation Agreement" means the Agreement for Cooperation Between the United States
and the Government of the People's Republic of
China that was submitted to the appropriate congressional committees under section 123 of the

Atomic Energy Act of 1954 (42 U.S.C. 2153) on
 April 21, 2015, and which entered into force on Oc tober 29, 2015.

4 SEC. 4. NOTICE REGARDING TRANSFERS OF NUCLEAR 5 TECHNOLOGY TO CHINA.

6 The Secretary of Energy shall, not later than 5 days 7 after receiving an application for the proposed transfer of 8 nuclear technology to China under section 57 b. of the 9 Atomic Energy Act of 1954 (42 U.S.C. 2077(b)), includ-10 ing an application for specific authorization to be provided 11 for in a subsequent arrangement under section 131 of that 12 Act (42 U.S.C. 2160), notify the appropriate congres-13 sional committees of the receipt of such application. The notice shall describe with particularity the items contained 14 15 in the proposed transfer of nuclear technology.

16 SEC. 5. ADDITIONAL REQUIREMENT FOR APPROVAL OF RE-

17 TRANSFERS OF UNITED STATES-ORIGIN18 TECHNOLOGY.

(a) IN GENERAL.—Any request for authorization to
transfer United States-origin technology (as defined pursuant to subsection (b)) from China, or with the significant participation of Chinese persons not located in the
United States, to a country other than the United States
or China, shall be subject to the authorization requirements in section 57 b. of the Atomic Energy Act of 1954

(42 U.S.C. 2077(b)). Furthermore, such requests for au thorization shall be denied unless the applicant can dem onstrate—

4 (1) significant ongoing participation by United
5 States persons in the transfer;

6 (2) in the case of nuclear reactors and reactor
7 components, significant United States content in8 volved in, or attendant to, the proposed transfer;
9 and

(3) in the case of the transfer of technology developed with the participation of the United States
Government, timely and adequate reimbursement of
the United States Government for any grants or
loans provided by the United States Government to
entities involved in the development of the technology.

17 (b) DEFINITION OF UNITED STATES-ORIGIN TECH-18 NOLOGY.—Not later than 90 days after the date of the enactment of this Act, the Secretary of Energy shall issue 19 20 a definition of items covered by the term "United States-21 origin technology" in subsection (a), including items de-22 rived from such technology. The term shall include items 23 developed by United States persons or persons subject to the jurisdiction of the United States, and items developed 24

with the participation of the United States Government,
 including large, passive light water reactors.

3 SEC. 6. STATEMENT OF POLICY ON CHINA-PAKISTAN NU-4 CLEAR COOPERATION.

5 It is the policy of the United States—

6 (1) to oppose the provision by China of assist-7 ance in the construction of any nuclear reactor in 8 Pakistan other than the first 2 reactors constructed 9 at Chasma, which were consistent with the condi-10 tions concerning China's participation in the Nuclear 11 Suppliers Group; and

(2) to assist Pakistan with the acquisition and
development of sufficient electrical power to meet its
domestic requirements for electrical power through
means other than nuclear power.

16 SEC. 7. ADDITIONAL NOTIFICATION REQUIREMENTS.

17 (a) DETERMINATION REQUIRED.—Not later than 18 180 days after the date of the enactment of this Act, and 19 annually thereafter, the President, in consultation with the 20Secretary of State, the Secretary of Energy, the Secretary 21 of Defense, and the Director of National Intelligence, shall 22 determine whether the Government of China, persons act-23 ing on behalf of the Government of China, or Chinese per-24 sons have, since the entry into force of the United States-25 China Nuclear Cooperation Agreement—

1 (1) retransferred any United States nuclear 2 items to a third country without the permission of 3 the United States Government; (2) diverted or attempted to divert United 4 5 States nuclear items to military use; 6 (3) stolen or attempted to steal United States 7 nuclear items; 8 (4) failed to undertake measures necessary to 9 prevent transfers of goods, services, and technology 10 described in section 2(a) of the Iran, North Korea, 11 and Syria Nonproliferation Act (Public Law 106– 12 178; 50 U.S.C. 1701 note), or to make substantial 13 progress in preventing such transfers; 14 (5) failed to undertake measures to enforce the 15 sanctions provided for in United Nations Security 16 Council Resolution 2270, adopted on March 2, 2016, 17 and previous relevant resolutions recalled in Resolu-18 tion 2270;19 (6) refused to adhere to the Nuclear Suppliers 20 Group guidelines regarding the export of any new ci-21 vilian nuclear reactors, regardless of any prior or fu-22 ture contract obligations; or 23 (7) otherwise violated the terms and conditions

24 of the United States-China Nuclear Cooperation25 Agreement, or any authorization issued by the

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1	United States Government concerning transfers of
2	United States nuclear items.
3	(b) SUSPENSION OF COOPERATION.—If the President
4	makes a determination described in subsection (a), the
5	President shall immediately suspend all cooperation under
6	the United States-China Nuclear Cooperation Agreement,
7	including any transfers of nuclear technology or materials,
8	until the President submits to the appropriate congres-
9	sional committees—
10	(1) a plan of corrective action to—
11	(A) address the activity described in sub-
12	section (a);
13	(B) mitigate any damage to the national
14	security of the United States because of such
15	activity; and
16	(C) prevent further such activity; and
17	(2) a certification to the appropriate congres-
18	sional committees that the plan described in para-
19	graph (1) is being implemented.
20	(c) DEFINITION.—In this section, the term "United
21	States nuclear items" means any items that are trans-
22	ferred to China under—
23	(1) the United States-China Nuclear Coopera-
24	tion Agreement;

1 (2) section 57b. of the Atomic Energy Act of 2 1954 (42 U.S.C. 2077(b)); or

3 (3) part 110 of title 10, Code of Federal Regu-4 lations.

5 SEC. 8. IMPLEMENTATION OF AGREED MINUTE.

6 The President may not bring into effect the proce-7 dures described in the section of the Agreed Minute to 8 the United States-China Nuclear Cooperation Agreement 9 that appear under the heading "Technology and Informa-10 tion Exchanges" unless the President, at least 60 days 11 of continuous session of Congress before those procedures 12 become effective—

(1) provides to the appropriate congressional
committees the details concerning the implementation of those provisions; and

16 (2) certifies to the appropriate congressional 17 committees that those procedures protect the na-18 tional security of the United States to an extent that 19 is equal to or greater than those procedures provided 20 for under part 810 of title 10, Code of Federal Reg-21 ulations.

22 SEC. 9. REPROCESSING UNDER THE UNITED STATES-CHINA 23 NUCLEAR COOPERATION AGREEMENT.

(a) SENSE OF CONGRESS.—It is the sense of Con-25 gress that the United States should encourage countries

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in East Asia to forgo the commencement of new spent fuel
 reprocessing activities, as part of a mutual effort to pre vent the increased or expanded stockpiling of separated
 plutonium in the region.

5 (b) IMPLEMENTATION OF REPROCESSING CONSENT RIGHTS UNDER AGREEMENT.—The President shall not 6 7 agree to the reprocessing, recycling, or other alteration in 8 form or content of nuclear material, as described in Article 9 6.2 of the United States-China Nuclear Cooperation 10 Agreement, at any individual facility to which the International Atomic Energy Agency (IAEA) safeguards are 11 not applied, unless, for each proposed facility at which 12 13 such activity will take place, the President certifies to the 14 appropriate congressional committees that—

15 (1) the President has made a formal request to16 the IAEA to apply safeguards to the facility;

17 (2) the IAEA has refused the request described18 in paragraph (1); and

19 (3) the arrangements and procedures under
20 which such reprocessing, recycling, or other alter21 ation in form or content will occur—

(A) include a requirement that nuclear material transferred pursuant to the United
States-China Nuclear Cooperation Agreement

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1	and nuclear material used in or produced
2	through the use of such material—
3	(i) not be commingled with any other
4	nuclear material;
5	(ii) be clearly marked as United
6	States-obligated nuclear material;
7	(iii) be stored in separate facilities
8	from any other nuclear material; and
9	(iv) be available for inspection imme-
10	diately and without prior notice upon re-
11	quest by the IAEA or either party to the
12	agreement; and
13	(B) are sufficient to detect in a timely
14	manner—
15	(i) the diversion for military purposes
16	of nuclear material transferred pursuant to
17	the United States-China Nuclear Coopera-
18	tion Agreement and nuclear material used
19	in or produced through the use of such
20	material; and
21	(ii) the transfer to facilities or loca-
22	tions not agreed to by the United States of
23	nuclear material transferred pursuant to
24	the United States-China Nuclear Coopera-
25	tion Agreement and nuclear material used

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1	in or produced through the use of such
2	material.
3	(c) NOTIFICATION REQUIRED.—If the President
4	issues a certification described in subsection (b), the Presi-
5	dent shall include with that certification a detailed descrip-
6	tion of—
7	(1) the facility at which the reprocessing, recy-
8	cling, or other alteration in form and content will
9	take place;
10	(2) the safeguards applied to the facility;
11	(3) the measures that will be undertaken to se-
12	cure and prevent the theft or diversion to military
13	purposes of any separated plutonium that will result
14	from the activities at the facility;
15	(4) the amounts of materials to be processed at
16	the facility;
17	(5) the amount of processed fissile material
18	that might be stockpiled as a result of the activities
19	at the facility, and the estimated time that it may
20	be stockpiled prior to its civilian use in a nuclear re-
21	actor; and
22	(6) the risks to United States national security
23	posed by the potential diversion of nuclear material
24	at the facility.

1 SEC. 10. REPORTS.

2 (a) INITIAL REPORT.—

3	(1) IN GENERAL.—No later than 90 days after
4	the date of the enactment of this Act, the Secretary
5	of State, with the concurrence of the Director of Na-
6	tional Intelligence, shall submit to the appropriate
7	congressional committees a report on China's history
8	of compliance with the peaceful use and non-pro-
9	liferation provisions of the Previous Nuclear Co-
10	operation Agreement.
11	(2) ELEMENTS.—The report required under
12	paragraph (1) shall include—
13	(A) a detailed examination of every sus-
14	pected or alleged violation of such previous
15	agreement;
16	(B) the response by China to any inquiries
17	by the United States regarding any such sus-
18	pected or alleged violations of the previous
19	agreement;
20	(C) an assessment of the likelihood of fu-
21	ture violations under the terms of the United
22	States-China Nuclear Cooperation Agreement;
23	and
24	(D) an assessment of the potential advan-
25	tages that a large civil nuclear infrastructure or
26	program may provide the People's Republic of

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1	China as it seeks to meet its future nuclear
2	weapons requirements.
3	(b) ANNUAL INTELLIGENCE REPORT.—
4	(1) IN GENERAL.—Not later than April 15,
5	2017, and annually thereafter, the Director of Na-
6	tional Intelligence shall submit to the appropriate
7	congressional committees a report on the status of
8	the United States-China Nuclear Cooperation Agree-
9	ment and compliance by China with the agreement.
10	(2) ELEMENTS.—The report required under
11	paragraph (1) shall include, at a minimum—
12	(A) a detailed examination of every sus-
13	pected or alleged violation of the Agreement by
14	the People's Republic of China that may have
15	occurred during the prior calendar year;
16	(B) the response by China to any inquiries
17	by the United States regarding any such sus-
18	pected or alleged violations;
19	(C) an accounting of the specific roles
20	played in the civil and military nuclear pro-
21	grams of the People's Republic of China by all
22	Chinese persons visiting United States nuclear
23	labs and facilities;
24	(D) an assessment of whether the People's
25	Republic of China or any entity acting on its

1	behalf has targeted and United States nuclear-
2	related private-sector or governmental entities,
3	enterprises, or assets for any form of cyber
4	trespass, theft, or attack, or has taken specific
5	actions pursuant to such targeting by any enti-
6	ty;
7	(E) an assessment of the risks of diversion
8	of special nuclear material transferred pursuant
9	to this Agreement, the likely consequences of
10	such diversion, and steps taken to avert any po-
11	tential diversion;
12	(F) an assessment of the potential military
13	utility of diverted civil nuclear technology;
14	(G) an assessment of any civil and criminal
15	law enforcement actions taken by the People's
16	Republic of China's against any entities or indi-
17	viduals within its government or its jurisdiction
18	that have—
19	(i) violated non-proliferation or peace-
20	ful use requirements of this or any other
21	bilateral or multilateral nuclear agreement
22	to which People's Republic of China is a
23	party;
24	(ii) committed cyber trespass, theft, or
25	attack on any United States nuclear-re-

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lated private sector or governmental enti-
ties, enterprises, or assets; or
(iii) conducted cyber trespass or cyber
exploitation against any private sector nu-
clear entities, enterprises, or assets for
commercial gain; and
(H) a description of the extent to which
the Government of the People's Republic of
China has honored United States requests for
enforcement of United States legal action
against any entities or individuals described in
subparagraph (G), including requests for extra-
dition by the United States.
(c) FORM.—The reports required under subsections
(a) and (b) may be submitted in classified form, but shall
also contain an unclassified executive summary and may
contain an unclassified annex.
(d) ANNUAL EXPORTS REPORT.—Not later than
April 15, 2017, and annually thereafter, the President
shall submit to the appropriate congressional committees
a report that—
(1) identifies all exports licenses issued in the
previous calendar year pursuant to the United
States-China Nuclear Cooperation Agreement, in-
cluding at a minimum, the license applicant, pro-

posed end user, items licensed, value, and term of
 the license; and
 (2) assesses China's progress in strengthening,
 implementing, and enforcing laws to ensure re stricted dual-use technology is not transferred to
 countries of proliferation concern.