1

TITLE VI—NUCLEAR MATTERS

Subtitle A—Price-Anderson Act Amendments

Subtitle B—General Nuclear Matters

Subtitle C—Next Generation Nuclear Plant Project

Subtitle D—Nuclear Security

TITLE VI—NUCLEAR MATTERS

Subtitle A—Price-Anderson Act Amendments

SEC. 601. SHORT TITLE.

This subtitle may be cited as the ''Price-Anderson Amendments Act of 2005''.

SEC. 602. EXTENSION OF INDEMNIFICATION AUTHORITY.

(a) INDEMNIFICATION OF NUCLEAR REGULATORY COMMISSION LICENSEES.—Section 170 c. of the Atomic Energy Act of 1954 (42 U.S.C. 2210(c)) is amended—

(1) in the subsection heading, by striking ''LICENSES'' and inserting ''LICENSEES''; and

(2) by striking ''December 31, 2003'' each place it appears and inserting ''December 31, 2025''.

(b) INDEMNIFICATION OF DEPARTMENT CONTRACTORS.—Section 170 d.(1)(A) of the Atomic Energy Act of 1954 (42 U.S.C. 2210(d)(1)(A)) is amended by striking ''December 31, 2006'' and inserting ''December 31, 2025''.

(c) INDEMNIFICATION OF NONPROFIT EDUCATIONAL INSTITUTIONS.—Section 170 k. of the Atomic Energy Act of 1954 (42 U.S.C. 2210(k)) is amended by striking ''Au-

gust 1, 2002'' each place it appears and inserting ''December 31, 2025''.

SEC. 603. MAXIMUM ASSESSMENT.

Section 170 of the Atomic Energy Act of 1954 (42 U.S.C. 2210) is amended—

(1) in the second proviso of the third sentence of subsection b.(1)—

(A) by striking ''$63,000,000'' and inserting ''$95,800,000''; and

(B) by striking ''$10,000,000 in any 1 year'' and inserting ''$15,000,000 in any 1 year (subject to adjustment for inflation under subsection t.)''; and

(2) in subsection t.(1)—

(A) by inserting ''total and annual'' after ''amount of the maximum'';

(B) by striking ''the date of the enactment of the Price-Anderson Amendments Act of 1988'' and inserting ''August 20, 2003''; and

(C) in subparagraph (A), by striking ''such date of enactment'' and inserting ''August 20, 2003''.

SEC. 604. DEPARTMENT LIABILITY LIMIT.

(a) INDEMNIFICATION OF DEPARTMENT CONTRACTORS.—Section 170 d. of the Atomic Energy Act of 1954

(42 U.S.C. 2210(d)) is amended by striking paragraph (2) and inserting the following:

''(2) In an agreement of indemnification entered into under paragraph (1), the Secretary—

''(A) may require the contractor to provide and maintain financial protection of such a type and in such amounts as the Secretary shall determine to be appropriate to cover public liability arising out of or in connection with the contractual activity; and

''(B) shall indemnify the persons indemnified against such liability above the amount of the financial protection required, in the amount of $10,000,000,000 (subject to adjustment for inflation under subsection t.), in the aggregate, for all persons indemnified in connection with the contract and for each nuclear incident, including such legal costs of the contractor as are approved by the Secretary.''.

(b) CONTRACT AMENDMENTS.—Section 170 d. of the Atomic Energy Act of 1954 (42 U.S.C. 2210(d)) is further amended by striking paragraph (3) and inserting the following—

''(3) All agreements of indemnification under which the Department of Energy (or its predecessor agencies) may be required to indemnify any person under this section shall be deemed to be amended, on the date of enact-

ment of the Price-Anderson Amendments Act of 2005, to reflect the amount of indemnity for public liability and any applicable financial protection required of the contractor under this subsection.''.

(c) LIABILITY LIMIT.—Section 170 e.(1)(B) of the Atomic Energy Act of 1954 (42 U.S.C. 2210(e)(1)(B)) is amended—

(1) by striking ''the maximum amount of financial protection required under subsection b. or''; and

(2) by striking ''paragraph (3) of subsection d., whichever amount is more'' and inserting ''paragraph (2) of subsection d.''.

SEC. 605. INCIDENTS OUTSIDE THE UNITED STATES.

(a) AMOUNT OF INDEMNIFICATION.—Section 170 d.(5) of the Atomic Energy Act of 1954 (42 U.S.C. 2210(d)(5)) is amended by striking ''$100,000,000'' and inserting ''$500,000,000''.

(b) LIABILITY LIMIT.—Section 170 e.(4) of the Atomic Energy Act of 1954 (42 U.S.C. 2210(e)(4)) is amended by striking ''$100,000,000'' and inserting ''$500,000,000''.

SEC. 606. REPORTS.

Section 170 p. of the Atomic Energy Act of 1954 (42 U.S.C. 2210(p)) is amended by striking ''August 1, 1998'' and inserting ''December 31, 2021''.

SEC. 607. INFLATION ADJUSTMENT.

Section 170 t. of the Atomic Energy Act of 1954 (42 U.S.C. 2210(t)) is amended—

(1) by redesignating paragraph (2) as paragraph (3); and

(2) by inserting after paragraph (1) the following:

''(2) The Secretary shall adjust the amount of indemnification provided under an agreement of indemnification under subsection d. not less than once during each 5-year period following July 1, 2003, in accordance with the aggregate percentage change in the Consumer Price Index since—

''(A) that date, in the case of the first adjustment under this paragraph; or

''(B) the previous adjustment under this paragraph.''.

SEC. 608. TREATMENT OF MODULAR REACTORS.

Section 170 b. of the Atomic Energy Act of 1954 (42 U.S.C. 2210(b)) is amended by adding at the end the following:

''(5)(A) For purposes of this section only, the Commission shall consider a combination of facilities described in subparagraph (B) to be a single facility having a rated capacity of 100,000 electrical kilowatts or more.

''(B) A combination of facilities referred to in subparagraph (A) is 2 or more facilities located at a single site, each of which has a rated capacity of 100,000 electrical kilowatts or more but not more than 300,000 electrical kilowatts, with a combined rated capacity of not more than 1,300,000 electrical kilowatts.''.

SEC. 609. APPLICABILITY.

The amendments made by sections 603, 604, and 605 do not apply to a nuclear incident that occurs before the date of the enactment of this Act.

SEC. 610. CIVIL PENALTIES.

(a) REPEAL OF AUTOMATIC REMISSION.—Section 234A b.(2) of the Atomic Energy Act of 1954 (42 U.S.C. 2282a(b)(2)) is amended by striking the last sentence.

(b) LIMITATION FOR NOT-FOR-PROFIT INSTITUTIONS.—Subsection d. of section 234A of the Atomic Energy Act of 1954 (42 U.S.C. 2282a(d)) is amended to read as follows:

''d.(1) Notwithstanding subsection a., in the case of any not-for-profit contractor, subcontractor, or supplier, the total amount of civil penalties paid under subsection a. may not exceed the total amount of fees paid within any 1-year period (as determined by the Secretary) under the contract under which the violation occurs.

''(2) For purposes of this section, the term 'not-for-profit' means that no part of the net earnings of the contractor, subcontractor, or supplier inures to the benefit of any natural person or for-profit artificial person.''.

(c) EFFECTIVE DATE.—The amendments made by this section shall not apply to any violation of the Atomic Energy Act of 1954 (42 U.S.C. 2011 et seq.) occurring under a contract entered into before the date of enactment of this section.

[SEC. 611. SUBROGATION.

SEC. 621. LICENSES.

Section 103 c. of the Atomic Energy Act of 1954 (42 U.S.C. 2133(c)) is amended by inserting ''from the authorization to commence operations'' after ''forty years''.

SEC. 622. NUCLEAR REGULATORY COMMISSION SCHOLARSHIP AND FELLOWSHIP PROGRAM.

Chapter 19 of the Atomic Energy Act of 1954 is amended by inserting after section 242 (42 U.S.C. 2015a) the following:

''SEC. 243. SCHOLARSHIP AND FELLOWSHIP PROGRAM.

''a. SCHOLARSHIP PROGRAM.—To enable students to study, for at least 1 academic semester or equivalent term, science, engineering, or another field of study that the Nuclear Regulatory Commission determines is in a critical skill area related to the regulatory mission of the Nuclear

Regulatory Commission, the Nuclear Regulatory Commission may carry out a program to—

''(1) award scholarships to undergraduate students who—

''(A) are United States citizens; and

''(B) enter into an agreement under subsection c. to be employed by the Nuclear Regulatory Commission in the area of study for which the scholarship is awarded.

''b. FELLOWSHIP PROGRAM.—To enable students to pursue education in science, engineering, or another field of study that the Nuclear Regulatory Commission determines is in a critical skill area related to its regulatory mission, in a graduate or professional degree program offered by an institution of higher education in the United States, the Nuclear Regulatory Commission may carry out a program to—

''(1) award fellowships to graduate students who—

''(A) are United States citizens; and

''(B) enter into an agreement under subsection c. to be employed by the Nuclear Regulatory Commission in the area of study for which the fellowship is awarded.

''c. REQUIREMENTS.—

''(1) IN GENERAL.—As a condition of receiving a scholarship or fellowship under subsection a. or b., a recipient of the scholarship or fellowship shall enter into an agreement with the Nuclear Regulatory Commission under which, in return for the assistance, the recipient shall—

''(A) maintain satisfactory academic progress in the studies of the recipient, as determined by criteria established by the Nuclear Regulatory Commission;

''(B) agree that failure to maintain satisfactory academic progress shall constitute grounds on which the Nuclear Regulatory Commission may terminate the assistance;

''(C) on completion of the academic course of study in connection with which the assistance was provided, and in accordance with criteria established by the Nuclear Regulatory Commission, engage in employment by the Nuclear Regulatory Commission for a period specified by the Nuclear Regulatory Commission, that shall be not less than 1 time and not more than 3 times the period for which the assistance was provided; and

"(D) if the recipient fails to meet the requirements of subparagraph (A), (B), or (C), reimburse the United States Government for—

"(i) the entire amount of the assistance provided the recipient under the scholarship or fellowship; and

"(ii) interest at a rate determined by the Nuclear Regulatory Commission.

"(2) WAIVER OR SUSPENSION.—The Nuclear Regulatory Commission may establish criteria for the partial or total waiver or suspension of any obligation of service or payment incurred by a recipient of a scholarship or fellowship under this section.

"d. COMPETITIVE PROCESS.—Recipients of scholarships or fellowships under this section shall be selected through a competitive process primarily on the basis of academic merit and such other criteria as the Nuclear Regulatory Commission may establish, with consideration given to financial need and the goal of promoting the participation of individuals identified in section 33 or 34 of the Science and Engineering Equal Opportunities Act (42 U.S.C. 1885a, 1885b).

"e. DIRECT APPOINTMENT.—The Nuclear Regulatory Commission may appoint directly, with no further

competition, public notice, or consideration of any other potential candidate, an individual who has—

''(1) received a scholarship or fellowship awarded by the Nuclear Regulatory Commission under this section; and

''(2) completed the academic program for which the scholarship or fellowship was awarded.''.

SEC. 623. COST RECOVERY FROM GOVERNMENT AGENCIES.

Section 161 w. of the Atomic Energy Act of 1954 (42 U.S.C. 2201(w)) is amended—

(1) by striking ''for or is issued'' and all that follows through ''1702'' and inserting ''to the Commission for, or is issued by the Commission, a license or certificate'';

(2) by striking ''483a'' and inserting ''9701''; and

(3) by striking '', of applicants for, or holders of, such licenses or certificates''.

SEC. 624. ELIMINATION OF PENSION OFFSET FOR CERTAIN REHIRED FEDERAL RETIREES.

(a) IN GENERAL.—Chapter 14 of the Atomic Energy Act of 1954 (42 U.S.C. 2201 et seq.) is amended by adding at the end the following:

"SEC. 170C. ELIMINATION OF PENSION OFFSET FOR CERTAIN REHIRED FEDERAL RETIREES.

''a. IN GENERAL.—The Nuclear Regulatory Commission may waive the application of section 8344 or 8468 of title 5, United States Code, on a case-by-case basis for employment of an annuitant—

''(1) in a position of the Nuclear Regulatory Commission for which there is exceptional difficulty in recruiting or retaining a qualified employee; or

''(2) when a temporary emergency hiring need exists.

''b. PROCEDURES.—The Nuclear Regulatory Commission shall prescribe procedures for the exercise of authority under this section, including—

''(1) criteria for any exercise of authority; and

''(2) procedures for a delegation of authority.

''c. EFFECT OF WAIVER.—An employee as to whom a waiver under this section is in effect shall not be considered an employee for purposes of subchapter II of chapter 83, or chapter 84, of title 5, United States Code.''.

(b) TABLE OF SECTIONS AMENDMENT.—The table of sections for chapter 14 of the Atomic Energy Act of 1954 is amended by adding at the end the following new item:

''Sec. 170C. Elimination of pension offset for certain rehired Federal retirees.''.

SEC. 625. ANTITRUST REVIEW.

Section 105 c. of the Atomic Energy Act of 1954 (42 U.S.C. 2135(c)) is amended by adding at the end the following:

''(9) APPLICABILITY.—This subsection does not apply to an application for a license to construct or operate a utilization facility or production facility under section 103 or 104 b. that is filed on or after the date of enactment of this paragraph.''.

SEC. 626. DECOMMISSIONING.

Section 161 i. of the Atomic Energy Act of 1954 (42 U.S.C. 2201(i)) is amended—

(1) by striking ''and (3)'' and inserting ''(3)''; and

(2) by inserting before the semicolon at the end the following: '', and (4) to ensure that sufficient funds will be available for the decommissioning of any production or utilization facility licensed under section 103 or 104 b., including standards and restrictions governing the control, maintenance, use, and disbursement by any former licensee under this Act that has control over any fund for the decommissioning of the facility''.

SEC. 627. LIMITATION ON LEGAL FEE REIMBURSEMENT.

Title II of the Energy Reorganization Act of 1974 (42 U.S.C. 5841 et seq.) is amended by adding at the end the following new section:

''LIMITATION ON LEGAL FEE REIMBURSEMENT

''SEC. 212. The Department of Energy shall not, except as required under a contract entered into before the date of enactment of this section, reimburse any contractor or subcontractor of the Department for any legal fees or expenses incurred with respect to a complaint subsequent to—

''(1) an adverse determination on the merits with respect to such complaint against the contractor or subcontractor by the Director of the Department of Energy's Office of Hearings and Appeals pursuant to part 708 of title 10, Code of Federal Regulations, or by a Department of Labor Administrative Law Judge pursuant to section 211 of this Act; or

''(2) an adverse final judgment by any State or Federal court with respect to such complaint against the contractor or subcontractor for wrongful termination or retaliation due to the making of disclosures protected under chapter 12 of title 5, United States Code, section 211 of this Act, or any comparable State law,

unless the adverse determination or final judgment is reversed upon further administrative or judicial review.''.

SEC. 628. DECOMMISSIONING PILOT PROGRAM.

(a) PILOT PROGRAM.—The Secretary shall establish a decommissioning pilot program under which the Secretary shall decommission and decontaminate the sodium-cooled fast breeder experimental test-site reactor located in northwest Arkansas, in accordance with the decommissioning activities contained in the report of the Department relating to the reactor, dated August 31, 1998.

(b) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to the Secretary to carry out this section $16,000,000.

SEC. 629. WHISTLEBLOWER PROTECTION.

(a) DEFINITION OF EMPLOYER.—Section 211(a)(2) of the Energy Reorganization Act of 1974 (42 U.S.C. 5851(a)(2)) is amended—

(1) in subparagraph (C), by striking ''and'' at the end;

(2) in subparagraph (D), by striking the period at the end and inserting a semicolon; and

(3) by adding at the end the following:

''(E) a contractor or subcontractor of the Commission;

''(F) the Commission; and

''(G) the Department of Energy.''.

(b) DE NOVO REVIEW.—Subsection (b) of such section 211 is amended by adding at the end the following new paragraph:

''(4) If the Secretary has not issued a final decision within 1 year after the filing of a complaint under paragraph (1), and there is no showing that such delay is due to the bad faith of the person seeking relief under this paragraph, such person may bring an action at law or equity for de novo review in the appropriate district court of the United States, which shall have jurisdiction over such an action without regard to the amount in controversy.''.

SEC. 630. MEDICAL ISOTOPE PRODUCTION.

Section 134 of the Atomic Energy Act of 1954 (42 U.S.C. 2160d) is amended—

(1) in subsection a., by striking ''a. The Commission'' and inserting ''a. IN GENERAL.—Except as provided in subsection b., the Commission'';

(2) by redesignating subsection b. as subsection c.; and

(3) by inserting after subsection a. the following:

''b. MEDICAL ISOTOPE PRODUCTION.—

''(1) DEFINITIONS.—In this subsection:

"(A) HIGHLY ENRICHED URANIUM.—The term 'highly enriched uranium' means uranium enriched to include concentration of U–235 above 20 percent.

"(B) MEDICAL ISOTOPE.—The term 'medical isotope' includes Molybdenum 99, Iodine 131, Xenon 133, and other radioactive materials used to produce a radiopharmaceutical for diagnostic, therapeutic procedures or for research and development.

"(C) RADIOPHARMACEUTICAL.—The term 'radiopharmaceutical' means a radioactive isotope that—

"(i) contains byproduct material combined with chemical or biological material; and

"(ii) is designed to accumulate temporarily in a part of the body for therapeutic purposes or for enabling the production of a useful image for use in a diagnosis of a medical condition.

"(D) RECIPIENT COUNTRY.—The term 'recipient country' means Canada, Belgium, France, Germany, and the Netherlands.

''(2) LICENSES.—The Commission may issue a license authorizing the export (including shipment to and use at intermediate and ultimate consignees specified in the license) to a recipient country of highly enriched uranium for medical isotope production if, in addition to any other requirements of this Act (except subsection a.), the Commission determines that—

''(A) a recipient country that supplies an assurance letter to the United States Government in connection with the consideration by the Commission of the export license application has informed the United States Government that any intermediate consignees and the ultimate consignee specified in the application are required to use the highly enriched uranium solely to produce medical isotopes; and

''(B) the highly enriched uranium for medical isotope production will be irradiated only in a reactor in a recipient country that—

''(i) uses an alternative nuclear reactor fuel; or

''(ii) is the subject of an agreement with the United States Government to convert to an alternative nuclear reactor fuel

when alternative nuclear reactor fuel can be used in the reactor.

''(3) REVIEW OF PHYSICAL PROTECTION REQUIREMENTS.—

''(A) IN GENERAL.—The Commission shall review the adequacy of physical protection requirements that, as of the date of an application under paragraph (2), are applicable to the transportation and storage of highly enriched uranium for medical isotope production or control of residual material after irradiation and extraction of medical isotopes.

''(B) IMPOSITION OF ADDITIONAL REQUIREMENTS.—If the Commission determines that additional physical protection requirements are necessary (including a limit on the quantity of highly enriched uranium that may be contained in a single shipment), the Commission shall impose such requirements as license conditions or through other appropriate means.

''(4) FIRST REPORT TO CONGRESS.—

''(A) NAS STUDY.—The Secretary shall enter into an arrangement with the National Academy of Sciences to conduct a study to determine—

"(i) the feasibility of procuring supplies of medical isotopes from commercial sources that do not use highly enriched uranium;

"(ii) the current and projected demand and availability of medical isotopes in regular current domestic use;

"(iii) the progress that is being made by the Department of Energy and others to eliminate all use of highly enriched uranium in reactor fuel, reactor targets, and medical isotope production facilities; and

"(iv) the potential cost differential in medical isotope production in the reactors and target processing facilities if the products were derived from production systems that do not involve fuels and targets with highly enriched uranium.

"(B) FEASIBILITY.—For the purpose of this subsection, the use of low enriched uranium to produce medical isotopes shall be determined to be feasible if—

"(i) low enriched uranium targets have been developed and demonstrated for use in the reactors and target processing

facilities that produce significant quantities of medical isotopes to serve United States needs for such isotopes;

"(ii) sufficient quantities of medical isotopes are available from low enriched uranium targets and fuel to meet United States domestic needs; and

"(iii) the average anticipated total cost increase from production of medical isotopes in such facilities without use of highly enriched uranium is less than 10 percent.

"(C) REPORT BY THE SECRETARY.—Not later than 5 years after the date of enactment of the Energy Policy Act of 2005, the Secretary shall submit to Congress a report that—

"(i) contains the findings of the National Academy of Sciences made in the study under subparagraph (A); and

"(ii) discloses the existence of any commitments from commercial producers to provide domestic requirements for medical isotopes without use of highly enriched uranium consistent with the feasibility criteria described in subparagraph (B) not

later than the date that is 4 years after the date of submission of the report.

"(5) SECOND REPORT TO CONGRESS.—If the study of the National Academy of Sciences determines under paragraph (4)(A)(i) that the procurement of supplies of medical isotopes from commercial sources that do not use highly enriched uranium is feasible, but the Secretary is unable to report the existence of commitments under paragraph (4)(C)(ii), not later than the date that is 6 years after the date of enactment of the Energy Policy Act of 2005, the Secretary shall submit to Congress a report that describes options for developing domestic supplies of medical isotopes in quantities that are adequate to meet domestic demand without the use of highly enriched uranium consistent with the cost increase described in paragraph (4)(B)(iii).

"(6) CERTIFICATION.—At such time as commercial facilities that do not use highly enriched uranium are capable of meeting domestic requirements for medical isotopes, within the cost increase described in paragraph (4)(B)(iii) and without impairing the reliable supply of medical isotopes for domestic utilization, the Secretary shall submit to Congress a certification to that effect.

''(7) SUNSET PROVISION.—After the Secretary submits a certification under paragraph (6), the Commission shall, by rule, terminate its review of export license applications under this subsection.''.

SEC. 631. SAFE DISPOSAL OF GREATER-THAN-CLASS C RADIOACTIVE WASTE.

(a) RESPONSIBILITY FOR ACTIVITIES TO PROVIDE STORAGE FACILITY.—The Secretary shall provide to Congress official notification of the final designation of an entity within the Department to have the responsibility of completing activities needed to provide a facility for safely disposing of all greater-than-Class C low-level radioactive waste.

(b) REPORTS AND PLANS.—

(1) REPORT ON PERMANENT DISPOSAL FACILITY.—

(A) PLAN REGARDING COST AND SCHEDULE FOR COMPLETION OF EIS AND ROD.—Not later than 1 year after the date of enactment of this Act, the Secretary, in consultation with Congress, shall submit to Congress a report containing an estimate of the cost and a proposed schedule to complete an environmental impact statement and record of decision for a

permanent disposal facility for greater-than-Class C radioactive waste.

(B) ANALYSIS OF ALTERNATIVES.—Before the Secretary makes a final decision on the disposal alternative or alternatives to be implemented, the Secretary shall—

(i) submit to Congress a report that describes all alternatives under consideration, including all information required in the comprehensive report making recommendations for ensuring the safe disposal of all greater-than-Class C low-level radioactive waste that was submitted by the Secretary to Congress in February 1987; and

(ii) await action by Congress.

(2) SHORT-TERM PLAN FOR RECOVERY AND STORAGE.—

(A) IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Secretary shall submit to Congress a plan to ensure the continued recovery and storage of greater-than-Class C low-level radioactive sealed sources that pose a security threat until a permanent disposal facility is available.

(B) CONTENTS.—The plan shall address estimated cost, resource, and facility needs.

SEC. 632. PROHIBITION ON NUCLEAR EXPORTS TO COUNTRIES THAT SPONSOR TERRORISM.

(a) IN GENERAL.—Section 129 of the Atomic Energy Act of 1954 (42 U.S.C. 2158) is amended—

(1) by inserting ''a.'' before ''No nuclear materials and equipment''; and

(2) by adding at the end the following new subsection:

''b.(1) Notwithstanding any other provision of law, including specifically section 121 of this Act, and except as provided in paragraphs (2) and (3), no nuclear materials and equipment or sensitive nuclear technology, including items and assistance authorized by section 57 b. of this Act and regulated under part 810 of title 10, Code of Federal Regulations, and nuclear-related items on the Commerce Control List maintained under part 774 of title 15 of the Code of Federal Regulations, shall be exported or reexported, or transferred or retransferred whether directly or indirectly, and no Federal agency shall issue any license, approval, or authorization for the export or reexport, or transfer, or retransfer, whether directly or indirectly, of these items or assistance (as defined in this paragraph) to any country whose government has been identi-

fied by the Secretary of State as engaged in state sponsorship of terrorist activities (specifically including any country the government of which has been determined by the Secretary of State under section 620A(a) of the Foreign Assistance Act of 1961 (22 U.S.C. 2371(a)), section 6(j)(1) of the Export Administration Act of 1979 (50 U.S.C. App. 2405(j)(1)), or section 40(d) of the Arms Export Control Act (22 U.S.C. 2780(d)) to have repeatedly provided support for acts of international terrorism).

''(2) This subsection shall not apply to exports, reexports, transfers, or retransfers of radiation monitoring technologies, surveillance equipment, seals, cameras, tamper-indication devices, nuclear detectors, monitoring systems, or equipment necessary to safely store, transport, or remove hazardous materials, whether such items, services, or information are regulated by the Department of Energy, the Department of Commerce, or the Nuclear Regulatory Commission, except to the extent that such technologies, equipment, seals, cameras, devices, detectors, or systems are available for use in the design or construction of nuclear reactors or nuclear weapons.

''(3) The President may waive the application of paragraph (1) to a country if the President determines and certifies to Congress that the waiver will not result in any increased risk that the country receiving the waiver

will acquire nuclear weapons, nuclear reactors, or any materials or components of nuclear weapons and—

''(A) the government of such country has not within the preceding 12-month period willfully aided or abetted the international proliferation of nuclear explosive devices to individuals or groups or willfully aided and abetted an individual or groups in acquiring unsafeguarded nuclear materials;

''(B) in the judgment of the President, the government of such country has provided adequate, verifiable assurances that it will cease its support for acts of international terrorism;

''(C) the waiver of that paragraph is in the vital national security interest of the United States; or

''(D) such a waiver is essential to prevent or respond to a serious radiological hazard in the country receiving the waiver that may or does threaten public health and safety.''.

(b) APPLICABILITY TO EXPORTS APPROVED FOR TRANSFER BUT NOT TRANSFERRED.—Subsection b. of section 129 of Atomic Energy Act of 1954, as added by subsection (a) of this section, shall apply with respect to exports that have been approved for transfer as of the date of the enactment of this Act but have not yet been transferred as of that date.

SEC. 633. EMPLOYEE BENEFITS.

Section 3110(a) of the USEC Privatization Act (42 U.S.C. 2297h-8(a)) is amended by adding at the end the following new paragraph:

''(8) CONTINUITY OF BENEFITS.—To the extent appropriations are provided in advance for this purpose or are otherwise available, not later than 30 days after the date of enactment of this paragraph, the Secretary shall implement such actions as are necessary to ensure that any employee who—

''(A) is involved in providing infrastructure or environmental remediation services at the Portsmouth, Ohio, or the Paducah, Kentucky, Gaseous Diffusion Plant;

''(B) has been an employee of the Department of Energy's predecessor management and integrating contractor (or its first or second tier subcontractors), or of the Corporation, at the Portsmouth, Ohio, or the Paducah, Kentucky, facility; and

''(C) was eligible as of April 1, 2005, to participate in or transfer into the Multiple Employer Pension Plan or the associated multiple employer retiree health care benefit plans, as defined in those plans, shall continue to be eligible to participate in or transfer into such pension or health care benefit plans.''.

SEC. 634. DEMONSTRATION HYDROGEN PRODUCTION AT EXISTING NUCLEAR POWER PLANTS.

(a) DEMONSTRATION PROJECTS.—The Secretary shall provide for the establishment of 2 projects in geographic areas that are regionally and climatically diverse to demonstrate the commercial production of hydrogen at existing nuclear power plants.

(b) ECONOMIC ANALYSIS.—Prior to making an award under subsection (a), the Secretary shall determine whether the use of existing nuclear power plants is a cost-effective means of producing hydrogen.

(c) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to the Secretary for the purposes of carrying out this section not more than $100,000,000.

SEC. 635. PROHIBITION ON ASSUMPTION BY UNITED STATES GOVERNMENT OF LIABILITY FOR CERTAIN FOREIGN INCIDENTS.

(a) IN GENERAL.—Notwithstanding any other provision of law, no officer of the United States or of any department, agency, or instrumentality of the United States Government may enter into any contract or other arrangement, or into any amendment or modification of a contract or other arrangement, the purpose or effect of which would be to directly or indirectly impose liability on the United States Government, or any department, agency, or

instrumentality of the United States Government, or to otherwise directly or indirectly require an indemnity by the United States Government, for nuclear incidents occurring in connection with the design, construction, or operation of a production facility or utilization facility in any country whose government has been identified by the Secretary of State as engaged in state sponsorship of terrorist activities (specifically including any country the government of which, as of September 11, 2001, had been determined by the Secretary of State under section 620A(a) of the Foreign Assistance Act of 1961 (22 U.S.C. 2371(a)), section 6(j)(1) of the Export Administration Act of 1979 (50 U.S.C. App. 2405(j)(1)), or section 40(d) of the Arms Export Control Act (22 U.S.C. 2780(d)) to have repeatedly provided support for acts of international terrorism). This section shall not apply to nuclear incidents occurring as a result of missions, carried out under the direction of the Secretary, the Secretary of Defense, or the Secretary of State, that are necessary to safely secure, store, transport, or remove nuclear materials for nuclear safety or nonproliferation purposes.

(b) DEFINITIONS.—The terms used in this section shall have the same meaning as those terms have under section 11 of the Atomic Energy Act of 1954 (42 U.S.C. 2014), unless otherwise expressly provided in this section.

SEC. 636. AUTHORIZATION OF APPROPRIATIONS.

There are authorized to be appropriated such sums as are necessary to carry out this subtitle and the amendments made by this subtitle.

SEC. 637. NUCLEAR REGULATORY COMMISSION USER FEES AND ANNUAL CHARGES.

(a) IN GENERAL.—Section 6101 of the Omnibus Budget Reconciliation Act of 1990 (42 U.S.C. 2214) is amended—

(1) in subsection (a)—

(A) by striking ''Except as provided in paragraph (3), the'' and inserting ''The'' in paragraph (1); and

(B) by striking paragraph (3); and

(2) in subsection (c)—

(A) by striking ''and'' at the end of paragraph (2)(A)(i);

(B) by striking the period at the end of paragraph (2)(A)(ii) and inserting a semicolon;

(C) by adding at the end of paragraph (2)(A) the following new clauses:

''(iii) amounts appropriated to the Commission for the fiscal year for implementation of section 3116 of the Ronald W. Reagan National Defense Authorization Act for Fiscal Year 2005; and

''(iv) amounts appropriated to the Commission for homeland security activities of the Commission for the fiscal year, except for the costs of fingerprinting and background checks required by section 149 of the Atomic Energy Act of 1954 (42 U.S.C. 2169) and the costs of conducting security inspections.''; and

(D) by amending paragraph (2)(B)(v) to read as follows:

''(v) 90 percent for fiscal year 2005 and each fiscal year thereafter.''.

(b) REPEAL.—Section 7601 of the Consolidated Omnibus Budget Reconciliation Act of 1985 (42 U.S.C. 2213) is repealed.

(c) EFFECTIVE DATE.—The amendments made by this section take effect on October 1, 2006.

Subtitle B—Next Generation Nuclear Plant Project

SEC. 641. PROJECT ESTABLISHMENT.

(a) ESTABLISHMENT.—The Secretary shall establish a project to be known as the ''Next Generation Nuclear Plant Project'' (referred to in this subtitle as the ''Project'').

(b) CONTENT.—The Project shall consist of the research, development, design, construction, and operation of a prototype plant, including a nuclear reactor that—

(1) is based on research and development activities supported by the Generation IV Nuclear Energy Systems Initiative under section 942(d); and

(2) shall be used—

(A) to generate electricity;

(B) to produce hydrogen; or

(C) both to generate electricity and to produce hydrogen.

SEC. 642. PROJECT MANAGEMENT.

(a) DEPARTMENTAL MANAGEMENT.—

(1) IN GENERAL.—The Project shall be managed in the Department by the Office of Nuclear Energy, Science, and Technology.

(2) GENERATION IV NUCLEAR ENERGY SYSTEMS PROGRAM.—The Secretary may combine the Project with the Generation IV Nuclear Energy Systems Initiative.

(3) EXISTING DOE PROJECT MANAGEMENT EXPERTISE.—The Secretary may utilize capabilities for review of construction projects for advanced scientific facilities within the Office of Science to track the progress of the Project.

(b) LABORATORY MANAGEMENT.—

(1) LEAD LABORATORY.—The Idaho National Laboratory shall be the lead National Laboratory for the Project and shall collaborate with other National Laboratories, institutions of higher education, other research institutes, industrial researchers, and international researchers to carry out the Project.

(2) INDUSTRIAL PARTNERSHIPS.—

(A) IN GENERAL.—The Idaho National Laboratory shall organize a consortium of appropriate industrial partners that will carry out cost-shared research, development, design, and construction activities, and operate research facilities, on behalf of the Project.

(B) COST-SHARING.—Activities of industrial partners funded by the Project shall be cost-shared in accordance with section 1002.

(C) PREFERENCE.—Preference in determining the final structure of the consortium or any partnerships under this subtitle shall be given to a structure (including designating as a lead industrial partner an entity incorporated in the United States) that retains United States technological leadership in the Project while

maximizing cost sharing opportunities and minimizing Federal funding responsibilities.

(3) PROTOTYPE PLANT SITING.—The prototype nuclear reactor and associated plant shall be sited at the Idaho National Laboratory in Idaho.

(4) REACTOR TEST CAPABILITIES.—The Project shall use, if appropriate, reactor test capabilities at the Idaho National Laboratory.

(5) OTHER LABORATORY CAPABILITIES.—The Project may use, if appropriate, facilities at other National Laboratories.

SEC. 643. PROJECT ORGANIZATION.

(a) MAJOR PROJECT ELEMENTS.—The Project shall consist of the following major program elements:

(1) High-temperature hydrogen production technology development and validation.

(2) Energy conversion technology development and validation.

(3) Nuclear fuel development, characterization, and qualification.

(4) Materials selection, development, testing, and qualification.

(5) Reactor and balance-of-plant design, engineering, safety analysis, and qualification.

(b) PROJECT PHASES.—The Project shall be conducted in the following phases:

(1) FIRST PROJECT PHASE.—A first project phase shall be conducted to—

(A) select and validate the appropriate technology under subsection (a)(1);

(B) carry out enabling research, development, and demonstration activities on technologies and components under paragraphs (2) through (4) of subsection (a);

(C) determine whether it is appropriate to combine electricity generation and hydrogen production in a single prototype nuclear reactor and plant; and

(D) carry out initial design activities for a prototype nuclear reactor and plant, including development of design methods and safety analytical methods and studies under subsection (a)(5).

(2) SECOND PROJECT PHASE.—A second project phase shall be conducted to—

(A) continue appropriate activities under paragraphs (1) though (5) of subsection (a);

(B) develop, through a competitive process, a final design for the prototype nuclear reactor and plant;

(C) apply for licenses to construct and operate the prototype nuclear reactor from the Nuclear Regulatory Commission; and

(D) construct and start up operations of the prototype nuclear reactor and its associated hydrogen or electricity production facilities.

(c) PROJECT REQUIREMENTS.—

(1) IN GENERAL.—The Secretary shall ensure that the Project is structured so as to maximize the technical interchange and transfer of technologies and ideas into the Project from other sources of relevant expertise, including—

(A) the nuclear power industry, including nuclear powerplant construction firms, particularly with respect to issues associated with plant design, construction, and operational and safety issues;

(B) the chemical processing industry, particularly with respect to issues relating to—

(i) the use of process energy for production of hydrogen; and

(ii) the integration of technologies developed by the Project into chemical processing environments; and

(C) international efforts in areas related to the Project, particularly with respect to hydrogen production technologies.

(2) INTERNATIONAL COLLABORATION.—

(A) IN GENERAL.—The Secretary shall seek international cooperation, participation, and financial contributions for the Project.

(B) ASSISTANCE FROM INTERNATIONAL PARTNERS.—The Secretary, through the Idaho National Laboratory, may contract for assistance from specialists or facilities from member countries of the Generation IV International Forum, the Russian Federation, or other international partners if the specialists or facilities provide access to cost-effective and relevant skills or test capabilities.

(C) PARTNER NATIONS.—The Project may involve demonstration of selected project objectives in a partner country.

(D) GENERATION IV INTERNATIONAL FORUM.—The Secretary shall ensure that inter-

national activities of the Project are coordinated with the Generation IV International Forum.

(3) REVIEW BY NUCLEAR ENERGY RESEARCH ADVISORY COMMITTEE.—

(A) IN GENERAL.—The Nuclear Energy Research Advisory Committee of the Department (referred to in this paragraph as the ''NERAC'') shall—

(i) review all program plans for the Project and all progress under the Project on an ongoing basis; and

(ii) ensure that important scientific, technical, safety, and program management issues receive attention in the Project and by the Secretary.

(B) ADDITIONAL EXPERTISE.—The NERAC shall supplement the expertise of the NERAC or appoint subpanels to incorporate into the review by the NERAC the relevant sources of expertise described under paragraph (1).

(C) INITIAL REVIEW.—Not later than 180 days after the date of enactment of this Act, the NERAC shall—

(i) review existing program plans for the Project in light of the recommendations of the document entitled ''Design Features and Technology Uncertainties for the Next Generation Nuclear Plant,'' dated June 30, 2004; and

(ii) address any recommendations of the document not incorporated in program plans for the Project.

(D) FIRST PROJECT PHASE REVIEW.—On a determination by the Secretary that the appropriate activities under the first project phase under subsection (b)(1) are nearly complete, the Secretary shall request the NERAC to conduct a comprehensive review of the Project and to report to the Secretary the recommendation of the NERAC concerning whether the Project is ready to proceed to the second project phase under subsection (b)(2).

(E) TRANSMITTAL OF REPORTS TO CONGRESS.—Not later than 60 days after receiving any report from the NERAC related to the Project, the Secretary shall submit to the appropriate committees of the Senate and the House of Representatives a copy of the report,

along with any additional views of the Secretary that the Secretary may consider appropriate.

SEC. 644. NUCLEAR REGULATORY COMMISSION.

(a) IN GENERAL.—In accordance with section 202 of the Energy Reorganization Act of 1974 (42 U.S.C. 5842), the Nuclear Regulatory Commission shall have licensing and regulatory authority for any reactor authorized under this subtitle.

(b) LICENSING STRATEGY.—Not later than 3 years after the date of enactment of this Act, the Secretary and the Chairman of the Nuclear Regulatory Commission shall jointly submit to the appropriate committees of the Senate and the House of Representatives a licensing strategy for the prototype nuclear reactor, including—

(1) a description of ways in which current licensing requirements relating to light-water reactors need to be adapted for the types of prototype nuclear reactor being considered by the Project;

(2) a description of analytical tools that the Nuclear Regulatory Commission will have to develop to independently verify designs and performance characteristics of components, equipment, systems, or structures associated with the prototype nuclear reactor;

(3) other research or development activities that may be required on the part of the Nuclear Regulatory Commission in order to review a license application for the prototype nuclear reactor; and

(4) an estimate of the budgetary requirements associated with the licensing strategy.

(c) ONGOING INTERACTION.—The Secretary shall seek the active participation of the Nuclear Regulatory Commission throughout the duration of the Project to—

(1) avoid design decisions that will compromise adequate safety margins in the design of the reactor or impair the accessibility of nuclear safety-related components of the prototype reactor for inspection and maintenance;

(2) develop tools to facilitate inspection and maintenance needed for safety purposes; and

(3) develop risk-based criteria for any future commercial development of a similar reactor architectures.

SEC. 645. PROJECT TIMELINES AND AUTHORIZATION OF APPROPRIATIONS.

(a) TARGET DATE TO COMPLETE THE FIRST PROJECT PHASE.—Not later than September 30, 2011, the Secretary shall—

(1) select the technology to be used by the Project for high-temperature hydrogen production and the initial design parameters for the prototype nuclear plant; or

(2) submit to Congress a report establishing an alternative date for making the selection.

(b) DESIGN COMPETITION FOR SECOND PROJECT PHASE.—

(1) IN GENERAL.—The Secretary, acting through the Idaho National Laboratory, shall fund not more than 4 teams for not more than 2 years to develop detailed proposals for competitive evaluation and selection of a single proposal for a final design of the prototype nuclear reactor.

(2) SYSTEMS INTEGRATION.—The Secretary may structure Project activities in the second project phase to use the lead industrial partner of the competitively selected design under paragraph (1) in a systems integration role for final design and construction of the Project.

(c) TARGET DATE TO COMPLETE PROJECT CONSTRUCTION.—Not later than September 30, 2021, the Secretary shall—

(1) complete construction and begin operations of the prototype nuclear reactor and associated energy or hydrogen facilities; or

(2) submit to Congress a report establishing an alternative date for completion.

(d) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to the Secretary for research and construction activities under this subtitle (including for transfer to the Nuclear Regulatory Commission for activities under section 644 as appropriate)—

(1) $1,250,000,000 for the period of fiscal years 2006 through 2015; and

(2) such sums as are necessary for each of fiscal years 2016 through 2021.

Subtitle C—Nuclear Security

SEC. 651. NUCLEAR FACILITY THREATS.

(a) STUDY.—The President, in consultation with the Nuclear Regulatory Commission (referred to in this subtitle as the ''Commission'') and other appropriate Federal, State, and local agencies and private entities, shall conduct a study to identify the types of threats that pose an appreciable risk to the security of the various classes of facilities licensed by the Commission under the Atomic Energy Act of 1954 (42 U.S.C. 2011 et seq.). Such study shall take into account, but not be limited to—

(1) the events of September 11, 2001;

(2) an assessment of physical, cyber, biochemical, and other terrorist threats;

(3) the potential for attack on facilities by multiple coordinated teams of a large number of individuals;

(4) the potential for assistance in an attack from several persons employed at the facility;

(5) the potential for suicide attacks;

(6) the potential for water-based and air-based threats;

(7) the potential use of explosive devices of considerable size and other modern weaponry;

(8) the potential for attacks by persons with a sophisticated knowledge of facility operations;

(9) the potential for fires, especially fires of long duration;

(10) the potential for attacks on spent fuel shipments by multiple coordinated teams of a large number of individuals;

(11) the adequacy of planning to protect the public health and safety at and around nuclear facilities, as appropriate, in the event of a terrorist attack against a nuclear facility; and

(12) the potential for theft and diversion of nuclear materials from such facilities.

(b) SUMMARY AND CLASSIFICATION REPORT.—Not later than 180 days after the date of the enactment of this Act, the President shall transmit to Congress and the Commission a report—

(1) summarizing the types of threats identified under subsection (a); and

(2) classifying each type of threat identified under subsection (a), in accordance with existing laws and regulations, as either—

(A) involving attacks and destructive acts, including sabotage, directed against the facility by an enemy of the United States, whether a foreign government or other person, or otherwise falling under the responsibilities of the Federal Government; or

(B) involving the type of risks that Commission licensees should be responsible for guarding against.

(c) FEDERAL ACTION REPORT.—Not later than 90 days after the date on which a report is transmitted under subsection (b), the President shall transmit to Congress a report on actions taken, or to be taken, to address the types of threats identified under subsection (b)(2)(A), in-

cluding identification of the Federal, State, and local agencies responsible for carrying out the obligations and authorities of the United States. Such report may include a classified annex, as appropriate.

(d) REGULATIONS.—Not later than 180 days after the date on which a report is transmitted under subsection (b), the Commission may revise, by rule, the design basis threats issued before the date of enactment of this section as the Commission considers appropriate based on the summary and classification report.

(e) PHYSICAL SECURITY PROGRAM.—The Commission shall establish an operational safeguards response evaluation program that ensures that the physical protection capability and operational safeguards response for sensitive nuclear facilities, as determined by the Commission consistent with the protection of public health and the common defense and security, shall be tested periodically through Commission approved or designed, observed, and evaluated force-on-force exercises to determine whether the ability to defeat the design basis threat is being maintained. For purposes of this subsection, the term ''sensitive nuclear facilities'' includes at a minimum commercial nuclear power plants and category I fuel cycle facilities.

(f) CONTROL OF INFORMATION.—Notwithstanding any other provision of law, the Commission may undertake any rulemaking under this subtitle in a manner that will fully protect safeguards and classified national security information.

(g) FEDERAL SECURITY COORDINATORS.—

(1) REGIONAL OFFICES.—Not later than 18 months after the date of enactment of this Act, the Commission shall assign a Federal security coordinator, under the employment of the Commission, to each region of the Commission.

(2) RESPONSIBILITIES.—The Federal security coordinator shall be responsible for—

(A) communicating with the Commission and other Federal, State, and local authorities concerning threats, including threats against such classes of facilities as the Commission determines to be appropriate;

(B) ensuring that such classes of facilities as the Commission determines to be appropriate maintain security consistent with the security plan in accordance with the appropriate threat level; and

(C) assisting in the coordination of security measures among the private security forces

at such classes of facilities as the Commission determines to be appropriate and Federal, State, and local authorities, as appropriate.

(h) TRAINING PROGRAM.—The President shall establish a program to provide technical assistance and training to Federal agencies, the National Guard, and State and local law enforcement and emergency response agencies in responding to threats against a designated nuclear facility.

SEC. 652. FINGERPRINTING AND CRIMINAL HISTORY RECORD CHECKS.

Section 149 of the Atomic Energy Act of 1954 (42 U.S.C. 2169) is amended—

(1) in subsection a.—

(A) by striking ''a. The Nuclear'' and all that follows through ''section 147.'' and inserting the following:

''a.(1)(A)(i) The Commission shall require each individual or entity described in clause (ii) to fingerprint each individual described in subparagraph (B) before the individual described in subparagraph (B) is permitted access under subparagraph (B).

''(ii) The individuals and entities referred to in clause (i) are individuals and entities that, on or before the date on which an individual is permitted access under subparagraph (B)—

''(I) are licensed or certified to engage in an activity subject to regulation by the Commission;

''(II) have filed an application for a license or certificate to engage in an activity subject to regulation by the Commission; or

''(III) have notified the Commission in writing of an intent to file an application for licensing, certification, permitting, or approval of a product or activity subject to regulation by the Commission.

''(B) The Commission shall require to be fingerprinted any individual who—

''(i) is permitted unescorted access to—

''(I) a utilization facility; or

''(II) radioactive material or other property subject to regulation by the Commission that the Commission determines to be of such significance to the public health and safety or the common defense and security as to warrant fingerprinting and background checks; or

''(ii) is permitted access to safeguards information under section 147.'';

(B) by striking ''All fingerprints obtained by a licensee or applicant as required in the preceding sentence'' and inserting the following:

''(2) All fingerprints obtained by an individual or entity as required in paragraph (1)'';

(C) by striking ''The costs of any identification and records check conducted pursuant to the preceding sentence shall be paid by the licensee or applicant.'' and inserting the following:

''(3) The costs of an identification or records check under paragraph (2) shall be paid by the individual or entity required to conduct the fingerprinting under paragraph (1)(A).''; and

(D) by striking ''Notwithstanding any other provision of law, the Attorney General may provide all the results of the search to the Commission, and, in accordance with regulations prescribed under this section, the Commission may provide such results to licensee or applicant submitting such fingerprints.'' and inserting the following:

''(4) Notwithstanding any other provision of law—

''(A) the Attorney General may provide any result of an identification or records check under paragraph (2) to the Commission; and

''(B) the Commission, in accordance with regulations prescribed under this section, may provide

the results to the individual or entity required to conduct the fingerprinting under paragraph (1)(A).'';

(2) in subsection c.—

(A) by striking '', subject to public notice and comment, regulations—'' and inserting ''requirements—''; and

(B) in paragraph (2)(B), by striking ''unescorted access to the facility of a licensee or applicant'' and inserting ''unescorted access to a utilization facility, radioactive material, or other property described in subsection a.(1)(B)'';

(3) by redesignating subsection d. as subsection e.; and

(4) by inserting after subsection c. the following:

''d. The Commission may require a person or individual to conduct fingerprinting under subsection a.(1) by authorizing or requiring the use of any alternative biometric method for identification that has been approved by—

''(1) the Attorney General; and

''(2) the Commission, by regulation.''.

SEC. 653. USE OF FIREARMS BY SECURITY PERSONNEL.

The Atomic Energy Act of 1954 is amended by inserting after section 161 (42 U.S.C. 2201) the following:

"SEC. 161A. USE OF FIREARMS BY SECURITY PERSONNEL.

''a. DEFINITIONS.—In this section, the terms 'handgun', 'rifle', 'shotgun', 'firearm', 'ammunition', 'machinegun', 'short-barreled shotgun', and 'short-barreled rifle' have the meanings given the terms in section 921(a) of title 18, United States Code.

''b. AUTHORIZATION.—Notwithstanding subsections (a)(4), (a)(5), (b)(2), (b)(4), and (o) of section 922 of title 18, United States Code, section 925(d)(3) of title 18, United States Code, section 5844 of the Internal Revenue Code of 1986, and any law (including regulations) of a State or a political subdivision of a State that prohibits the transfer, receipt, possession, transportation, importation, or use of a handgun, a rifle, a shotgun, a short-barreled shotgun, a short-barreled rifle, a machinegun, a semiautomatic assault weapon, ammunition for any such gun or weapon, or a large capacity ammunition feeding device, in carrying out the duties of the Commission, the Commission may authorize the security personnel of any licensee or certificate holder of the Commission (including an employee of a contractor of such a licensee or certificate holder) to transfer, receive, possess, transport, im-

port, and use 1 or more such guns, weapons, ammunition, or devices, if the Commission determines that—

''(1) the authorization is necessary to the discharge of the official duties of the security personnel; and

''(2) the security personnel—

''(A) are not otherwise prohibited from possessing or receiving a firearm under Federal or State laws relating to possession of firearms by a certain category of persons;

''(B) have successfully completed any requirement under this section for training in the use of firearms and tactical maneuvers;

''(C) are engaged in the protection of—

''(i) a facility owned or operated by a licensee or certificate holder of the Commission that is designated by the Commission; or

''(ii) radioactive material or other property owned or possessed by a licensee or certificate holder of the Commission, or that is being transported to or from a facility owned or operated by such a licensee or certificate holder, and that has been determined by the Commission to be of sig-

nificance to the common defense and security or public health and safety; and

''(D) are discharging the official duties of the security personnel in transferring, receiving, possessing, transporting, or importing the weapons, ammunition, or devices.

''c. BACKGROUND CHECKS.—A person that receives, possesses, transports, imports, or uses a weapon, ammunition, or a device under subsection (b) shall be subject to a background check by the Attorney General, based on fingerprints and including a background check under section 103(b) of the Brady Handgun Violence Prevention Act (Public Law 103–159; 18 U.S.C. 922 note) to determine whether the person is prohibited from possessing or receiving a firearm under Federal or State law.

''d. EFFECTIVE DATE.—This section takes effect on the date on which guidelines are issued by the Commission, with the approval of the Attorney General, to carry out this section.''

SEC. 654. UNAUTHORIZED INTRODUCTION OF DANGEROUS WEAPONS.

Section 229 of the Atomic Energy Act of 1954 (42 U.S.C. 2278a) is amended—

(1) by striking ''SEC. 229, TRESPASS UPON COMMISSION INSTALLATIONS.—'' and inserting the following:

''SEC. 229. TRESPASS ON COMMISSION INSTALLATIONS.'';

(2) by adjusting the indentations of subsections a., b., and c. so as to reflect proper subsection indentations; and

(3) in subsection a.—

(A) in the first sentence, by striking ''a. The'' and inserting the following:

''a.(1) The'';

(B) in the second sentence, by striking ''Every'' and inserting the following:

''(2) Every''; and

(C) in paragraph (1) (as designated by subparagraph (A))—

(i) by striking ''or in the custody'' and inserting ''in the custody''; and

(ii) by inserting '', or subject to the licensing authority of the Commission or certification by the Commission under this Act or any other Act'' before the period.

SEC. 655. SABOTAGE OF NUCLEAR FACILITIES, FUEL, OR DESIGNATED MATERIAL.

(a) IN GENERAL.—Section 236a. of the Atomic Energy Act of 1954 (42 U.S.C. 2284(a)) is amended—

(1) in paragraph (2), by striking ''storage facility'' and inserting ''treatment, storage, or disposal facility'';

(2) in paragraph (3)—

(A) by striking ''such a utilization facility'' and inserting ''a utilization facility licensed under this Act''; and

(B) by striking ''or'' at the end;

(3) in paragraph (4)—

(A) by striking ''facility licensed'' and inserting '', uranium conversion, or nuclear fuel fabrication facility licensed or certified''; and

(B) by striking the comma at the end and inserting a semicolon; and

(4) by inserting after paragraph (4) the following:

''(5) any production, utilization, waste storage, waste treatment, waste disposal, uranium enrichment, uranium conversion, or nuclear fuel fabrication facility subject to licensing or certification under this Act during construction of the facility, if the destruction or damage caused or attempted to be

caused could adversely affect public health and safety during the operation of the facility;

''(6) any primary facility or backup facility from which a radiological emergency preparedness alert and warning system is activated; or

''(7) any radioactive material or other property subject to regulation by the Commission that, before the date of the offense, the Commission determines, by order or regulation published in the Federal Register, is of significance to the public health and safety or to common defense and security;''.

(b) CONFORMING AMENDMENT.—Section 236 of the Atomic Energy Act of 1954 (42 U.S.C. 2284) is amended by striking ''intentionally and willfully'' each place it appears and inserting ''knowingly''.

SEC. 656. SECURE TRANSFER OF NUCLEAR MATERIALS.

(a) AMENDMENT.—Chapter 14 of the Atomic Energy Act of 1954 (42 U.S.C. 2201–2210b) (as amended by section 624(a)) is amended by adding at the end the following new section:

''SEC. 170D. SECURE TRANSFER OF NUCLEAR MATERIALS.

''a. The Nuclear Regulatory Commission shall establish a system to ensure that materials described in subsection b., when transferred or received in the United States by any party pursuant to an import or export li-

cense issued pursuant to this Act, are accompanied by a manifest describing the type and amount of materials being transferred or received. Each individual receiving or accompanying the transfer of such materials shall be subject to a security background check conducted by appropriate Federal entities.

''b. Except as otherwise provided by the Commission by regulation, the materials referred to in subsection a. are byproduct materials, source materials, special nuclear materials, high-level radioactive waste, spent nuclear fuel, transuranic waste, and low-level radioactive waste (as defined in section 2(16) of the Nuclear Waste Policy Act of 1982 (42 U.S.C. 10101(16))).''.

(b) REGULATIONS.—Not later than 1 year after the date of the enactment of this Act, and from time to time thereafter as it considers necessary, the Nuclear Regulatory Commission shall issue regulations identifying radioactive materials or classes of individuals that, consistent with the protection of public health and safety and the common defense and security, are appropriate exceptions to the requirements of section 170D of the Atomic Energy Act of 1954, as added by subsection (a) of this section.

(c) EFFECTIVE DATE.—The amendment made by subsection (a) shall take effect upon the issuance of regu-

lations under subsection (b), except that the background check requirement shall become effective on a date established by the Commission.

(d) EFFECT ON OTHER LAW.—Nothing in this section or the amendment made by this section shall waive, modify, or affect the application of chapter 51 of title 49, United States Code, part A of subtitle V of title 49, United States Code, part B of subtitle VI of title 49, United States Code, and title 23, United States Code.

(e) TABLE OF SECTIONS AMENDMENT.—The table of sections for chapter 14 of the Atomic Energy Act of 1954 (as amended by section 624(b)) is amended by adding at the end the following new item:

"Sec. 170D. Secure transfer of nuclear materials.".

SEC. 657. DEPARTMENT OF HOMELAND SECURITY CONSULTATION.

Before issuing a license for a utilization facility, the Nuclear Regulatory Commission shall consult with the Department of Homeland Security concerning the potential vulnerabilities of the location of the proposed facility to terrorist attack.