

February 28, 2012

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

Dear Mr. Godwin:

We have reviewed the proposed revision to the Arizona regulations, Title 12, Chapter 1, received by our office on January 12, 2012. These regulations were reviewed by comparison to the equivalent Nuclear Regulatory Commission (NRC) rules in 10 CFR Parts 20, 30, 31, 32, 35, 71, 150 and the requirements of the four amendments identified in the enclosed State Regulation Status (SRS) Data Sheet. We discussed our review of the regulations with Jerry Perkins on February 27, 2012.

As a result of our review, we have seven comments that 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 revision to the final 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 Federal and State Materials and Environmental Management Programs (FSME) Procedure SA-200.

We request that when the proposed revisions to your regulations are adopted and published as final regulations, a copy of the "as published" regulations be provided to us for review. As requested in FSME Procedure SA-201, "Review of State Regulatory Requirements," please highlight the final changes, and provide a copy to Division of Materials Safety and State Agreements, FSME. 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 FSME website: <http://nrc-stp.ornl.gov/rulemaking.html>.

If you have any questions regarding the comments, the compatibility and health and safety categories, or any of the NRC regulations used in the review, please contact Kathleen Schneider, State Regulation Review Coordinator at (301) 415-2320 (kathleen.schneider@nrc.gov) or Torre Taylor at (301) 415-7900 (torre.taylor@nrc.gov).

Sincerely,

/RA/

Pamela J. Henderson, Acting Deputy Director
Division of Materials Safety and State Agreements
Office of Federal and State Materials
and Environmental Management Programs

Enclosures:
As stated

COMPATIBILITY COMMENTS ARIZONA REVISED FINAL REGULATIONS

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
1	R12-1-721	35.290	2002-2	B	<p>Training for imaging and localization studies</p> <p>Arizona regulations in section B allow cardiologists to be limited to nuclear cardiology if they cannot provide proof that he/she has participated in 700 hours of training and experience required by 10 CFR 35.290. 10 CFR 35.290 makes no such exception for cardiologists.</p> <p>Arizona needs to eliminate section B from R12-1-721 in order to meet the compatibility Category B requirements assigned to 10 CFR 35.290.</p> <p>COMMENT STANDS FROM NRC LETTER DATED NOVEMBER 12, 2009.</p>

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
2	N/A	71.13	2004-1	[B]	<p>Exemption of Physicians</p> <p>Arizona omits this section from their regulations.</p> <p>Arizona needs to add an essentially identical section to their regulations in order to meet the Compatibility Category [B] designation assigned to 10 CFR 71.13.</p> <p>COMMENT STANDS FROM NRC LETTER DATED NOVEMBER 12, 2009.</p>
3	R12-1-1510.C.	71.22	2004-1	[B]	<p>General license: Fissile material</p> <p>In addressing NRC's comments from letter dated November 12, 2009, Arizona includes essentially identical requirements of 10 CFR 71.22(c), (d), and (e) in Arizona regulation R12-1-1510.A., "Packaging." Arizona R12-1-1510.A. is a general license provision essentially equivalent to NRC's regulation in 10 CFR 71.71., which is a general license for NRC-approved packages. However, the requirements in 10 CFR 71.22(c), (d), and (e) apply to the general license for fissile material. Therefore, these provisions need to be moved to Arizona regulation R12-1-1510.C. to meet the Compatibility Category [B] designation assigned to 10 CFR 71.22.</p> <p>COMMENT STANDS FROM NRC LETTER DATED NOVEMBER 12, 2009.</p>
4	R12-1-303.A.	30.14	2007-2	B	<p>Exempt Concentrations</p> <p>Arizona needs to revise R12-1-303.A.1.</p>

STATE SECTION	NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
				<p>to correct the subsection reference to (A)(2) to A.3. and A.4.</p> <p>COMMENT STANDS FROM NRC LETTER DATED NOVEMBER 12, 2009.</p> <p>In addressing NRC's original comment in letter dated November 12, 2009, Arizona partially addressed the comment. However, Arizona needs to correct the reference to NRC regulations in Arizona regulations R12-1-303.A.4. It should read "...a license issued under 10 CFR 32.11."</p> <p>COMMENT STANDS FROM NRC LETTER DATED NOVEMBER 12, 2009.</p> <p>In Arizona regulations R12-1-303.A.3., the reference to Exhibit B should be Exhibit A. Exhibit B applies to exempt quantities and this section of Arizona's regulations applies to exempt concentrations.</p> <p>Arizona needs to make the above changes in order to meet the Compatibility Category B designation assigned to 10 CFR 30.14.</p>

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
5	R12-1-303.C	30.18	2007-2	B	<p>Exempt quantities</p> <p>In Arizona regulation R12-1-303.C.1., Arizona needs to include paragraph C.7. in the list of subsections at the beginning of this section.</p> <p>In Arizona regulation R12-1-303.C.7., Arizona needs to correct the reference to "Sec. 30.71, Schedule B" to "Exhibit B." Arizona did not adopt by reference NRC's regulation in Section 30.71, Schedule B, and; therefore, needs to reference Arizona's equivalent regulation which is Exhibit B.</p> <p>Arizona needs to make the above changes in order to meet the Compatibility Category B designation assigned to 10 CFR 30.18.</p> <p>COMMENT STANDS FROM NRC LETTER DATED NOVEMBER 12, 2009.</p>

STATE SECTION		NRC SECTION	RATS ID	CATEGORY	SUBJECT and COMMENTS
6	R12-1-306.B.1	31.5	2007-2	B	<p>Certain Detecting, Measuring, Gauging, or Controlling Devices and Certain Devices for Producing Light or an Ionized Atmosphere</p> <p>In addressing NRC's original comment from NRC letter dated November 12, 2009, the regulation became unclear.</p> <p>It appears that the paragraph should read as follows: "...radioactive material according to the provisions of 10 CFR 31.5(b), (c), and (d), [revised January 1,... future editions or amendments], contained in devices...."</p> <p>Arizona needs to make the above change in order to meet the Compatibility Category B designation assigned to 10 CFR 31.5.</p> <p>COMMENT STANDS FROM NRC LETTER DATED NOVEMBER 12, 2009.</p>
7	R12-1-303.A.4	32.13	2007-2	C	<p>Same: Prohibition of Introduction</p> <p>In Arizona regulations R12-1-303.A.4., Arizona needs to correct the reference to NRC regulations. It should read "...a license issued under 10 CFR 32.11."</p> <p>Arizona needs to make the above change in order to meet the Compatibility category C designation assigned to 10 CFR 32.13.</p> <p>COMMENT STANDS FROM NRC LETTER DATED NOVEMBER 12, 2009.</p>

STATE REGULATION STATUS

State: Arizona

Tracking Ticket Number: 12-2

[4 amendment(s) reviewed is identified by a ★
at the beginning of the equivalent NRC requirement.]

Date: February 28, 2012

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Package	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.
1993-1	Decommissioning Recordkeeping and License Termination: Documentation Additions [Restricted areas and spill sites] Parts 30, 40 58 FR 39628	10/25/1996			
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)

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Package	Outgoing Package	Notes
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	
1995-2	Frequency of Medical Examinations for Use of Respiratory Protection Equipment	03/13/1998			
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	

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Package	Outgoing Package	Notes
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.
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 (Superceded 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)

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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	
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,	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	
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	

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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	02/16/2004	R ² ML120190399	No Comments 02/28/2012 ML120320180	
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	R ² ML120190399	Comments 02/28/2012 ML120320180	
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	R ² ML120190399	Comments 02/28/2012 ML120320180	

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Package	Outgoing Package	Notes
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	04/29/2008			
2005-3	Increased Controls for Risk-Significant Radioactive Sources	12/01/2005	License Condition ML052630048	No Comments 09/21/2005 ML052640467	
2006-1	Minor Amendments Parts 20, 30, 32, 35, 40 and 70	03/27/2009			
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			
*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	R ² ML120190399	Comments 02/28/2012 ML120320180	
2007-3	Requirements for Expanded Definition of Byproduct Material Parts 20, 30, 31, 32, 33, 35, 61, 150 72 FR 55864	11/30/2010			

RATS ID	NRC Chronology Identification	Date Due for State Adoption	Incoming Package	Outgoing Package	Notes
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			
2009-1	Medical Use of Byproduct Material – Authorized User Clarification Part 35 74 FR 33901	09/28/2012			
2011-1	Decommissioning Planning Parts 20, 30, 40, 70 76 FR 35512	12/17/2015			
2011-2	Licenses, Certifications, and Approvals for Materials Licensees Parts 30, 36, 39, 40, 70, and 150 76 FR 56951	11/14/2014			

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

² stands for revisions to final rule