

**VIRGINIA RMP Regulations  
NRC RATS ID 2013-2 Correction  
NRC 2015-1 thru 5 Comparisons (due 2018)**

<b>RATS ID</b>	<b>Change to NRC Section</b>	<b>Title</b>	<b>State Section</b>	<b>Compatibility Category</b>	<b>Summary of Change to CFR</b>
2013-2	§ 40.55(d)	Conditions of licenses to initially transfer source material for use under the 'small quantities of source material' general license: Quality control, labeling, safety instructions, and records and reports	12VAC5-481-421.B. 4	B	<p>Virginia needs to replace "Director, Office of Federal and State Materials and Environmental Management Programs," with "Director, Office of Nuclear Material Safety and Safeguards," in 12 VAC 5-481-421 B.4.</p> <p>Virginia needs to make the above change in order to meet the Compatibility Category B designation assigned to 10 CFR 40.55(d).</p>

RATS ID	Change to NRC Section	Title	State Section	Compatibility Category	Summary of Change to CFR
2015-1	§ 70.50(c)(2)	Reporting requirements	12VAC5-481-1110.C.10	C	<p><b>In § 70.50, revise the introductory text of paragraph (c)(2) to read as follows:</b></p> <p>(c) * * *</p> <p>(2) Written report. Each licensee that makes a report required by paragraph (a) or (b) of this section shall submit a written follow-up report within 30 days of the initial report.</p>
2015-1	§ 70.74(b)	Additional reporting requirements	Not Applicable – NRC Only	NRC	<p><b>In § 70.74, revise paragraph (b) to read as follows:</b></p> <p>(b) Written reports. Each licensee that makes a report required by paragraph (a)(1) of this section shall submit a written follow-up report within 60 days of the initial report. The written report must be sent to the NRC’s Document Control Desk, using an appropriate method listed in §70.5(a), with a copy to the appropriate NRC regional office listed in Appendix D to part 20 of this chapter. The reports must include the information as described in § 70.50(c)(2)(i) through (iv).</p>
2015-1	Appendix A, 10 CFR Part 70	Reportable safety events	Not Applicable – NRC Only	NRC	<p><b>In Appendix A to Part 70 amend as follows:</b></p> <p>a. In the introductory text to paragraph (a), removing the number “30” and adding, in its place, the number “60”;</p> <p>b. Removing paragraph (a)(5);</p> <p>c. In the introductory text to paragraph (b), removing the number “30” and adding, in its place, the number “60”; and</p> <p>d. Removing paragraph (b)(5).</p>

RATS ID	Change to NRC Section	Title	State Section	Compatibility Category	Summary of Change to CFR
2015-2	§ 30.4	Definitions	Not Applicable – NRC Only	NRC	In § 30.4, remove the definition for “Quantities of Concern.”
2015-2	§ 30.32(k)	Application for specific licenses	Not Applicable – NRC Only	NRC	In § 30.32, remove paragraph (k).
2015-2	§ 30.34(l)	Terms and conditions of licenses	Not Applicable – NRC Only	NRC	In § 30.34, remove paragraph (l).
2015-2	§ 37.29(a)(10)	Relief from fingerprinting, identification, and criminal history records checks and other elements of background investigations for designated categories of individuals permitted unescorted access to certain radioactive materials	12VAC5-481-451.B.5.a(10)	B	<p>In § 37.29, revise paragraph (a)(10) to read as follows:</p> <p>(a) * * *</p> <p><b>(10) Commercial vehicle drivers for road shipments of category 1 and category 2 quantities of radioactive material;</b></p>

2015-2	§ 37.43(d)(1)	General security program requirements	12VAC5-481-451.C.2.d(1) PREVIOUSLY INCORPORATED	C	In § 37.43, revise paragraph (d)(1) to read as follows:  (d) Protection of information. (1) Licensees authorized to possess category 1 or category 2 quantities of radioactive material shall limit access to and unauthorized disclosure of their security plan, implementing procedures, and the list of individuals that have been approved for unescorted access.
2015-2	§ 37.43(d)(9)	General security program requirements	Not Applicable – NRC Only	NRC	In § 37.43, remove paragraph (d)(9).
2015-2	§ 37.77(f)	Advance notification of shipment of category 1 quantities of radioactive material	12VAC5-481-451.D.4.f	C	In § 37.77, revise paragraph (f) to read as follows:  (f) Protection of information. State officials, State employees, and other individuals, whether or not licensees of the Commission or an Agreement State, who receive schedule information of the kind specified in § 37.77(b) shall protect that information against unauthorized disclosure as specified in § 37.43(d) of this part.
2015-2	§ 73.2	Definitions	Not Applicable – NRC Only	NRC	In § 73.2, remove the definition for “Quantities of Concern.”

2015-2	§ 73.21	Protection of safeguards information: performance requirements	Not Applicable – NRC Only	NRC	<p><b>In § 73.21, revise paragraph (a)(1)(ii) to read as follows:</b></p> <p>(a) * * *</p> <p>(1) * * *</p> <p>(ii) Establish, implement, and maintain an information protection system that includes the applicable measures for Safeguards Information specified in § 73.23 related to: research and test reactors that possess special nuclear material of moderate strategic significance or special nuclear material of low strategic significance.</p>
2015-2	§ 73.23	Protection of safeguards information-modified handling: specific requirements	Not Applicable – NRC Only	NRC	<p><b>In § 73.23, revise the introductory text and paragraph (a)(2) to read as follows:</b></p> <p>This section contains specific requirements for the protection of Safeguards Information in the hands of any person subject to the requirements of § 73.21(a)(1)(ii) and research and test reactors that possess special nuclear material of moderate strategic significance or special nuclear material of low strategic significance. The requirements of this section distinguish Safeguards Information requiring modified handling requirements (SGI–M) from the specific Safeguards Information handling requirements applicable to facilities and materials needing a higher level of protection, as set forth in § 73.22.</p> <p>(a) * * *</p> <p>(2) Physical protection in transit. Information not classified as Restricted Data or National Security Information related to the physical protection of shipments of special nuclear material in less than a formula quantity (except for those materials covered under § 73.22), including:</p>

<b>2015-2</b>	Appendix I, Part 73	Category 1 and category 2 radioactive materials	Not Applicable – NRC Only	NRC	<b>Remove Appendix I to Part 73, Table of Quantities of Concern Threshold Limits.</b>
<b>2015-2</b>	§ 150.15(a)(9)	Persons not exempt	Not Applicable – NRC Only	NRC	<b>In § 150.15, remove paragraph (a)(9).</b>

RATS ID	Change to NRC Section	Title	State Section	Compatibility Category	Summary of Change to CFR
2015-3	§ 71.0(d)(1) Revised	Purpose and Scope	Not Applicable – NRC Only, D compatibility	D	<b>In § 71.0, paragraph (d)(1), remove the reference “§§ 71.20 through 71.23” and add, in its place, the reference “§§ 71.21 through 71.23”.</b>
2015-3	§ 71.4 New	Definition: Contamination	12VAC5-481-10, Contamination	[B]	<b>In § 71.4, add the definition of “contamination” to read as follows:</b> <i>Contamination</i> means the presence of a radioactive substance on a surface in quantities in excess of 0.4 Bq/cm <sup>2</sup> (1x10 <sup>-5</sup> µCi/cm <sup>2</sup> ) for beta and gamma emitters and low toxicity alpha emitters, or 0.04 Bq/cm <sup>2</sup> (1x10 <sup>-6</sup> µCi/cm <sup>2</sup> ) for all other alpha emitters. (1) <i>Fixed contamination</i> means contamination that cannot be removed from a surface during normal conditions of transport. (2) <i>Non-fixed contamination</i> means contamination that can be removed from a surface during normal conditions of transport.
2015-3	§ 71.4 Revised	Definition: Criticality Safety Index (CSI)	12VAC5-481-10, Criticality Safety Index	[B]	<b>In § 71.4, revise the definition of “Criticality Safety Index (CSI)” to read as follows:</b> <i>Criticality Safety Index (CSI)</i> means the dimensionless number (rounded up to the next tenth) assigned to and placed on the label of a fissile material package, to designate the degree of control of accumulation of packages, overpacks or freight containers containing fissile material during transportation. Determination of the criticality safety index is described in §§ 71.22, 71.23, and 71.59. The criticality safety index for an overpack, freight container, consignment or conveyance containing fissile material packages is the arithmetic sum of the criticality safety indices of all the fissile material packages contained within the overpack, freight container, consignment or conveyance

2015-3	§ 71.4 Revised	Definition: Low Specific Activity (LSA) material	12VAC5-481-10 See "Low specific activity material" 3. LSA- III.c	[B]	<p><b>In § 71.4, revise the definition of "Low Specific Activity (LSA) material" to read as follows:</b></p> <p><i>Low Specific Activity (LSA) material</i> means radioactive material with limited specific activity which is nonfissile or is excepted under § 71.15, and which satisfies the descriptions and limits set forth in the following section. Shielding materials surrounding the LSA material may not be considered in determining the estimated average specific activity of the package contents. The LSA material must be in one of three groups:</p> <p>(1) LSA-I.</p> <p>(i) Uranium and thorium ores, concentrates of uranium and thorium ores, and other ores containing naturally occurring radionuclides that are intended to be processed for the use of these radionuclides;</p> <p>(ii) Natural uranium, depleted uranium, natural thorium or their compounds or mixtures, provided they are unirradiated and in solid or liquid form;</p> <p>(iii) Radioactive material other than fissile material, for which the A<sub>2</sub> value is unlimited; or</p> <p>(iv) Other radioactive material in which the activity is distributed throughout and the estimated average specific activity does not exceed 30 times the value for exempt material activity concentration determined in accordance with appendix A.</p> <p>(2) LSA-II.</p> <p>(i) Water with tritium concentration up to 0.8 TBq/liter (20.0 Ci/liter); or</p> <p>(ii) Other radioactive material in which the activity is distributed throughout and the estimated average specific activity does not exceed 10<sup>-4</sup> A<sub>2</sub>/g for solids and gases, and 10<sup>-5</sup> A<sub>2</sub>/g for liquids.</p> <p>(3) LSA-III. Solids (e.g., consolidated wastes, activated materials), excluding powders, that satisfy the requirements of § 71.77, in which:</p> <p>(i) The radioactive material is distributed throughout a solid or a collection of solid objects, or is essentially uniformly distributed in a solid compact binding agent (such as concrete, bitumen, ceramic, etc.);</p> <p>(ii) The radioactive material is relatively insoluble, or it is</p>
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					<p>intrinsically contained in a relatively insoluble material, so that even under loss of packaging, the loss of radioactive material per package by leaching when placed in water for 7 days will not exceed 0.1 A2; and</p> <p>(iii) The estimated average specific activity of the solid, excluding any shielding material, does not exceed <math>2 \times 10^{-3}</math> A2/g.</p>
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2015-3	§ 71.4 Revised	Definition: Special form radioactive material	12VAC5-481-10, "Special form radioactive material"	[B]	<p><b>In § 71.4, revise the definition of "Special form radioactive material" to read as follows:</b></p> <p><i>Special form radioactive material</i> means radioactive material that satisfies the following conditions:</p> <p>(1) It is either a single solid piece or is contained in a sealed capsule that can be opened only by destroying the capsule;</p> <p>(2) The piece or capsule has at least one dimension not less than 5 mm (0.2 in); and</p> <p>(3) It satisfies the requirements of §71.75. A special form encapsulation designed in accordance with the requirements of § 71.4 in effect on June 30, 1983 (see 10 CFR part 71, revised as of January 1, 1983), and constructed before July 1, 1985; a special form encapsulation designed in accordance with the requirements of § 71.4 in effect on March 31, 1996 (see 10 CFR part 71, revised as of January 1, 1996), and constructed before April 1, 1998; and special form material that was successfully tested before September 10, 2015 in accordance with the requirements of § 71.75(d) of this section in effect before September 10, 2015 may continue to be used. Any other special form encapsulation must meet the specifications of this definition</p>
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2015-3	§ 71.4 Revised	Definition: Uranium – natural, depleted, enriched	12VAC5-481-10, "Uranium - natural, depleted, enriched" Item 1.	[B]	<p><b>In § 71.4, revise the definition of “Uranium—natural, depleted, enriched” to read as follows:</b></p> <p><i>Uranium – natural, depleted, enriched.</i></p> <p>(1) Natural uranium means uranium (which may be chemically separated) with the naturally occurring distribution of uranium isotopes (approximately 0.711 weight percent uranium-235 and the remainder by weight essentially uranium-238).</p> <p>(2) Depleted uranium means uranium containing less uranium-235 than the naturally occurring distribution of uranium isotopes.</p> <p>(3) Enriched uranium means uranium containing more uranium-235 than the naturally occurring distribution of uranium isotopes.</p>
2015-3	§ 71.6 Revised	Information Collection Requirements: OMB Approval	Not Applicable – NRC Only, D compatibility	D	<p><b>In § 71.6, revise paragraph (b) to read as follows:</b></p> <p>(b) The approved information collection requirements contained in this part appear in §§ 71.5, 71.7, 71.9, 71.12, 71.17, 71.19, 71.22, 71.23, 71.31, 71.33, 71.35, 71.37, 71.38, 71.39, 71.41, 71.47, 71.85, 71.87, 71.89, 71.91, 71.93, 71.95, 71.97, 71.101, 71.103, 71.105, 71.106, 71.107, 71.109, 71.111, 71.113, 71.115, 71.117, 71.119, 71.121, 71.123, 71.125, 71.127, 71.129, 71.131, 71.133, 71.135, 71.137, and appendix A, paragraph II.</p>

2015-3	§ 71.14(a)(1) – (a)(3) Revised, New	Exemption for low-level materials	12VAC5-481-2970.B.1-3	[B]	<p><b>In § 71.14, revise paragraphs (a)(1) and (2), and add paragraph (a)(3) to read as follows:</b></p> <p>(a) * * *</p> <p>(1) Natural material and ores containing naturally occurring radionuclides that are either in their natural state, or have only been processed for purposes other than for the extraction of the radionuclides, and which are not intended to be processed for the use of these radionuclides, provided the activity concentration of the material does not exceed 10 times the applicable radionuclide activity concentration values specified in appendix A, Table A-2, or Table A-3 of this part.</p> <p>(2) Materials for which the activity concentration is not greater than the activity concentration values specified in appendix A, Table A-2, or Table A-3 of this part, or for which the consignment activity is not greater than the limit for an exempt consignment found in appendix A, Table A-2, or Table A-3 of this part.</p> <p>(3) Non-radioactive solid objects with radioactive substances present on any surfaces in quantities not in excess of the levels cited in the definition of contamination in § 71.4.</p>
2015-3	§ 71.15(d) Revised	Exemption from classification as fissile material	12VAC5-481-2970.C.4	[B]	<p><b>In § 71.15, revise paragraph (d) to read as follows:</b></p> <p>(d) Uranium enriched in uranium-235 to a maximum of 1 percent by weight, and with total plutonium and uranium-233 content of up to 1 percent of the mass of uranium-235, provided that the mass of any beryllium, graphite, and hydrogenous material enriched in deuterium constitutes less than 5 percent of the uranium mass, and that the fissile material is distributed homogeneously and does not form a lattice arrangement within the package.</p>
2015-3	§ 71.17 Revised, Removal of Brackets on Compatibility	General license: NRC approved package	12VAC5-481-3000  Incorporated Agreement State contact info.	B  Note: The Compatibility Category for §71.17	<p><b>The Compatibility Category for all of § 71.17 has changed from [B] to B signifying that Agreement States should ensure that they have regulations compatible with this section that are collocated with their transportation regulations.</b></p>

	Category.			<p>has changed from [B] to B.</p> <p><b>**Reviewer note:</b> Agreement States should replace the noted reference(s) to the NRC/Commission with their corresponding Agency information.</p>	<p><b>§ 71.17, revise paragraph (c) to read as follows:</b></p> <p>(a) A general license is issued to any licensee of the Commission** to transport, or to deliver to a carrier for transport, licensed material in a package for which a license, certificate of compliance (CoC), or other approval has been issued by the NRC.</p> <p>(b) This general license applies only to a licensee who has a quality assurance program approved by the Commission** as satisfying the provisions of subpart H of this part.</p> <p>(c) Each licensee issued a general license under paragraph of this section shall—</p> <p>(1) Maintain a copy of the Certificate of Compliance, or other approval of the package, and the drawings and other documents referenced in the approval relating to the use and maintenance of the packaging and to the actions to be taken before shipment;</p> <p>(2) Comply with the terms and conditions of the license, certificate, or other approval, as applicable, and the applicable requirements of subparts A, G, and H of this part; and</p> <p>(3) Submit in writing before the first use of the package to:  ATTN: Document Control  Desk, Director, Division of Spent Fuel Storage and Transportation, Office of Nuclear Material Safety and Safeguards**, using an appropriate method listed in § 71.1(a), the licensee's name and license number and the package identification number specified in the package approval.</p> <p>(d) This general license applies only when the package approval authorizes use of the package under this general license.</p> <p>(e) For a Type B or fissile material package, the design of which was approved by NRC before April 1, 1996, the general license is subject to the additional restrictions of § 71.19.</p>
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2015-3	§ 71.19 Revised	Previously approved package	Not Applicable – NRC Only	NRC	<p><b>In § 71.19, redesignate paragraphs (b) through (e) as paragraphs (a) through (d), and revise newly redesignated paragraph (b)(2) to read as follows:</b></p> <p>(b) * * *</p> <p>(2) A package used for a shipment to a location outside the United States is subject to multilateral</p>
2015-3	§ 71.21 Revised, Removal of Brackets on Compatibility Category	General license: Use of foreign approved package	12VAC5-481-3030	<p>B</p> <p>Note: The Compatibility Category for §71.21 has changed from [B] to B.</p> <p>**Reviewer note: Agreement States should replace the noted reference(s) to the NRC/Commission with their corresponding Agency information.</p>	<p><b>The Compatibility Category for all of § 71.21 has changed from [B] to B signifying that Agreement States should ensure that they have regulations compatible with this section that are collocated with their transportation regulations.</b></p> <p><b>In § 71.21, revise paragraphs (a) and (d) to read as follows:</b></p> <p>(a) A general license is issued to any licensee of the Commission** to transport, or to deliver to a carrier for transport, licensed material in a package, the design of which has been approved in a foreign national competent authority certificate, that has been revalidated by the DOT as meeting the applicable requirements of 49 CFR 171.23.</p> <p>(b) Except as otherwise provided in this section, the general license applies only to a licensee who has a quality assurance program approved by the Commission** as satisfying the applicable provisions of subpart H of this part.</p> <p>(c) This general license applies only to shipments made to or from locations outside the United States.</p> <p>(d) Each licensee issued a general license under paragraph (a) of this section shall—</p> <p>(1) Maintain a copy of the applicable certificate, the revalidation, and the drawings and other documents referenced in the certificate, relating to the use and maintenance of the packaging and to the actions to be taken before shipment; and</p> <p>(2) Comply with the terms and conditions of the certificate and revalidation, and with the applicable requirements of subparts A, G, and H of this part.</p>

2015-3	§ 71.31(b) Revised	Contents of application	Not Applicable – NRC Only	NRC	<b>In § 71.31, paragraph (b), remove the reference “§ 71.13” and add, in its place, the reference “§ 71.10.”</b>
2015-3	§ 71.38 Retitled, Revised	Renewal of a certificate of compliance	Not Applicable – NRC Only	NRC	<p><b>Revise § 71.38 to read as follows:</b></p> <p>§ 71.38 Renewal of a certificate of compliance.</p> <p>(a) Except as provided in paragraph (b) of this section, each Certificate of Compliance expires at the end of the day, in the month and year stated in the approval.</p> <p>(b) In any case in which a person, not less than 30 days before the expiration of an existing Certificate of Compliance issued pursuant to the part, has filed an application in proper form for renewal, the existing Certificate of Compliance for which the renewal application was filed shall not be deemed to have expired until final action on the application for renewal has been taken by the Commission.</p> <p>(c) In applying for renewal of an existing Certificate of Compliance, an applicant may</p> <p><del>be required to submit a consolidated application that</del></p>

2015-3	§ 71.70 New	Incorporations by reference	Not Applicable – NRC Only	NRC	<p><b>Add § 71.70 to subpart F to read as follows:</b></p> <p>§ 71.70 Incorporations by reference.</p> <p>(a) The materials listed in this section are incorporated by reference in the corresponding sections noted and made a part of the regulations in part 71. These incorporations by reference were approved by the Director of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. These materials are incorporated as they exist on the date of the approval. A notice of any changes made to the material incorporated by reference will be published in the Federal Register, and the material must be available to the public. The materials can be examined, by appointment, at the NRC's Technical Library, which is located at Two White Flint North, 11545 Rockville Pike, Rockville, Maryland 20852; telephone: 301-415-7000; email: <a href="mailto:Library.Resource@nrc.gov">Library.Resource@nrc.gov</a>. The materials are also available from the sources listed below. All approved material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 1-202-741-6030 or go to <a href="http://www.archives.gov/federal-register/cfr/ibr-locations.html">http://www.archives.gov/federal-register/cfr/ibr-locations.html</a>.</p> <p>(b) International Organization for Standardization, ISO Central Secretariat, Chemin de Blandonnet 8 CP 401, 1214 Vernier, Geneva, Switzerland; email: <a href="mailto:central@iso.org">central@iso.org</a>; phone: +41 22 749 01 11; Web site: <a href="http://www.iso.org">http://www.iso.org</a>.</p>
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2015-3	§ 71.75 Revised	Qualification of special form radioactive material	Not Applicable – NRC Only	NRC	<p><b>In § 71.75, revise paragraphs (a)(5), (b)(2)(ii), (b)(2)(iii), (d)(1), and (d)(2) to read as follows:</b></p> <p>(a) * * *</p> <p>(5) A specimen that comprises or simulates radioactive material contained in a sealed capsule need not be subjected to the leaktightness procedure specified in this section, provided it is alternatively subjected to any of the tests prescribed in ISO 9978:1992(E), “Radiation protection—Sealed radioactive sources—Leakage test methods” (incorporated by reference, see § 71.70).</p> <p>(b) * * *</p> <p>(2) * * *</p> <p>(ii) The flat face of the billet must be 25 millimeters (mm) (1 inch) in diameter with the edge rounded off to a radius of 3 mm ± 0.3 mm (0.12 in ± 0.012 in);</p> <p>(iii) The lead must be hardness number 3.5 to 4.5 on the Vickers scale and not more than 25 mm (1 inch) thick, and must cover an area greater than that covered by the specimen;</p> <p>* * * * *</p> <p>(d) * * *</p> <p>(1) The impact test and the percussion test of this section, provided that the specimen is:</p> <p>(i) Less than 200 grams and alternatively subjected to the Class 4 impact test prescribed in ISO 2919:1999(E), “Radiation protection—Sealed radioactive sources—General requirements and classification” (incorporated by reference, see § 71.70); or</p> <p>(ii) Less than 500 grams and alternatively subjected to the Class 5 impact test prescribed in ISO 2919:1999(E), “Radioactive protection— Sealed radioactive sources— General requirements and classification” (incorporated by reference, see § 71.70); and</p> <p>(2) The heat test of this section, provided the specimen is alternatively subjected to the Class 6 temperature test specified in ISO 2919:1999(E), “Radioactive protection— Sealed radioactive sources— General requirements and classification” (incorporated by reference, see § 71.70).</p>
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2015-3	§71.85(a) – (c) Revised, Compatibility Change	Preliminary determinations	12VAC5-481-3070.4  Virginia’s a – c were previously included in accordance with the B compatibility but were removed since that compatibility changed to NRC only.	NRC  Note: The Compatibility Category for §71.85(a) – (c) has changed from [B] to NRC.	<b>In § 71.85, revise paragraphs (a), (b), and (c) to read as follows:</b> (a) The certificate holder shall ascertain that there are no cracks, pinholes, uncontrolled voids, or other defects that could significantly reduce the effectiveness of the packaging; (b) Where the maximum normal operating pressure will exceed 35 kPa (5 lbf/in <sup>2</sup> ) gauge, the certificate holder shall test the containment system at an internal pressure at least 50 percent higher than the maximum normal operating pressure, to verify the capability of that system to maintain its structural integrity at that pressure; (c) The certificate holder shall conspicuously and durably mark the packaging with its model number, serial number, gross weight, and a package identification number assigned by the NRC. Before applying the model number, the certificate holder shall determine that the packaging has been fabricated in accordance with the design approved by the Commission; and
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2015-3	§ 71.85(d) New	Preliminary determinations	12VAC5-481-3070.5	<p style="text-align: center;">B</p> <p>**Reviewer note: “paragraphs (a) through (c) of this section” refers to 71.85(a) through (c), which are assigned Compatibility Category NRC and must not be adopted by the Agreement States. Consequently, in 71.85(d), Agreement States should reference “10 CFR 71.85(a) through (c)” and not their own regulations.</p>	<p><b>In § 71.85, add paragraph (d) to read as follows:</b> (d) The licensee shall ascertain that the determinations in paragraphs (a) through (c) of this section** have been made.</p>
2015-3	§ 71.91(a) Revised, Compatibility Change	Records	12VAC5-481-3100	<p style="text-align: center;">C</p> <p>Note: The Compatibility Category for § 71.91(a) has changed from D to C.</p>	<p><b>In § 71.91, in paragraph (a) introductory text, remove the reference “§ 71.10” and add, in its place, the reference “§ 71.14.”</b></p>

2015-3	§ 71.91(b) Compatibility Change	Records	Not Applicable – NRC Only	NRC  Note: The Compatibility Category for § 71.91(b) has changed from D to NRC.	<b>The Compatibility Category has changed.</b>  b) Each certificate holder shall maintain, for a period of 3 years after the life of the packaging to which they apply, records identifying the packaging by model number, serial number, and date of manufacture.
2015-3	§ 71.91(c) and (d) Compatibility Change	Records	12VAC5-481-3100	C  Note: The Compatibility Category for § 71.91(c) and (d) has changed from D to C. <b>**Reviewer notes:</b> 1)The phrase “certificate holder, and applicant for a CoC” should be deleted by the Agreement States; Agreement States should replace the noted reference(s) to the NRC/ Commission with their Agency information.	<b>The Compatibility Category has changed.</b>  (c) The licensee, certificate holder, and an applicant for a CoC**, shall make available to the Commission** for inspection, upon reasonable notice, all records required by this part. Records are only valid if stamped, initialed, or signed and dated by authorized personnel, or otherwise authenticated. (d) The licensee, certificate holder, and an applicant for a CoC** shall maintain sufficient written records to furnish evidence of the quality of packaging. The records to be maintained include results of the determinations required by § 71.85; design, fabrication, and assembly records; results of reviews, inspections, tests, and audits; results of monitoring work performance and materials analyses; and results of maintenance, modification, and repair activities. Inspection, test, and audit records must identify the inspector or data recorder, the type of observation, the results, the acceptability, and the action taken in connection with any deficiencies noted. These records must be retained for 3 years after the life of the packaging to which they apply.

2015-3	§ 71.101(a) Revised, Compatibility Change	Quality assurance requirements	12VAC5-481-3130 A	<p>C**</p> <p>Note: The Compatibility Category for § 71.101(a) has changed from D or C to only C.</p> <p>** See last page for additional note.</p> <p>**Reviewer note: the highlighted section should be omitted by the Agreement states as the NRC has sole authority for issuing a CoC.</p>	<p><b>In § 71.101, revise paragraph (a) to read as follows:</b></p> <p>(a) <i>Purpose.</i> This subpart describes quality assurance requirements applying to design, purchase, fabrication, handling, shipping, storing, cleaning, assembly, inspection, testing, operation, maintenance, repair, and modification of components of packaging that are important to safety. As used in this subpart, “quality assurance” comprises all those planned and systematic actions necessary to provide adequate confidence that a system or component will perform satisfactorily in service. Quality assurance includes quality control, which comprises those quality assurance actions related to control of the physical characteristics and quality of the material or component to predetermined requirements.</p> <p>Each certificate holder and applicant for a package approval is responsible for satisfying the quality assurance requirements that apply to design, fabrication, testing, and modification of packaging subject to this subpart.** Each licensee is responsible for satisfying the quality assurance requirements that apply to its use of a packaging for the shipment of licensed material subject to this subpart.</p>
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2015-3	§ 71.101(b) and (c)(1) Compatibility Change	Quality assurance requirements	12VAC5-481-3130 B & C	<p style="text-align: center;">C**</p> <p style="text-align: center;">Note: The Compatibility Category for § 71.101(b) and (c)(1) has changed from D or C to only C.</p> <p style="text-align: center;">** See last page for additional note.</p> <p>***Reviewer notes:  1) the phrase “certificate holder, and applicant for a CoC” should be deleted by the Agreement States as the NRC has sole authority for issuing a Certificate of Compliance;  2) the Agreement States should insert “or Agreement State” where noted and provide their Agency information for notification</p>	<p><b>The Compatibility Category has changed.</b></p> <p><b>(b) Establishment of program. Each licensee, certificate holder, and applicant for a CoC** shall establish, maintain, and execute a quality assurance program satisfying each of the applicable criteria of §§ 71.101 through 71.137 and satisfying any specific provisions that are applicable to the licensee's activities including procurement of packaging. The licensee, certificate holder, and applicant for a CoC** shall execute the applicable criteria in a graded approach to an extent that is commensurate with the quality assurance requirement's importance to safety.</b></p> <p><i>(c) Approval of program.</i></p> <p>(1) Before the use of any package for the shipment of licensed material subject to this subpart, each licensee shall obtain Commission** approval of its quality assurance program. Using an appropriate method listed in § 71.1(a), each licensee shall file a description of its quality assurance program, including a discussion of which requirements of this subpart are applicable and how they will be satisfied, by submitting the description to: ATTN: Document Control Desk, Director, Division of Spent Fuel Management, Office of Nuclear Material Safety and Safeguards**.</p>
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2015-3	§ 71.101(c)(2) Revised	Quality assurance requirements	Not Applicable – NRC Only	NRC	<p><b>In § 71.101, revise paragraphs (c)(2) to read as follows:</b></p> <p>(c) * * *</p> <p>(2) Before the fabrication, testing, or modification of any package for the shipment of licensed material subject to this subpart, each certificate holder, or applicant for a Certificate of Compliance shall obtain Commission approval of its quality assurance program. Each certificate holder or applicant for a CoC shall, in accordance with § 71.1, file a description of its quality assurance program, including a discussion of which requirements of this subpart are applicable and how they will be satisfied.</p>
2015-3	§ 71.101(g) Compatibility Note Revised	Quality assurance requirements	12VAC5-481-3130 D	C**  ** See last page for note.	<p><b>The Compatibility Category note has been revised.</b></p> <p>(g) Radiography containers. A program for transport container inspection and maintenance limited to radiographic exposure devices, source changers, or packages transporting these devices and meeting the requirements of § 34.31(b) of this chapter or equivalent Agreement State requirement, is deemed to satisfy the requirements of §§ 71.17(b) and 71.101(b).</p>

2015-3	§ 71.103(a) Revised, Compatibility Change	Quality assurance organization	12VAC5-481-3130 E	<p>C**</p> <p>Note: The Compatibility Category for § 71.103(a) has changed from D or [C] to only C.</p> <p>**See last page for additional note.</p> <p>**Reviewer note: the phrase “certificate holder, and applicant for a Certificate of Compliance” should be deleted by the Agreement States as the NRC has sole authority for issuing a Certificate of Compliance.</p>	<p><b>In § 71.103, revise paragraph (a) to read as follows:</b></p> <p>(a) The licensee, <b>certificate holder, and applicant for a Certificate of Compliance**</b> shall be responsible for the establishment and execution of the quality assurance program. The licensee, <b>certificate holder, and applicant for a Certificate of Compliance**</b> may delegate to others, such as contractors, agents, or consultants, the work of establishing and executing the quality assurance program, or any part of the quality assurance program, but shall retain responsibility for the program. These activities include performing the functions associated with attaining quality objectives and the quality assurance functions.</p>
2015-3	§ 71.103(b) Compatibility Note Revised	Quality assurance organization	12VAC5-481-3130 F.	<p>C**</p> <p>** See last page for note.</p>	<p><b>The Compatibility Category note has been revised.</b></p> <p>(b) The quality assurance functions are--</p> <p>(1) Assuring that an appropriate quality assurance program is established and effectively executed; and</p> <p>(2) Verifying, by procedures such as checking, auditing, and inspection, that activities affecting the functions that are important to safety have been correctly performed.</p>



2015-3	§ 71.106 New	Changes to quality assurance program	12VAC5-481-3130.H	C  **Reviewer note: the Agreement states should insert “or Agreement State” where noted	<p><b>Add § 71.106 to subpart H to read as follows:</b></p> <p>§ 71.106 Changes to quality assurance program.</p> <p>(a) Each quality assurance program approval holder shall submit, in accordance with § 71.1(a), a description of a proposed change to its NRC** approved quality assurance program that will reduce commitments in the program description as approved by the NRC**. The quality assurance program approval holder shall not implement the change before receiving NRC** approval.</p> <p>(1) The description of a proposed change to the NRC** approved quality assurance program must identify the change, the reason for the change, and the basis for concluding that the revised program incorporating the change continues to satisfy the applicable requirements of subpart H of this part.</p> <p>(2) [Reserved]</p> <p>(b) Each quality assurance program approval holder may change a previously approved quality assurance program without prior NRC** approval, if the change does not reduce the commitments in the quality assurance program previously approved by the NRC**. Changes to the quality assurance program that do not reduce the commitments shall be submitted to the NRC** every 24 months, in accordance with § 71.1(a). In addition to quality assurance program changes involving administrative improvements and clarifications, spelling corrections, and non- substantive changes to punctuation or editorial items, the following changes are not considered reductions in commitment:</p> <p>(1) The use of a quality assurance standard approved by the NRC** that is more recent than the quality assurance standard in the certificate holder’s or applicant’s current quality assurance program at the time of the</p>
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					<p>change;</p> <p>(2) The use of generic organizational position titles that clearly denote the position function, supplemented as necessary by descriptive text, rather than specific titles, provided that there is no substantive change to either the functions of the position or reporting responsibilities;</p> <p>(3) The use of generic organizational charts to indicate functional relationships, authorities, and responsibilities, or alternatively, the use of descriptive text, provided that there is no substantive change to the functional relationships, authorities, or responsibilities;</p> <p>(4) The elimination of quality assurance program information that duplicates language in quality assurance regulatory guides and quality assurance standards to which the quality assurance program approval holder has committed to on record; and</p> <p>(5) Organizational revisions that ensure that persons and organizations performing quality assurance functions continue to have the requisite authority and organizational freedom, including sufficient independence from cost and schedule when opposed to safety considerations.</p> <p>(c) Each quality assurance program approval holder shall maintain records of quality assurance program changes.</p>
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2015-3	§ 71.135 Revised, Compatibility Change	Quality assurance records	12VAC5-481-3130.I	<p>C**</p> <p>Note: The Compatibility Category for § 71.135 has changed from D or C to only C.</p> <p>** See last page for additional note.</p> <p>**Reviewer note: the phrase “certificate holder, and applicant for a Certificate of Compliance” should be deleted by the Agreement States as the NRC has sole authority for issuing a Certificate of Compliance.</p>	<p><b>Revise § 71.135 to read as follows:</b></p> <p>The licensee, certificate holder, and applicant for a Certificate of Compliance** shall maintain sufficient written records to describe the activities affecting quality. These records must include changes to the quality assurance program as required by § 71.106, the instructions, procedures, and drawings required by § 71.111 to prescribe quality assurance activities, and closely related specifications such as required qualifications of personnel, procedures, and equipment. The records must include the instructions or procedures that establish a records retention program that is consistent with applicable regulations and designates factors such as duration, location, and assigned responsibility. The licensee, certificate holder, and applicant for a Certificate of Compliance** shall retain these records for 3 years beyond the date when the license, certificate holder, and applicant for a Certificate of Compliance** last engage in the activity for which the quality assurance program was developed. If any portion of the quality assurance program, written procedures or instructions is superseded, the licensee, certificate holder, and applicant for a Certificate of Compliance** shall retain the superseded material for 3 years after it is superseded.</p>
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2015-3	Appendix A Revised	Determination of A1 and A2	12VAC5-481-3770.D-E	[B]	<p><b>In appendix A to part 71, revise paragraphs IV.a. and IV.b., redesignate paragraphs IV.c. through IV.f. as paragraphs IV.d. through IV.g., add new paragraph IV.c., revise newly redesignated paragraphs IV.d. through IV.g., redesignate paragraph V. as paragraph V.a., and add new paragraph V.b..</b></p> <p>Revisions detailed below under “Appendix A to Part 71 – Determination of A1 and A2.”</p>
2015-3	Appendix A, Table A-1 Revised	A1 and A2 Values for Radionuclides	12VAC5-481-3770 F	[B]	<p><b>In Table A-1 of Appendix A, add an entry for Kr-79 in alphanumeric order; revise the entries for Cf 252, Ir-192, Kr-81, and Mo 99; revise footnotes a and c; remove footnote h; and redesignate footnote i as footnote h.</b></p> <p>Revisions detailed below under “Table A-1—A1 and A2 VALUES FOR RADIONUCLIDES.”</p>
2015-3	Appendix A, Table A-2 Revised	Exempt Material Activity Concentrations and Exempt Consignment Activity Limits for Radionuclides.	12VAC5-481-3770 G Table 2	[B]	<p><b>In Table A-2 of Appendix A, add the entry for Kr-79 in alphanumeric order, revise the entries for Kr 81 and Te 121m, and revise footnote b.</b></p> <p>Revisions detailed below under “Table A-2—EXEMPT MATERIAL ACTIVITY CONCENTRATIONS AND EXEMPT CONSIGNMENT ACTIVITY LIMITS FOR RADIONUCLIDES.”</p>
2015-3	Appendix A, Table A-3 Revised	General Values for A1 and A2	12VAC5-481-3770 H Table 3	[B]	<p><b>In Table A-3 of Appendix A, revise the second and third entries and add a new footnote a.</b></p> <p>Revisions detailed below under “TABLE A-3—GENERAL VALUES FOR A1 and A2.”</p>

\*\*Note: §71.101(g) indicates that QA programs for industrial radiography Type B package users are covered by §34.31(b). It also indicated that this section satisfies §71.17(b) and therefore will satisfy those sections referenced in this provision (§§71.101 through 71.137).

**Appendix A to Part 71 – Determination of A<sub>1</sub> and A<sub>2</sub>**

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IV. \* \* \*

a. For special form radioactive material, the maximum quantity transported in a Type A package is as follows:

$$\sum_i \frac{B(i)}{A_1(i)} \leq 1$$

where B(i) is the activity of radionuclide i in special form, and A<sub>1</sub>(i) is the A<sub>1</sub> value for radionuclide i.

b. For normal form radioactive material, the maximum quantity transported in a Type A package is as follows:

$$\sum_i \frac{B(i)}{A_2(i)} \leq 1$$

where B(i) is the activity of radionuclide i in normal form, and A<sub>2</sub>(i) is the A<sub>2</sub> value for radionuclide i.

c. If the package contains both special and normal form radioactive material, the activity that may be transported in a Type A package is as follows:

$$\sum_i \frac{B(i)}{A_1(i)} + \sum_j \frac{C(j)}{A_2(j)} \leq 1$$

where B(i) is the activity of radionuclide i as special form radioactive material, A<sub>1</sub>(i) is the A<sub>1</sub> value for radionuclide i, C(j) is the activity of radionuclide j as normal form radioactive material, and A<sub>2</sub>(j) is the A<sub>2</sub> value for radionuclide j.

d. Alternatively, the A<sub>1</sub> value for mixtures of special form material may be determined as follows:

$$A_1 \text{ for mixture} = \frac{1}{\sum_i \frac{f(i)}{A_1(i)}}$$

where f(i) is the fraction of activity for radionuclide i in the mixture and A<sub>1</sub>(i) is the appropriate A<sub>1</sub> value for radionuclide i.

e. Alternatively, the A<sub>2</sub> value for mixtures of normal form material may be determined as follows:

$$A_2 \text{ for mixture} = \frac{1}{\sum_i \frac{f(i)}{A_2(i)}}$$

where f(i) is the fraction of activity for radionuclide i in the mixture and A<sub>2</sub>(i) is the appropriate A<sub>2</sub> value for radionuclide i.

**f. The exempt activity concentration for mixtures of nuclides may be determined as follows:**

$$\text{Exempt activity concentration for mixture} = \frac{1}{\sum_i \frac{f(i)}{[A](i)}}$$

where  $f(i)$  is the fraction of activity concentration of radionuclide  $i$  in the mixture and  $[A](i)$  is the activity concentration for exempt material containing radionuclide  $i$ .

**g. The activity limit for an exempt consignment for mixtures of radionuclides may be determined as follows:**

$$\text{Exempt consignment activity limit for mixture} = \frac{1}{\sum_i \frac{f(i)}{A(i)}}$$

where  $f(i)$  is the fraction of activity of radionuclide  $i$  in the mixture and  $A(i)$  is the activity limit for exempt consignments for radionuclide  $i$ .

V. \* \* \*

**b. When the identity of each radionuclide is known but the individual activities of some of the radionuclides are not known, the radionuclides may be grouped and the lowest [A] (activity concentration for exempt material) or A (activity limit for exempt consignment) value, as appropriate, for the radionuclides in each group may be used in applying the formulas in paragraph IV of this appendix. Groups may be based on the total alpha activity and the total beta/gamma activity when these are known, using the lowest [A] or A values for the alpha emitters and beta/gamma emitters, respectively.**

\* \* \* \* \*

**Table A-1—A1 and A2 VALUES FOR RADIONUCLIDES**

Symbol of radionuclide	Element and atomic number	A <sub>1</sub> (TBq)	A <sub>1</sub> (Ci) <sup>b</sup>	A <sub>2</sub> (TBq)	A <sub>2</sub> (Ci) <sup>b</sup>	Specific activity	
						(TBq/g)	(Ci/g)
*	*	*		*	*	*	*
Cf-252		1.0x10 <sup>-1</sup>	2.7	3.0x10 <sup>-3</sup>	8.1x10 <sup>-2</sup>	2.0x10 <sup>1</sup>	5.4x10 <sup>2</sup>
*	*	*		*	*	*	*
Ir-192		<sup>c</sup> 1.0	<sup>c</sup> 2.7x10 <sup>1</sup>	6.0x10 <sup>-1</sup>	1.6x10 <sup>1</sup>	3.4x10 <sup>2</sup>	9.2x10 <sup>3</sup>
*	*	*		*	*	*	*
Kr-79	Krypton (36)	4.0	1.1x10 <sup>2</sup>	2.0	5.4x10 <sup>1</sup>	4.2x10 <sup>4</sup>	1.1x10 <sup>6</sup>
Kr-81		4.0x10 <sup>1</sup>	1.1x10 <sup>3</sup>	4.0x10 <sup>1</sup>	1.1x10 <sup>3</sup>	7.8x10 <sup>-4</sup>	2.1x10 <sup>-2</sup>
*	*	*		*	*	*	*
Mo-99 <sup>a,h</sup>		1.0	2.7x10 <sup>1</sup>	6.0x10 <sup>-1</sup>	1.6x10 <sup>1</sup>	1.8x10 <sup>4</sup>	4.8x10 <sup>5</sup>
*	*	*		*	*	*	*

<sup>a</sup> **A<sub>1</sub> and/or A<sub>2</sub> values include contributions from daughter nuclides with half-lives less than 10 days, as listed in the following:**

Mg-28	Al-28
Ca-47	Sc-47
Ti-44	Sc-44
Fe-52	Mn-52m
Fe-60	Co-60m
Zn-69m	Zn-69
Ge-68	Ga-68
Rb-83	Kr-83m
Sr-82	Rb-82
Sr-90	Y-90
Sr-91	Y-91m
Sr-92	Y-92
Y-87	Sr-87m
Zr-95	Nb-95m
Zr-97	Nb-97m, Nb-97
Mo-99	Tc-99m
Tc-95m	Tc-95
Tc-96m	Tc-96
Ru-103	Rh-103m
Ru-106	Rh-106
Pd-103	Rh-103m
Ag-108m	Ag-108
Ag-110m	Ag-110
Cd-115	In-115m
In-114m	In-114
Sn-113	In-113m
Sn-121m	Sn-121
Sn-126	Sb-126m
Te-127m	Te-127
Te-129m	Te-129
Te-131m	Te-131
Te-132	I-132
I-135	Xe-135m



Xe-122	I-122
Cs-137	Ba-137m
Ba-131	Cs-131
Ba-140	La-140
Ce-144	Pr-144m, Pr-144
Pm-148m	Pm-148
Gd-146	Eu-146
Dy-166	Ho-166
Hf-172	Lu-172
W-178	Ta-178
W-188	Re-188
Re-189	Os-189m
Os-194	Ir-194
Ir-189	Os-189m
Pt-188	Ir-188
Hg-194	Au-194
Hg-195m	Hg-195
Pb-210	Bi-210
Pb-212	Bi-212, Tl-208, Po-212
Bi-210m	Tl-206
Bi-212	Tl-208, Po-212
At-211	Po-211
Rn-222	Po-218, Pb-214, At-218, Bi-214, Po-214
Ra-223	Rn-219, Po-215, Pb-211, Bi-211, Po-211, Tl-207
Ra-224	Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
Ra-225	Ac-225, Fr-221, At-217, Bi-213, Tl-209, Po-213, Pb-209
Ra-226	Rn-222, Po-218, Pb-214, At-218, Bi-214, Po-214
Ra-228	Ac-228
Ac-225	Fr-221, At-217, Bi-213, Tl-209, Po-213, Pb-209
Ac-227	Fr-223
Th-228	Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208, Po-212
Th-234	Pa-234m, Pa-234
Pa-230	Ac-226, Th-226, Fr-222, Ra-222, Rn-218, Po-214
U-230	Th-226, Ra-222, Rn-218, Po-214
U-235	Th-231
Pu-241	U-237
Pu-244	U-240, Np-240m Am-242m Am-242, Np-238 Am-243
Np-239	
Cm-247	Pu-243
Bk-249	Am-245
Cf-253	Cm-249
*	*

**<sup>c</sup> The activity of Ir-192 in special form may be determined from a measurement of the rate of decay or a measurement of the radiation level at a prescribed distance from the source.**

\* \* \* \* \*

**<sup>h</sup> A<sub>2</sub> = 0.74 TBq (20 Ci) for Mo-99 for domestic use.**

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**Table A-2—EXEMPT MATERIAL ACTIVITY CONCENTRATIONS AND EXEMPT CONSIGNMENT ACTIVITY LIMITS FOR RADIONUCLIDES**

Symbol of radionuclide	Element and atomic number	Activity concentration for exempt material (Bq/g)	Activity concentration for exempt material (Ci/g)	Activity limit for exempt consignment (Bq)	Activity limit for exempt consignment (Ci)
*	*	*	**	*	*
Kr-79	Krypton (36)	1.0x10 <sup>3</sup>	2.7x10 <sup>-8</sup>	1.0x10 <sup>5</sup>	2.7x10 <sup>-6</sup>
Kr-81		1.0x10 <sup>4</sup>	2.7x10 <sup>-7</sup>	1.0x10 <sup>7</sup>	2.7x10 <sup>-4</sup>
*	*	*	**	*	*
Te-121m		1.0x10 <sup>2</sup>	2.7x10 <sup>-9</sup>	1.0x10 <sup>6</sup>	2.7x10 <sup>-5</sup>
*	*	*	**	*	*

\* \* \* \* \*

<sup>b</sup> Parent nuclides and their progeny included in secular equilibrium are listed as follows:

Sr-90                      Y-90  
Zr-93                      Nb-93m  
Zr-97                      Nb-97  
Ru-106                    Rh-106  
Ag-108m                 Ag-108  
Cs-137                    Ba-137m  
Ce-144                    Pr-144  
Ba-140                    La-140  
Bi-212                    Tl-208 (0.36), Po-212 (0.64)  
Pb-210                    Bi-210, Po-210  
Pb-212                    Bi-212, Tl-208 (0.36), Po-212 (0.64) Rn-  
222                        Po-218, Pb-214, Bi-214, Po-214  
Ra-223                    Rn-219, Po-215, Pb-211, Bi-211, Tl-207  
Ra-224                    Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64)  
Ra-226                    Rn-222, Po-218, Pb-214, Bi-214, Po-214, Pb-210, Bi-210, Po-210 Ra-  
228                        Ac-228  
Th-228                    Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212(0.64) Th-229  
Ra-225, Ac-225, Fr-221, At-217, Bi-213, Po-213, Pb-209  
Th-nat                    Ra-228, Ac-228, Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208  
(0.36), Po-212 (0.64)  
Th-234                    Pa-234m  
U-230                    Th-226, Ra-222, Rn-218, Po-214  
U-232                    Th-228, Ra-224, Rn-220, Po-216, Pb-212, Bi-212, Tl-208 (0.36), Po-212 (0.64) U-235  
Th-231  
U-238                    Th-234, Pa-234m  
U-nat                    Th-234, Pa-234m, U-234, Th-230, Ra-226, Rn-222, Po-218, Pb-214, Bi-214, Po-  
214, Pb-210, Bi-210, Po-210  
Np-237                    Pa-233  
Am-242m                Am-242  
Am-243                    Np-239

\* \* \* \* \*

**TABLE A-3—GENERAL VALUES FOR A1 and A2**

Contents	A <sub>1</sub>		A <sub>2</sub>		Activity concentration for exempt material (Bq/g)	Activity concentration for exempt material (Ci/g)	Activity limits for exempt consignments (Bq)	Activity limits for exempt consignments (Ci)
	(TBq)	(Ci)	(TBq)	(Ci)				
*		*	*	*	*	*		*
Alpha emitting nuclides, but no neutron emitters, are known to be present <sup>a</sup>	2x10 <sup>-1</sup>	5.4x10 <sup>0</sup>	9x10 <sup>-5</sup>	2.4x10 <sup>-3</sup>	1x10 <sup>-1</sup>	2.7x10 <sup>-12</sup>	1x10 <sup>3</sup>	2.7x10 <sup>-8</sup>
Neutron emitting nuclides are known to be present or no relevant data are available	1x10 <sup>-3</sup>	2.7x10 <sup>-2</sup>	9x10 <sup>-5</sup>	2.4x10 <sup>-3</sup>	1x10 <sup>-1</sup>	2.7x10 <sup>-12</sup>	1x10 <sup>3</sup>	2.7x10 <sup>-8</sup>

<sup>a</sup> If beta or gamma emitting nuclides are known to be present, the A<sub>1</sub> value of 0.1 TBq (2.7 Ci) should be used.

\* \* \* \* \*

RATS ID	Change to NRC Section	Title	State Section	Compatibility Category	Summary of Change to CFR
2015-4	§ 37.23(b)(2)	Access authorization program requirements	12VAC5-481-451 B 2 b (2)  Previously revised.	B	<p>In § 37.23 (b)(2), remove the incorrect reference “§ 37.25(b)” and replace it with the correct reference “§ 37.25(c)” to read as follows:</p> <p>(b) * * *</p> <p>(2) * * *The licensee shall recertify that the reviewing official is deemed trustworthy and reliable every 10 years in accordance with § 37.25(c).</p>
2015-4	§40.61(a)(2)	Records	12VAC5-481-100  N/A. This is an older regulation, prior to Agreement State, and like many of those, it’s wording is not a direct match for NRC. Included in X-ray regs.	C	<p>In § 40.61(a)(2), remove the first use of the word “or” and replace it with the word “of” to read as follows:</p> <p>(a) * * *</p> <p>(2) The licensee who transferred the material shall retain each record of transfer of source or byproduct material until the Commission terminates each license that authorizes the activity that is subject to the recordkeeping requirement.</p>

RATS ID	Change to NRC Section	Title	State Section	Compatibility Category	Summary of Change to CFR
2015-5	§ 19.17(a) Amended	Inspections not warranted; informal review	12VAC5-481-2320 A  Change not applicable, Agreement State address used.	C	In § 19.17(a), remove the phrase “Office of Information Services” and add in its place the phrase “Office of the Chief Information Officer”.
2015-5	10 CFR Part 20 Amended	Standards for Protection Against Radiation	C: 12VAC5-481-150 D: 12VAC5-481-1110 D Change not applicable, Agreement State address used.	C: § 20.1007 D: § 20.2203(d) B: Appendix G	In part 20, wherever it may occur, remove the phrase “Office of Information Services” and add in its place the phrase “Office of the Chief Information Officer”.
2015-5	§ 30.6(a)(3) Amended	Communications	Not Applicable – D Compatibility	D	In § 30.6(a)(3), remove the phrase “Office of Information Services” and add in its place the phrase “Office of the Chief Information Officer”.
2015-5	§ 32.1(c)(1) Amended	Purpose and scope	Not Applicable – NRC Only	NRC	In § 32.1(c)(1), remove the word “tribe” wherever it may occur, and add in its place the word “Tribe”.
2015-5	10 CFR Part 37 Amended	Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material	B: 12VAC5-481-151 B 4 c (1)	D: § 37.7(c) B: § 37.27(c)(1)	In part 37, wherever it may occur, remove the phrase “Office of Information Services” and add in its place the phrase “Office of the Chief Information Officer”.
2015-5	§ 37.77(a)(1) Amended	Advance notification of shipment of category 1 quantities of radioactive material	12VAC5-451-D 4 a (1)	B	In § 37.77(a)(1), remove the Web site address “https://nrc.stp.ornl.gov/ special/designee.pdf” and add in its place the Web site address “https://scp.nrc.gov/special/ designee.pdf”.

2015-5	10 CFR Part 40 Amended	Domestic Licensing of Source Material	Not Applicable – NRC Only	NRC: Appendix A, Criterion 11(F) § 40.27(b)(1)	In part 40, wherever it may occur, remove the word “tribe” and add in its place the word “Tribe”.
2015-5	§ 40.5(a)(3) Amended	Communications	12VAC5-481-150 Change not applicable, Agreement State address used.	D	In § 40.5(a)(3), remove the phrase “Office of Information Services” and add in its place the phrase “Office of the Chief Information Officer”.
2015-5	10 CFR Part 61 Amended	Licensing Requirements for Land Disposal of Radioactive Waste	12VAC5-481, Part XI  Not applicable – D Compatibility	H&S: § 61.7(c) D: § 61.2 § 61.25 § 61.70 § 61.71 § 61.72 § 61.73	In part 61, wherever they may occur, remove the word “tribe” and add in its place the word “Tribe”, remove the word “tribes” and add in its place the word “Tribes”, and remove the word “tribal” and add in its place the word “Tribal”.
2015-5	§ 61.4	Communications	12VAC5-481-150 Change not applicable, Agreement State address used.	D	In § 61.4, remove the phrase “Office of Information Services” and add in its place the phrase “Office of the Chief Information Officer”.
2015-5	§ 70.5(a)(3)	Communications	12VAC5-481-150 Change not applicable, Agreement State address used.	D	In § 70.5(a)(3), remove the phrase “Office of Information Services” and add in its place the phrase “Office of the Chief Information Officer”.
2015-5	§ 71.1(a)	Communications and records	Not Applicable – D Compatibility	D	In § 71.1(a), remove the phrase “Office of Information Services” and add in its place the phrase “Office of the Chief Information Officer”.
2015-5	§ 71.4, <i>Indian Tribe</i>	Definitions	12VAC5-481-10 “Indian Tribe”	B	In § 71.4, in the definition of Indian Tribe, remove the word “tribe” wherever it may occur, and add in its place the word “Tribe”.

2015-5	§ 71.97(c)(3)(ii)	Advance notification of shipment of irradiated reactor fuel and nuclear waste	12VAC5-481-3120 D and E  Capitalized "Tribe" throughout.	B	In § 71.97, revise paragraph (c)(3)(ii) to read as follows:  * * * * * (c) * * * (3) * * * (ii) Contact information for each State, including telephone and mailing addresses of governors and governors' designees, and participating Tribes, including telephone and mailing addresses of Tribal officials and Tribal official's designees, is available on the NRC Web site at: <a href="https://scp.nrc.gov/special/designee.pdf">https://scp.nrc.gov/special/designee.pdf</a> . * * * * *
2015-5	§ 150.4	Communications	12VAC5-481-150 Change not applicable, Agreement State address used.	D	In § 150.4, remove the phrase "Office of Information Services" and add in its place the phrase "Office of the Chief Information Officer".
2015-5	§ 150.15a(b)(6)	Continued Commission authority pertaining to byproduct material.	Not Applicable – NRC Only	NRC	In § 150.15a(b)(6), remove the word "tribe" wherever it may occur, and add in its place the word "Tribe".