NUCLEAR REGULATORY COMMISSION

10 CFR Part 110

3150-AH44

Export and Import of Nuclear Equipment and Radioactive Materials: Security Policies

AGENCY: Nuclear Regulatory Commission.

ACTION: Proposed rule.

SUMMARY: The Nuclear Regulatory Commission (NRC) is proposing to amend its regulations pertaining to the export and import of nuclear equipment and radioactive materials. This proposed rule is intended to reflect recent changes to the nuclear and radioactive material security policies of the Commission and the Executive Branch, for the import and export of radioactive material. A specific license will be required for the import and export of high-risk radioactive material.

DATES: Submit comments by [Insert the date 75 days after publication in the Federal Register]. Comments received after this date will be considered if it is practical to do so, but the Commission is able to assure consideration only for comments received on or before this date.

ADDRESSES: You may submit comments by any one of the following methods. Please include the following number **RIN 3150-AH44** in the subject line of your comments. Comments on rulemakings submitted in writing or in electronic form will be made available to the public in their entirety on the NRC rulemaking web site. Personally identifiable information, such as your home e-mail address, will not be removed from your comments.

Mail comments to: Secretary, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, ATTN: Rulemakings and Adjudications Staff.

E-mail comments to: SECY@nrc.gov. If you do not receive a reply e-mail confirming that we have received your comments, contact us directly at (301) 415-1966. You may also submit comments via the NRC's rulemaking web site at http://ruleforum.llnl.gov. Address questions about our rulemaking website to Carol Gallagher (301) 415-5905; email cag@nrc.gov. Comments can also be submitted via the Federal Rulemaking Portal http://www.regulations.gov.

Hand deliver comments to: 11555 Rockville Pike, Rockville, Maryland 20852, between 7:30 am and 4:15 pm Federal workdays. (Telephone (301) 415-1966).

Fax comments to: Secretary, U.S. Nuclear Regulatory Commission at (301) 415-1101.

Publicly available documents related to this rulemaking may be viewed electronically on the public computers located at the NRC's Public Document Room (PDR), O1 F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The PDR reproduction contractor will copy documents for a fee. Selected documents, including comments, may be viewed and downloaded electronically via the NRC rulemaking web site at http://ruleforum.llnl.gov.

Publicly available documents created or received at the NRC after November 1, 1999, are available electronically at the NRC's Electronic Reading Room at http://www.nrc.gov/reading-rm/adams.html. From this site, the public can gain entry into the NRC's Agencywide Document Access and Management System (ADAMS), which provides text and image files of NRC's public documents. If you do not have access to ADAMS or if there are problems in accessing the documents located in ADAMS, contact the NRC Public

Document Room (PDR) Reference staff at 1-800-397-4209, 301-415-4737 or by e-mail to pdr@nrc.gov.

FOR FURTHER INFORMATION CONTACT: Suzanne Schuyler-Hayes, Office of International Programs, U.S. Nuclear Regulatory Commission, Washington DC. 20555-0001, telephone (301) 415-2333, e-mail: ssh@nrc.gov.

SUPPLEMENTARY INFORMATION:

Background

As a result of the terrorist attacks in the United States on September 11, 2001, the Nuclear Regulatory Commission has undertaken a comprehensive review of nuclear and radioactive material security requirements, with particular focus on high-risk radioactive material. This material, including certain quantities of cobalt-60, cesium-137, iridium-192 and americium-241 isotopes, has the potential to be used in a radiological dispersion device (RDD) or a radiological exposure device (RED) in the absence of proper security measures. This review takes into consideration the changing domestic and international threat environments and related U.S. Government supported international initiatives in the nuclear security area, particularly activities conducted by the International Atomic Energy Agency (IAEA).

Recently, the Commission issued a series of domestic Orders concerning security measures applicable to high-risk radioactive material. These Orders include enhanced security requirements which are also known as "Additional Security Measures," or ASMs. The ASMs have been issued to domestic licensees of the Commission and Agreement States, under the

Commission's exclusive authority to provide for the common defense and security. They have not been made available to the general public because they contain sensitive security information that is protected from public disclosure as Safeguards information in accordance with section 147 of the Atomic Energy Act. The ASMs include several provisions that pertain to export and import shipments, particularly concerning security during transportation and advance notice of proposed shipments. It is anticipated that these orders will be further refined based on feedback from stakeholders and will eventually be reflected in the U.S. Code of Federal Regulations covering radioactive material (primarily revisions to 10 CFR Parts 30-36 and 70).

The Commission has also supported U.S. Government efforts to establish common international guidelines governing the export and import of high-risk radioactive materials. This effort has resulted in a major revision to the International Atomic Energy Agency Code of Conduct on the Safety and Security of Radioactive Sources (Code of Conduct). The revised Code of Conduct was approved by the IAEA Board of Governors in September 2003, and is available on the IAEA website at http://www.iaea.org/Publications/Standards/index.html. Following approval of the Code of Conduct, the Commission has played a key role in multilateral meetings to develop a related document providing internationally accepted guidance for export and import activities involving high-risk radioactive material. This export/import guidance document is expected to be approved later this year, when it will be published as an IAEA Information Circular (INFCIRC).

The Code of Conduct recommends that IAEA member Countries develop specified export/import controls, discussed below, covering sources in Categories 1 and 2 in Table 1 of Annex 1 of the Code. Table 1 includes a list of high-risk radionuclides with activities corresponding to thresholds of concern that is essentially identical to the list found in the

proposed Appendix P to be added to 10 CFR Part 110. While the radionuclides and threshold quantities are the same, the proposed Part 110 appendix uses the more encompassing term "radioactive material" rather than "sources." Therefore, unlike the Code of Conduct, the proposed rule encompasses the import and export shipments of bulk radioactive material, in addition to sealed sources.

The U.S. Government has formally notified the Director General of the IAEA of its support for the Code of Conduct. Although the Code does not have the stature of an international treaty, and its provisions are non-binding on IAEA member Countries, the Commission nevertheless believes it is essential for NRC to update its export/import regulations to incorporate the Code of Conduct recommendations consistent with our responsibilities under the Atomic Energy Act and the NRC's mission of ensuring the common defense and security. This proposed rule is intended to do so.

Discussion

The Nuclear Regulatory Commission proposes to require specific licenses for the export and import of high-risk radioactive material. This proposed rule follows the guidance contained in the IAEA's Code of Conduct and is consistent with the recommendations in the Code's section on "Import and Exports of Radioactive Sources" (paragraphs 23-29). This section of the Code is intended to guide countries in the development and harmonization of policies and laws on international movements of high-risk radioactive sources to ensure their safe and secure handling. A basic principle of the Code of Conduct is that international movements of such radioactive material should take place with the prior notification of the exporting and importing countries. Additionally, international movements of Category 1 quantities of such material

require the consent of the importing country. While prior notification by the exporter or importer is required for each export or import shipment, consents must be government to government. The Code of Conduct contemplates that, other than in exceptional circumstances, a receiving country should not permit the import of high-risk radioactive material unless it has the technical and administrative capability, resources and regulatory structure needed to ensure that the radioactive material will be managed in a manner consistent with the provisions of the Code. The proposed rule requirements would apply to all identified licensees, both NRC and Agreement State.

The specific radioactive material and amounts defined as high-risk are listed in the proposed Appendix P to Part 110 and are essentially identical to the list of high-risk radioactive materials in Table 1 attached to the Code of Conduct. With the exception of plutonium, the high-risk radioactive materials listed in Appendix P are categorized as byproduct material as defined in the Atomic Energy Act of 1954, as amended. Although Radium-226 is encompassed by the Code of Conduct, it is not listed in Appendix P or covered by the proposed regulation because radium, as a naturally occurring radioactive material, is not subject to NRC's licensing authority. However, radium-226 is subject to export/import controls administered by the Department of Commerce. It should be noted that, in response to NRC's request for information, to date no NRC or Agreement State licensee reported possessing, importing, or exporting Category 1 or 2 amounts of radium.

Exports. Under the Atomic Energy Act of 1954, as amended, and 10 CFR Part 110, the principal criterion for approving exports of the materials listed in Appendix P is a finding that the export is not inimical to the common defense and security of the United States. The non-inimicality finding is relevant to both the nuclear proliferation significance of exports and the

related security concerns of high-risk radioactive material falling into the hands of non-state organizations, including terrorist groups. In making its inimicality determination, the Commission will, consistent with the Code's guidance, consider whether the importing country has the long-term technical and administrative capability and the resources and regulatory structure to manage the high-risk radioactive material in a secure manner, and has authorized the recipient to receive and possess this material. For proposed exports of Category 1 amounts of high-risk radioactive material listed in Appendix P, the Commission will also assess whether the importing country has provided formal governmental consent for the import. The Commission will require the applicant for the export license to provide it with pertinent documentation demonstrating that the recipient of the radioactive material has the necessary authorization under the laws and regulations of the importing country to import, receive, and possess the material. In making these decisions, the Commission may seek the advice of the Executive Branch. Consistent with the Code, where a receiving state may be lacking in technical and administrative capability, resources, or regulatory structure, the Commission will, in exceptional circumstances, also consider as part of its overall inimicality determination whether an alternative arrangement has been made to manage the radioactive material in a safe and secure manner. In examining these and other factors that may be pertinent to assessing whether the proposed export will be inimical to the U.S. common defense and security, the Commission will take into account information it receives as part of regular interactions with its foreign regulatory counterparts, the IAEA, and the Executive Branch. The Commission anticipates that further guidance on what constitutes "exceptional circumstances" and other aspects of the Code will be set forth in the IAEA guidance document discussed above. Finally, because security concerns applicable to non-state organizations arise primarily

during transportation to the foreign recipient and its use abroad, the proposed changes to Part 110 will require prior notification by U.S. exporters to the importing country and NRC of individual shipments.

Imports. For imports, the licensing criteria are (1) non-inimicality to the U.S. common defense and security and (2) a finding that the import does not constitute an unreasonable risk to the public health and safety. All recipients in the U.S. must be properly authorized by the NRC, an Agreement State, or the Department of Energy to possess such radioactive material. Therefore, the proposed changes to Part 110 for imports under NRC's licensing authority of high-risk radioactive material will simply require (1) confirmation by the NRC that the U.S. recipient is properly authorized to receive and possess the radioactive material and (2) prior notification to the NRC of individual shipments. The Commission will expect the applicant for the import license to provide it with pertinent documentation that each recipient of the radioactive material has the necessary authorization to receive and possess this material. For proposed imports into the U.S. of Category 1 amounts of high-risk radioactive material listed in Appendix P, the Commission will also be responsible for providing formal U.S. Government consent to the export authority of the exporting country.

Conclusion. The criteria and proposed guidelines for approving specific export and import licenses for high-risk radioactive material will provide the Commission with the necessary flexibility to process each application on a case by case basis. For example, the Commission may wish to limit exports to new recipients or to a country with limited experience with its regulatory infrastructure to single shipments of radioactive material. On the other hand, in countries with mature regulatory infrastructures with known and competent recipients, the Commission intends to use the provisions of §110.31(e) by issuing broad specific export and import licenses that allow shipments of multiple radionuclides to multiple destinations and with

authorizations for up to five years or more. The duration of the import or export authorization will be consistent with the expiration date of the recipient's authorization to possess or use the radioactive material. However, each shipment under these broad export/import licenses that meet or exceed the Category 2 limits in Appendix P will require advance notification as discussed above¹.

Implementing Date

The final rule will have an implementation date which will allow a period of six months for exporters and importers to apply for and receive required specific export and import licenses.

Summary

The proposed changes to the Commission's export/import regulations in Part 110 apply to a small number of high-risk radioactive materials when exported or imported in amounts exceeding clearly defined limits. They also provide the Commission with flexibility to treat each export and import license application on a case-by-case basis, with the ability to accommodate the still evolving domestic and international security measures for high-risk radioactive material.

Section by Section Analysis

Subpart C - Licenses. Proposed changes would indicate that all exports and imports of high-risk radioactive material listed in a new Appendix P to this Part require specific licenses if amounts involved meet or exceed that set out in that appendix.

In §110.23, paragraph (a)(3) would clarify that individual export shipments of americium-241 under a general license must be less than the amounts specified in Category 2 of Appendix P to this Part. (Currently, this section authorizes individual shipments of several 20 curie

¹The more restrictive requirements for the export of plutonium 238 and 239 contained in § 110.21 will continue to be the limiting controls.

quantities of americium-241 to most countries as long as the 200 curie per country limit is not exceeded.) Also, a new paragraph (a)(7) would require that individual export shipments of the high-risk radioactive material listed in a new Appendix P to this Part and conducted under the general license provisions of this paragraph be below the amounts indicated for Category 2.

In §110.27, a new paragraph (f) would require that individual import shipments of highrisk radioactive material listed in a new Appendix P to this Part and conducted under the general license provisions of this paragraph be below the amounts indicated for Category 2.

In §110.32, a new paragraph (h) is added to clarify documentation requirements accompanying an export license application for radioactive material listed in proposed new Appendix P.

Subpart D - Review of License Applications. Proposed changes would indicate licensing criteria for high-risk radioactive material exports and imports.

In §110.42 a new paragraph (e) would specify the licensing criteria for the export of high-risk radioactive material listed in a new Appendix P to this Part in amounts indicated for Categories 1 and 2.

In §110.43 a new paragraph (e) would specify the licensing criteria for the import of high-risk radioactive material listed in a new Appendix P to this Part in amounts indicated for Categories 1 and 2.

In §110.45 a new paragraph (b)(5) would describe the requirements for issuing import licenses for high-risk radioactive material listed in a new Appendix P to this Part in amounts specified in Categories 1 and 2.

Subpart E - License Terms and Related Provisions. Proposed changes would clarify that transportation issues are covered by NRC's domestic regulations.

In §110.50, a new paragraph (b)(4) would be added covering advance notification

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requirements. Also, the word "transport" would be added after "use" in paragraph (a)(3); and

the number "71" would be added after "70" in (renumbered) paragraph (b)(5). This would clarify

that "transportation" is not covered directly in Part 110 and to indicate that 10 CFR Part 71 of

NRC's domestic regulations cover transportation.

A new Appendix P to Part 110 would list the high-risk radioactive material and quantities

requiring specific export and import licenses.

Agreement State Compatibility

Since NRC has sole authority for the import and export of material, the compatibility

category for this rule is "NRC." The compatibility category "NRC" means the rule is adopted

and implemented solely by NRC concerning import and exports of material by both NRC and

Agreement State licensees. Therefore there is no requirement for Agreement States to adopt

this rule.

Voluntary Consensus Standards

The National Technology Transfer Act of 1995, Pub. L.104-113, requires that Federal

agencies use technical standards that are developed or adopted by voluntary consensus

standards bodies unless the use of such a standard is inconsistent with applicable law or

otherwise impractical. There are no voluntary consensus standards addressing this subject

matter.

Environmental Impact: Categorical Exclusion

The NRC has determined that this proposed rule is the type of action described in categorical exclusion 10 CFR 51.22(c)(1). Therefore, neither an environmental impact statement nor an environmental assessment has been prepared for this rule.

Paperwork Reduction Act Statement

This proposed rule contains information collection requirements that are subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq). This rule has been submitted to the Office of Management and Budget for review and approval of the information collection requirements.

The burden to the public for these information collections is estimated to average 2 hours per application and 15 minutes per notification, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. The U.S. Nuclear Regulatory Commission is seeking public comment on the potential impact of the information collections contained in the proposed rule and on the following issues:

- Is the proposed information collection necessary for the proper performance of the functions of the NRC, including whether the information will have practical utility?
- 2. Is the estimate of burden accurate?
- 3. Is there a way to enhance the quality, utility, and clarity of the information to be collected?
- 4. How can the burden of the information collection be minimized, including the use of automated collection techniques?

Send comments on any aspect of these proposed information collections, including suggestions for reducing the burden, to the Records and FOIA/Privacy Services Branch (T-5

F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet electronic mail to INFOCOLLECTS@NRC.GOV; and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0036), Office of Management and Budget, Washington, DC 20503.

Comments to OMB on the information collections or on the above issues should be submitted by (insert date 30 days after publication in the <u>Federal Register</u>). Comments received after this date will be considered if it is practical to do so, but assurance of consideration cannot be given to comments received after this date.

Public Protection Notification

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid OMB control number.

Regulatory Analysis

The Commission has prepared a regulatory analysis on this proposed regulation. The analysis examines the costs and benefits of the alternatives considered by the Commission. The regulatory analysis is available for inspection in the NRC Public Document Room, 11555 Rockville Pike, Rockville, MD 20852. Single copies of the analysis may be obtained from the Office of International Programs, U.S. Nuclear Regulatory Commission, at 301-415-2333 or by e-mail at <ssh@nrc.gov>. The Commission requests public comment on the regulatory analysis. Comments on the analysis may be submitted to the NRC as indicated under the ADDRESSES heading.

Regulatory Flexibility Certification

As required by the Regulatory Flexibility Act of 1980 (5 U.S.C. 605(b)), the Commission certifies that this proposed rule does not have a significant impact on a substantial number of small entities. This rule is necessary to reflect the nuclear and radioactive material security policies of the Executive Branch and to comply with evolving international agreements to which the U.S. Government subscribes.

Backfit Analysis

The NRC has determined that the backfit rule does not apply to this proposed rule and a backfill analysis is not required, because these amendments do not involve any provisions that would impose backfits as defined in 10 CFR Chapter I. The rule does not constitute a backfit rule because it does not propose any changes or additions to requirements for existing structures, systems, components, procedures, organizations or designs associated with the construction or operation of a facility.

List of Subjects in 10 CFR Part 110

Administrative practice and procedure, Classified information, Criminal penalties, Exports, Imports, Incorporation by reference, Intergovernmental relations, Nuclear and radioactive materials, Nuclear power plants and reactors, Reporting and recordkeeping requirements, Scientific equipment.

For the reasons set out in the preamble and under the authority of the Atomic Energy Act of 1954, as amended; the Energy Reorganization Act of 1974, as amended; and 5 U.S.C. 553; notice is hereby given that the NRC is proposing to adopt the following amendments to 10 CFR Part 110.

PART 110--EXPORT AND IMPORT OF NUCLEAR EQUIPMENT AND MATERIAL

1. The authority citation for part 110 continues to read as follows:

Authority: Secs. 51, 53, 54, 57, 63, 64, 65, 81, 82, 103, 104, 109, 111, 126, 127, 128, 129, 161, 181, 182, 183, 187, 189, 68 Stat. 929, 930, 931, 932, 933, 936, 937, 948, 953, 954, 955, 956, as amended (42 U.S.C. 2071, 2073, 2074, 2077, 2092-2095, 2111, 2112, 2133, 2134, 2139, 2139a, 2141, 2154-2158, 2201, 2231-2233, 2237, 2239); sec. 201, 88 Stat. 1242, as amended (42 U.S.C. 5841); sec. 5, Pub. L. 101-575, 104 Stat. 2835 (42 U.S.C. 2243); sec. 1704, 112 Stat. 2750 (44 U.S.C. 3504 note).

Sections 110.1(b)(2) and 110.1(b)(3) also issued under Pub. L. 96-92, 93 Stat. 710 (22 U.S.C. 2403). Section 110.11 also issued under sec. 122, 68 Stat. 939 (42 U.S.C. 2152) and secs. 54c and 57d, 88 Stat. 473, 475 (42 U.S.C. 2074). Section 110.27 also issued under sec. 309(a), Pub. L. 99-440. Section 110.50(b)(3) also issued under sec. 123, 92 Stat. 142 (42 U.S.C. 2153). Section 110.51 also issued under sec. 184, 68 Stat. 954, as amended (42 U.S.C. 2234). Section 110.52 also issued under sec. 186, 68 Stat. 955 (42 U.S.C. 2236). Sections 110.80-110.113 also issued under 5 U.S.C. 552, 554. Sections 110.130-110.135 also issued under 5 U.S.C. 553. Sections 110.2 and 110.42(a)(9) also issued under sec. 903, Pub. L. 102-496 (42 U.S.C. 2151 et seq.).

- 2. In §110.23, paragraph (a)(3) is revised and a new paragraph (a)(7) is added to read as follows:
- §110.23 General license for the export of byproduct material.
 - (a) * *
- (3) For americium-241, exports must not exceed one curie (308 milligrams) per shipment or 100 curies (30.8 grams) per year to any country listed in §110.29, and must be

contained in industrial process control equipment or petroleum exploration equipment in									
individual shipments less than the amounts specified in Category 2 of Appendix P to this Part.									
	*	*	*	*	*				
(7)	(7) Individual export shipments of byproduct material must be less than the amounts								
specified in Category 2 of Appendix P to this Part.									
	*	*	*	*	*				
3.	In §110.27, the	e introductory to	ext of paragra	oh (a) is revised	I and paragraph (f) is				
added to r	ead as follows:								
§110.27 (General license	for import.							
(a)	Except as pro	vided for in par	ragraphs (b), (c), and (f) of thi	s section, a general				
license is issued to any person to import byproduct, source, or special nuclear material if the									
consignee is authorized to possess the material under:									
	*	*	*	*	*				
(f)	Individual imp	ort shipments o	of radioactive r	material must be	e less than the amounts				
specified in Category 2 of Appendix P to this Part.									
4. In §110.32, a new paragraph (g) is added to read as follows:									
§110.32 I	nformation req	uired in an app	lication for a s	pecific license/N	NRC Form 7.				
	*	*	*	*	*				
(g)		* exports of mate		* ppendix P to th	* is part, pertinent				
	For proposed	·	erial listed in A						

5. In §110.42, paragraphs (e) and (f) are added to read as follows:

§110.42	Export	licensing	criteria.
.3		11001101119	or itoria.

* * * *

- (e) In making its findings under paragraphs (a)(8) and (c) of this section for proposed exports of radioactive material listed in Appendix P to this Part, the Commission shall consider whether:
- (1) The receiving country has the appropriate technical and administrative capability, resources and regulatory structure to manage the material in a secure manner; and
 - (2) The foreign recipient is authorized to receive and possess the material; and
- (3) For proposed exports of Category 1 amounts of radioactive material listed in Appendix P to this Part, the receiving country consents to the import of the material; or
- (4) In exceptional circumstances, that an alternative arrangement has been made to manage the material in a safe and secure manner.
 - 7. In §110.43, paragraph (e) is added to read as follows:

§110.43 Import licensing criteria.

* * * * *

(e) With respect to the import of radioactive material listed in Appendix P to this Part, the U.S. recipient is authorized to possess the material under a contract with the Department of Energy or a license issued by the Commission or a State with which the Commission has entered into an agreement under Section 274b. of the Atomic Energy Act.

8. In §110.45, paragraph (b)(5) is added to read as follows:

§110.45 Issuance or denial of license.

* * * * *

(b) * * *

- (5) With respect to a proposed import of radioactive material listed in Appendix P to this Part, the U.S. recipient is authorized to possess the material under a contract with the Department of Energy or a license issued by the Commission or a State with which the Commission has entered into an agreement under Section 274b. of the Atomic Energy Act.
 - 9. Section 110.50 is amended as follows:
 - a. In paragraph (a)(3), add "transport" after the word "use,"
 - b. Paragraphs (b)(4) and (b)(5) are redesignated as (b)(5) and (b)(6),
 - c. Add the number "71" after "70" in newly redesignated paragraph (b)(5), and
 - d. Add a new paragraph (b)(4) to read as follows:

§110.50 Terms

* * * * *

(b)* * *

(4) A licensee authorized to export or import material listed in Appendix P to this Part is responsible for notifying NRC and the importing country in advance of each shipment. A list of points of contacts in importing countries is available at NRC's Office of International Programs (see §110.4). The NRC office responsible for receiving advance notifications for all export and import shipments will be specified on each specific export and import license. Notifications

must be made at least 24 hours in advance of each shipment, and to the extent practical, 10 days in advance of each shipment. Notifications may be electronic or in writing and should contain the following information:

- (i) A copy of the authorization applicable to export shipments as required by §110.42, paragraph (e)(2),
 - (ii) Estimated dates of when the shipment is to begin and end,
 - (iii) Exporting or importing facility,
 - (iv) Recipient,
 - (v) Radioactive material and specific activity,
 - (vi) Aggregate activity level, and
- (vii) Number of radioactive sources and their unique identifiers (such as the manufacturer, model number and serial number). If the unique identifiers are not available, a description of the radioactive source shall be provided.

* * * * *

10. A new Appendix P to part 110 is added to read as follows:Appendix P to Part 110 – High Risk Radioactive Material

	Category 1			
Radioactive	Terabequerels	Curies T	erabequerels	Curies
Material	(TBq)	(Ci)	(Tbq)	(Ci)
Americium-241:	60	2,000	.6	20
Americium-241/Be:	60	2,000	.6	20
Californium-252:	20	500	.2	5
Curium-244:	50	1,000	.5	10
Cobalt-60:	30	800	.3	8
Cesium-137:	100	3,000	1	30
Gadolinium-153:	1,000	30,000	10.0	300
Iridium-192:	80	2,000	.8	20
Plutonium-238 ¹	60	2,000	.6	20
Plutonium-239/Be ¹	60	2,000	.6	20
Promethium-147:	40,000	1,000,000	400.0	10,000
Selenium-75:	200	5,000	2.0	50
Strontium-90:	1,000	30,000	10.0	300
Thulium-170:	20,000	500,000	200.0	5000
Ytterbium-169:	300	8,000	3.0	80

Dated at Rockville, Maryland, this --- day of ---- 2004 For the Nuclear Regulatory Commission.

> Annette L. Vietti-Cook, Secretary of the Commission

¹The limits for Pu-238 and Pu-239/Be in this table apply for imports to the U.S. The limits for exports of Pu-238 and Pu-239/Be can be found in § 110.21.