



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 6, 2015

Mr. Aubrey Godwin, Director
Arizona Radiation Regulatory Agency
4814 South 40th Street
Phoenix, Arizona 85040

Dear Mr. Godwin:

We have reviewed the proposed revisions to the Arizona Radiological Health Rules published in the Arizona Administration Code, Title 12, Chapter 1, received by our office on September 18, 2015. These regulations were reviewed by comparison to the equivalent U.S. Nuclear Regulatory Commission (NRC) rules and the requirements of the eight amendments identified in the enclosed State Regulation Status (SRS) Data Sheet. We discussed our review of the regulations with Jerry Perkins on November 5, 2015.

As a result of our review, we have nine comments related to compatibility and one comment that is not related to compatibility but should be addressed. These have been identified in the enclosure. Please note that we have limited our review to regulations required for compatibility and/or health and safety. Under our current procedure, a finding that the Arizona regulations meet the compatibility and health and safety categories of the equivalent NRC regulation may only be made based on a review of the final Arizona regulations. However, we have determined that if your proposed regulations were adopted, incorporating our comments and without other significant change, they would meet the compatibility and health and safety categories established in the Office of Nuclear Material Safety and Safeguards (NMSS) Procedure SA-200, "Compatibility Categories and Health and Safety Identification for NRC Regulations and Other Program Elements."

We request that when the proposed regulations are adopted and published as final regulations, a copy of the "as published" regulations be provided to us for review. As requested in NMSS Procedure SA-201, "Review of State Regulatory Requirements," please highlight the final changes, and provide a copy to Division of Material Safety, State, Tribal, and Rulemaking Programs, NMSS.

The SRS Data Sheet summarizes our knowledge of the status of other Arizona regulations, as indicated. Please let us know if you note any inaccuracies, or have any comments on the information contained in the SRS Data Sheet. This letter, including the SRS Data Sheet, is posted on the NMSS Web site: <http://nrc-stp.ornl.gov/rulemaking.html>.

A. Godwin

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If you have any questions regarding the review, the compatibility and health and safety categories, or any of the NRC regulations used in the review, please contact Michelle Beardsley, State Regulation Review Coordinator, at (610) 337-6942 (Michelle.Beardsley@nrc.gov) or Randy Erickson at (817) 200-1143 (Randy.Erickson@nrc.gov).

Sincerely,

/RA/

LDimmick for PHenderson

Pamela J. Henderson, Deputy Director
Division of Material Safety, State, Tribal,
and Rulemaking Programs
Office of Nuclear Material Safety
and Safeguards

Enclosures:

1. Compatibility & Non-Compatibility Comments
2. Arizona SRS Data Sheet

COMPATIBILITY COMMENTS ON ARIZONA PROPOSED REGULATIONS

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
1	R12-1-418(E)	20.1501(b)	2011-1	H&S	<p>General</p> <p>Arizona has omitted the additional new paragraph regarding the retention of documentation related to subsurface residual radioactivity surveys required for decommissioning.</p> <p>Arizona needs to adopt the essential health and safety objectives of the requirement for retention of documentation related to subsurface residual radioactivity surveys required for decommissioning in order to meet the Compatibility Category H&S designation assigned to 10 CFR 20.1501(b).</p>
2	R12-1-323(F)	30.35(e) 40.36(d) 70.25(e)	2011-1	H&S	<p>Financial assurance and recordkeeping for decommissioning</p> <p>Arizona has not met the essential health and safety objectives of the requirements related to financial assurance and recordkeeping for decommissioning.</p> <p>Arizona needs to adopt the essential health and safety objectives of financial assurance and recordkeeping for decommissioning in order to meet the Compatibility Category H&S designation assigned to 10 CFR 30.35(e), 40.36(d) and 70.25(e).</p>

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
3	N/A	40.46(d) 70.36	2011-1	C	<p>Inalienability of licenses</p> <p>Arizona has omitted the additional new paragraph regarding the transfer of licenses involving financial assurance for decommissioning information required by 10 CFR 40.36 and 70.36.</p> <p>Arizona needs to adopt the essential objectives of the requirement for the transfer of licenses involving financial assurance for decommissioning information in order to meet the Compatibility Category C designation assigned to 10 CFR 40.46(d) and 70.36.</p>
4	N/A	36.13(a)	2011-2	H&S	<p>Specific licenses for irradiators</p> <p>Arizona has omitted the general requirements related to the issuance of specific licenses for irradiators as required by 36.13(a).</p> <p>Arizona needs to adopt the essential health and safety objectives of the requirement related to the issuance of specific licenses for irradiators in order to meet the Compatibility Category H&S designation assigned to 10 CFR 36.13(a).</p>

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
5	N/A	39.13	2011-2	H&S	<p>Specific licenses for well logging</p> <p>Arizona has omitted the general requirements related to the issuance of specific licenses for well logging as required by 10 CFR 39.13.</p> <p>Arizona needs to adopt the essential health and safety objectives of the requirement related to the issuance of specific licenses for well logging in order to meet the Compatibility Category H&S designation assigned to 10 CFR 39.13.</p>
6	R12-1-303(B)(2)(b) (B)(3) (B)(4)	30.19(b)	2012-4	B	<p>Self-luminous products containing tritium, krypton-85, or promethium-147</p> <p>Gas and aerosol detectors containing byproduct material</p> <p>Certain industrial devices</p> <p>Arizona has omitted the wording, “and for a certificate of registration in accordance with 32.210 of this chapter” from the requirement as stated in 10 CFR 30.19(b), 30.20 and 30.22.</p> <p>Arizona needs to adopt the wording, “and for a certificate of registration in accordance with 32.210 of this chapter” in order to meet the Compatibility Category B designation assigned to 10 CFR 30.19(b), 30.20 and 30.22.</p>

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
7	N/A	30.13	2013-1	B	<p>Definition: Carriers</p> <p>Arizona has omitted the definition for “Carriers” as stated in 10 CFR 30.13.</p> <p>Arizona needs to adopt the definition for “Carriers” in order to meet the Compatibility Category B designation assigned to 10 CFR 30.13.</p>
8	N/A	71.97	2013-1	B	<p>Advance notification of shipment of irradiated reactor fuel and nuclear waste</p> <p>Arizona has omitted the additional new paragraph regarding the advance notification of shipment of irradiated reactor fuel and nuclear waste as required in 10 CFR 71.97.</p> <p>Arizona needs to add the new paragraph regarding the advance notification of shipment of irradiated reactor fuel and nuclear waste in order to meet the Compatibility Category B designation assigned to 10 CFR 71.97.</p>
9	R12-1-Article 19, Appendix A	Part 37. Appendix A	2013-1	B	<p>Category 1 and Category 2 Radioactive Materials</p> <p>Arizona omitted the following formula from their equivalent to Part 37, Appendix A:</p> $\sum_1^n \left[\frac{R_1}{AR_1} + \frac{R_2}{AR_2} + \frac{R_n}{AR_n} \right] \geq 1.0$ <p>Arizona needs to add the formula above to its equivalent to Part 37, Appendix A in order to meet the Compatibility Category B designation assigned to 10 CFR Part 37, Appendix A.</p>

COMMENT NOT RELATED TO COMPATIBILITY

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
1	R12-1-1927(C)	37.27(c)	2013-1	B	<p>Requirements for criminal history records checks of individuals granted unescorted access to category 1 or category 2 quantities of radioactive material</p> <p>Arizona needs to update its regulations in section R12-1-1927(C) to revise the Mail Stop to TWB-05 B32M, and the Division of Facilities and Security phone number to 630-829-9565, and update R-12-1907 to incorporate the revised organizational changes.</p> <p><i>See FSME-13-081 dated August 16, 2013, for notification to Agreement States of the change of address from that published in the regulations.</i></p>
	R12-1-1907	37.7		D	

STATE REGULATION STATUS

State: Arizona

Tracking Ticket Number: 15-74

Date: 11/06/2015

[8 amendment(s) reviewed identified by a * at the beginning of the equivalent NRC requirement.]

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
1991-1	Safety Requirements for Radiographic Equipment Part 34 55 FR 843 (Superceded by 1997-5)	01/10/1994	Final ML042370896	No Comments 11/10/2004 ML043200721	Arizona has adopted final regulations equivalent to RATS ID 1997-5.
1991-2	ASNT Certification of Radiographers Part 34 56 FR 11504 (Superceded by 1997-5)	none	Final ML042370896	No Comments 11/10/2004 ML043200721	Arizona has adopted final regulations equivalent to RATS ID 1997-5.
1991-3	Standards for Protection Against Radiation Part 20 56 FR 23360; 56 FR 61352; 57 FR 38588; 57 FR 57877; 58 FR 67657; 59 FR 41641; 60 FR 20183	01/01/1994	Final	No Comments 09/22/1997	
1991-4	Notification of Incidents Parts 20, 30, 31, 34, 39, 40, 70 56 FR 64980	10/15/1994	Final ML042370896	No Comments 11/10/2004 ML043200721	
1992-1	Quality Management Program and Misadministrations Part 35 56 FR 34104 (Superceded by 2002-2)	01/27/1995	License Condition	No Comments 01/15/1999	Arizona has not yet adopted equivalent regulations to RATS ID 2002-2.
1992-2	Eliminating the Recordkeeping Requirements for Departures from Manufacturer's Instructions Parts 30, 35 57 FR 45566	none	Not required	Not required	These regulation changes are not required to be adopted for purposes of Compatibility.

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
*1993-1	Decommissioning Recordkeeping and License Termination: Documentation Additions [Restricted areas and spill sites] Parts 30, 40 58 FR 39628	10/25/1996	Proposed ML15267A799	No Comments 11/06/2015 ML15267A795	
1993-2	Licensing and Radiation Safety Requirements for Irradiators Part 36 58 FR 7715	07/01/1996	Not Applicable ¹	Not Applicable	Arizona does not have any licensees subject to these regulations (See SECY-95-112)
1993-3	Definition of Land Disposal and Waste Site QA Program Part 61 58 FR 33886	07/22/1996	Not Applicable ¹	Not Applicable	Arizona does not have any licensees subject to these regulations (See SECY-95-112)
1994-1	Self-Guarantee as an Additional Financial Mechanism Parts 30, 40, 70 58 FR 68726; 59 FR 1618	none	Not Required	Not Required	These regulation changes are not required to be adopted for purposes of Compatibility.
1994-2	Uranium Mill Tailings Regulations: Conforming NRC Requirements to EPA Standards Part 40 59 FR 28220	07/01/1997	Not Applicable	Not Applicable	Arizona does not have authority to regulate this material under its Agreement.
1994-3	Timeliness in Decommissioning Material Facilities Parts 30, 40, 70 59 FR 36026	08/15/1997	Final ML032750051	No Comments 11/20/2003 ML033240189	
1995-1	Preparation, Transfer for Commercial Distribution, and Use of Byproduct Material for Medical Use Parts 30, 32, 35 59 FR 61767; 59 FR 65243; 60 FR 322	01/01/1998	Final ML092590750	No Comments 11/12/2009 ML092870448	

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
*1995-2	Frequency of Medical Examinations for Use of Respiratory Protection Equipment Part 20 60 FR 7900	03/13/1998	Proposed ML15267A799	No Comments 11/06/2015 ML15267A795	
1995-3	Low-Level Waste Shipment Manifest Information and Reporting Parts 20, 61 60 FR 15649; 60 FR 25983	03/01/1998	Final ML092590750	No Comments 11/12/2009 ML092870448	
1995-4	Performance Requirements for Radiography Equipment Part 34 60 FR 28323 (Superceded by 1997-5)	06/30/1998	Final ML042370896	No Comments 11/10/2004 ML043200721	Arizona has adopted final regulations equivalent to RATS ID 1997-5.
1995-5	Radiation Protection Requirements: Amended Definitions and Criteria Parts 19, 20 60 FR 36038	08/14/1998	Final ML032750051	No Comments 11/20/2003 ML033240189	
1995-6	Clarification of Decommissioning Funding Requirements Parts 30, 40, 70 60 FR 38235	11/24/1998	Final ML032750051	No Comments 11/20/2003 ML033240189	
1995-7	Medical Administration of Radiation and Radioactive Materials Parts 20, 35 60 FR 48623 (Superceded by 2002-2 and 2005-2)	10/20/1998	Proposed	No Comments 10/5/2000	Arizona has not yet adopted equivalent regulations to RATS IDs 2002-2 and 2005-2.
1996-1	Compatibility with the International Atomic Energy Agency Part 71 60 FR 50248; 61 FR 28724 (Superceded by 2004-1)	04/01/1999	Final ML042370896	Comments 11/10/04 ML043200721	Arizona has adopted final regulations equivalent to RATS ID 2004-1.

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
1996-2	One Time Extension of Certain Byproduct, Source and Special Nuclear Materials Licenses Parts 30, 40, 70 61 FR 1109	02/15/1999	Not required	Not required	These regulation changes are not required to be adopted for purposes of Compatibility.
1996-3	Termination or Transfer of Licensed Activities: Record keeping Requirements Parts 20, 30, 40, 61, 70 61 FR 24669	06/17/1999	Final ML032750051	No Comments 11/20/2003 ML033240189	
1997-1	Resolution of Dual Regulation of Airborne Effluents of Radioactive Materials; Clean Air Act Part 20 61 FR 65120	01/9/2000	Final ML032750051	No Comments 11/20/2003 ML033240189	
1997-2	Recognition of Agreement State Licenses in Areas Under Exclusive Federal Jurisdiction Within an Agreement State Part 150 62 FR 1662	02/27/2000	Final ML042370896	No Comments 11/10/2004 ML043200721	
1997-3	Criteria for the Release of Individuals Administered Radioactive Material Parts 20, 35 62 FR 4120	05/29/2000	Final ML092590750	No Comments 11/12/2009 ML092870448	
1997-4	Fissile Material Shipments and Exemptions Part 71 62 FR 5907 (Superseded by 2004-1)	02/10/2000	Not required	Not required	These regulation changes are not required to be adopted for purposes of Compatibility. (See STP-97-078)
1997-5	Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiography Operations Parts 30, 34, 71, 150 62 FR 28947	06/27/2000	Final ML042180385	No Comments 11/10/2004 ML043200721	

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
1997-6	Radiological Criteria for License Termination Parts 20, 30, 40, 70 62 FR 39057	08/20/2000	Final ML032930364	No Comments 11/06/2003 ML033160544	
1997-7	Exempt Distribution of a Radioactive Drug Containing One Micro curie of Carbon-14 Urea Part 30 62 FR 63634	01/02/2001	Final ML032930364	No Comments 11/06/2003 ML033160544	
1998-1	Deliberate Misconduct by Unlicensed Persons Parts 30, 40, 61, 70, 71, 150 63 FR 1890; 63 FR 13773	02/12/2001	Final ML042370896	No Comments 11/10/2004 ML043200721	
1998-2	Self-Guarantee of Decommissioning Funding by Nonprofit and Non-Bond-Issuing Licensees Parts 30, 40, 70 63 FR 29535	07/01/2001	Not required	Not required	These regulations are not required to be adopted for purposes of Compatibility.
1998-3	License Term for Medical Use Licenses Part 35 63 FR 31604 (Superceded by 2002-2)	07/10/2001	Not required	Not required	These regulations are not required to be adopted for purposes of Compatibility. (See STP-98-074)
1998-4	Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations Part 34 63 FR 37059	07/09/2001	Final ML042370896	No Comments 11/10/2004 ML043200721	
1998-5	Minor Corrections, Clarifying Changes, and a Minor Policy Change Parts 20, 32, 35, 36, 39 63 FR 39477; 63 FR 45393	10/26/2001	Final ML032750051	No Comments 11/20/2003 ML033240189	

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1998-6	Transfer for Disposal and Manifests: Minor Technical Conforming Amendment Part 20 63 FR 50127	11/20/2001	Final ML032750051	No Comments 11/20/2003 ML033240189	
1999-1	Radiological Criteria for License Termination of Uranium Recovery Facilities Part 40 64 FR 17506	06/11/2002	Not Required	Not Required	These regulations are not required to be adopted for purposes of Compatibility.
1999-2	Requirements for Those Who Possess Certain Industrial Devices Containing Byproduct Material to Provide Requested Information Part 31 64 FR 42269	10/04/2002	Not Required	Not Required	These regulations are not required to be adopted for purposes of Compatibility.
1999-3	Respiratory Protection and Controls to Restrict Internal Exposure Part 20 64 FR 54543; 64 FR 55524	02/02/2003	Final ML032930364	No Comments 11/06/2003 ML033160544	
2000-1	Energy Compensation Sources for Well Logging and Other Regulatory Clarifications Part 39 65 FR 20337	05/17/2003	Final ML032930364	No Comments 11/06/2003 ML033160544	
2000-2	New Dosimetry Technology Parts 34, 36, 39 65 FR 63750	01/08/2004	Final ML042370896	No Comments 11/1/2004 ML043200721	
2001-1	Requirements for Certain Generally Licensed Industrial Devices Containing Byproduct Material Parts 30, 31, 32 65 FR 79162	02/16/2004	Final ML13101A341	No Comments 04/29/2013 ML13102A005	

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
2002-1	Revision of the Skin Dose Limit Part 20 67 FR 16298	04/05/2005	Final ML092590750	No Comments 11/12/2009 ML092870448	
2002-2	Medical Use of Byproduct Material Parts 20, 32, 35 67 FR 20249	10/24/2005	Final ML13101A341	Comments 04/29/2013 ML13102A005	
2003-1	Financial Assurance for Materials Licensees Parts 30, 40, 70 68 FR 57327	12/03/2006	Final ML092590750	No Comments 11/12/2009 ML092870448	
2004-1	Compatibility With IAEA Transportation Safety Standards and Other Transportation Safety Amendments Part 71 69 FR 3697	10/01/2007	Final ML13101A341	Comments 04/29/2013 ML13102A005	
2005-1	Security Requirements for Portable Gauges Containing Byproduct Material Part 30 70 FR 2001	07/11/2008	Final ML092590750	No Comments 11/12/2009 ML092870448	
2005-2	Medical Use of Byproduct Material - Recognition of Specialty Boards Part 35 70 FR 16336; 71 FR 1926	04/29/2008	Final ML14232A635	Comments 10/17/2014 ML 14232A317	
2005-3	Increased Controls for Risk-Significant Radioactive Sources (NRC Order EA-05-090) 70 FR 72128	12/01/2005	License Condition ML052630048	No Comments 09/21/2005 ML052640467	
2006-1	Minor Amendments Parts 20, 30, 32, 35, 40 and 70 71 FR 15005	03/27/2009	Final ML14232A635	Comments 10/17/2014 ML 14232A317	

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
2006-2	National Source Tracking System - Serialization Requirements Part 32 with reference to Part 20 Appendix E 71 FR 65685	02/06/2007	Final ML092590750	No Comments 11/12/2009 ML092870448	
2006-3	National Source Tracking System Part 20 71 FR 65685, 72 FR 59162	01/31/2009	Final ML092590750	No Comments 11/12/2009 ML092870448	
2007-1	Medical Use of Byproduct Material - Minor Corrections and Clarifications Parts 32 and 35 72 FR 45147, 54207	10/29/2010	Final ML14232A635	Comments 10/17/2014 ML 14232A317	
2007-2	Exemptions From Licensing, General Licenses, and Distribution of Byproduct Material: Licensing and Reporting Requirements Parts 30, 31, 32, 150 72 FR 58473	12/17/2010	Final ML13101A341	No Comments 04/29/2013 ML13102A005	
2007-3	Requirements for Expanded Definition of Byproduct Material Parts 20, 30, 31, 32, 33, 35, 61, 150 72 FR 55864	11/30/2010	Final ML14232A635	No Comments 10/17/2014 ML 14232A317	
2007-4	Order Imposing Fingerprinting Requirements and Criminal History Records Check Requirements for Unescorted Access to Certain Radioactive Material NRC Order EA-07-305 72 FR 70901	06/05/2008	License Condition ML081330218	No Comments 05/28/2008 ML081490633	
2008-1	Occupational Dose Records, Labeling Containers, and Total Effective Dose Equivalent Parts 19, 20 72 FR 68043	02/15/2011	Final ML14232A635	No Comments 10/17/2014 ML 14232A317	

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
2009-1	Medical Use of Byproduct Material – Authorized User Clarification Part 35 74 FR 33901	09/28/2012	Final ML14232A635	Comments 10/17/2014 ML 14232A317	
*2011-1	Decommissioning Planning Parts 20, 30, 40, 70 76 FR 35512	12/17/2015	Proposed ML15267A799	Comments 11/06/2015 ML15267A795	
*2011-2	Licenses, Certifications, and Approvals for Materials Licensees Parts 30, 36, 39, 40, 70, and 150 76 FR 56951	11/14/2014	Proposed ML15267A799	Comments 11/06/2015 ML15267A795	
2012-1	Change of Compatibility of 10 CFR 31.5 and 31.6 (See RATS ID: 2001-1 for Rule text) 77 FR 3640	01/25/2015	Final ML13101A341	No Comments 04/29/2013 ML13102A005	
*2012-2	Advance Notification to Native American Tribes of Transportation of Certain Types of Nuclear Waste Part 71 77 FR 34194	08/10/2015	Proposed ML15267A799	No Comments 11/06/2015 ML15267A795	
*2012-3	Technical Corrections Part 30, 34, 40 and 71 77 FR 39899	08/06/2015	Proposed ML15267A799	No Comments 11/06/2015 ML15267A795	
*2012-4	Requirements for Distribution of Byproduct Material Parts 30, 31, 32, 40 and 70 77 FR 43666	10/23/2015	Proposed ML15267A799	Comments 11/06/2015 ML15267A795	
*2013-1	Physical Protection of Byproduct Material, 10 CFR Parts 20, 30, 32, 33, 34, 35, 36, 37, 39, and 71 78 FR 16922	03/19/2016	Proposed ML15267A799	Comments 11/06/2015 ML15267A795	

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Letter	Outgoing Package	Notes
2013-2	Distribution of Source Material to Exempt Persons and to General Licensees and Revision of General License and Exemptions, 10 CFR Parts 30, 40, and 70 78 FR 32310	08/27/2016			
2015-1	Domestic Licensing of Special Nuclear Material – Written Reports and Clarifying Amendments Part 70 79 FR 57721, 80 FR 143	01/26/2018			
2015-2	Safeguards Information - Modified Handling Categorization, Change for Materials Facilities Parts 30, 37, 73, and 150 79 FR 58664, 80 FR 3865	01/28/2018			
2015-3	Revisions to Transportation Safety Requirements and Harmonization with International Atomic Energy Agency Transportation Requirements Part 71 80 FR 33987	07/13/2018			
2015-4	Miscellaneous Corrections, Parts 37 and 40 80 FR 45841	09/02/2018			

¹ IMPEP Team: verify that Arizona does not have any licensees subject to these regulations during each review.