

SNM-960 License Application Change Table 2/26/16		
Section	Description of Change	Reason for Change
Chapter 1 Section 1.2.3, Type, Quantity, and Form of Licensed Material	Second bullet point changed “Special Nuclear Material (SNM)” to “material” and provided addition type and quantity descriptions Third bullet point changed “Special Nuclear Material (SNM)” to “irradiated or unirradiated SNM” (as defined in 10 CFR 150.11)”	Clarification Clarification
Section 1.3.1, Activities not Requiring Prior NRC Authorization	Removed section and renumbered remaining items in Section 1.3	Administrative Update
Section 1.3.3, Exemption to Criticality Monitoring System Requirements	Revised second bullet to describe individual areas where there is negligible risk of criticality	Clarification
License Condition for Leak Testing Sealed Plutonium Sources	Licensed Condition not needed. Removed page 1.46	Administrative Update
Chapter 4 Section 4.8.2 Whole Body Counting	Removed section	Administrative Update
Chapter 5 Section 5.1.1, Criticality Safety Program	Removed “typically 350 grams U-235 from first sentence Changed “sequences” to “sequence” and “a defense of one or more system parameters” to “subcriticality” in last sentence of second paragraph	Administrative Update
Section 5.1.5, Auditing, and Assessing the Criticality Safety Program	Removed entire section	Administrative Update
Section 5.1.6, Criticality Accident Alarm System (CAAS) Design and Performance Requirements	Removed entire section	Administrative Update
Section 5.2.3, Specific Parameter Limits	Changed reference number from “(ref. 5-12)” to “(ref 5-6)” in last sentence of second paragraph	Administrative Update
	Added reference “(ref. 5-7) to third paragraph	Administrative Update
	Removed last two paragraphs (Definition of safe batch and definition of subcritical area)	Administrative Update
Section 5.2.4, Control Parameters	Updated last sentence	Administrative Update
Section 5.2.4.1, Geometry	Removed 3 rd sentence in first paragraph	Administrative Update
Section 5.2.4.2, Mass	Removed last sentence	Administrative Update
Section 5.2.4.3, Moderation	Removed entire section	Administrative Update
Section 5.2.4.4, Neutron Absorber	Removed entire section	Administrative Update
Section 5.2.4.6, Material Composition (or Heterogeneity)	Removed entire section	Administrative Update
Section 5.2.4.9, Process Characteristics	Removed entire section	Administrative Update

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Section 5.2.5.2, Analytical Methods	Removed “ Solid Angle methods (e.g., SAC code)” and added “ SCALE, MCNP” in first sentence.	Administrative Update
	Removed “ Additional Monte Carlo codes (e.g., such as SCALE, MCNP) or Sn” and “code package” in second sentence	Administrative Update
Section 5.2.5.3, Validation Techniques	Changed “ ANSI/ANS-8.1-1998” to “ ANSI/ANS-8.1-2014” in first paragraph	Administrative Update
	Added “Reference 5-8 defines bias as: Bias = k calc – 1.0 to the Bias definition	Clarification
	Changed “ ANSI/ANS-8.1-1998” to “ ANSI/ANS-8.1-2014” in fifth paragraph	Administrative Update
	Deleted last paragraph	Administrative Update
Section 5.5.5.4, Computer Software & Hardware Configuration Control	Removed last sentence in first paragraph	Administrative Update
	Changed “Software” to “Computer codes” and deleted “is compiled into working code versions with executable files that are traceable by length, time, date, and version. Working code versions of compiled software” from second paragraph first and second sentence.	Clarification
	Updated last sentence in second paragraph from “ Each individual workstation is verified to produce results identical to the development workstation prior to use of the software for criticality safety calculations demonstrations on the production workstation.” To “Each individual workstation is verified using the test suite provided by the code vendor prior to use of the software for criticality safety calculations.”	Clarification
	Deleted first sentence of last paragraph	Administrative Update
	Deleted “to hardware or” from second sentence of last paragraph	Administrative Update

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Section	Section	Section
5.3 References	<p>Updated the following References:</p> <p>5-5. Added "(R2012)" to reference 5-5</p> <p>Updated dates in the following references:</p> <p>5-2. Regulatory Guide 3.71, <i>Nuclear Criticality Safety Standards for Fuels and Material Facilities</i>, U.S. Nuclear Regulatory Commission, Revision 2, December 2010.</p> <p>5-3. ANSI/ANS 8.1-2014, <i>Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors</i>, American Nuclear Society, April 2014.</p> <p>5-4. ANSI/ANS 8.19-2014, <i>Administrative Practice for Nuclear Criticality Safety</i>, American Nuclear Society, July 2014.</p> <p>Removed the following references:</p> <p>5-4. ANSI/ANS 8.3-1997 (R2003), <i>Criticality Accident Alarm System</i>, American Nuclear Society, January 1997.</p> <p>5-6. ANSI/ANS 8.21-1995 (R2001), <i>Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors</i>, American Nuclear Society, January 1995.</p> <p>5-7. ANSI/ANS 8.22-1997 (R2006), <i>Nuclear Criticality Safety Based on Limiting and Controlling Moderators</i>, American Nuclear Society, January 1997.</p> <p>5-8. ANSI/ANS 8.23-1997, <i>Nuclear Criticality Accident Emergency Planning and Response</i>, American Nuclear Society, January 1997.</p> <p>5-10. ANSI/ANS 8.26-2007, <i>Criticality Safety Engineer Training and Qualification Program</i>, American Nuclear Society, June 2007.</p> <p>5-11. ARH-600, <i>Criticality Handbook</i>, R. D. Carter, G. R. Kiel, and K. R. Ridgway, Atlantic Richfield Hanford Co. Report, 1968.</p> <p>Added the following references:</p> <p>5-7. GEH CSA No. 100.01 – 235U/239Pu Equivalence Factor (Rev.0), November 2006</p> <p>5-8. GEMER Monte Carlo Code Validation Report (Rev. 5.0), September 2014</p>	Administrative Update