

ESBWR DCD Tier 2 Chapter 12

26A6642BJ Revision 7 to Revision 8 Change List

Item	Location	Description of Change
1.	Entire Chapter	Header changed from Rev 7 to Rev 8.
2.	S12.2.2.1, 3 rd paragraph	Paragraph revised to describe how ESBWR meets 10 CFR 50 Appendix I gaseous effluent dose criteria, per the revised partial response (Part 2) to RAI 12.2-28. Reference MFN 09-786, Supplement 1, Revision 1.
3.	T12.2-15, 5 th row	Per the revised partial response (Part 2) to RAI 12.2-28, a generic meteorology boundary does not apply to the standard design. Reference MFN 09-786, Supplement 1, Revision 1.
4.	S12.3.1.2.1, 2 nd paragraph, 2 nd sentence	<p>Changed: “The shielding materials used in these applications include lead-loaded silicone foam...”</p> <p>To: “Examples of the shielding materials used in these applications include a modified high density silicone elastomer...”</p> <p>to be consistent with currently available materials. Reference MFN 10-309.</p>
5.	S12.3.1.4.3, 4 th paragraph, 3 rd sentence	<p>Changed: “A lead-loaded silicone foam is employed...”</p> <p>To: “A modified high density silicone elastomer is employed...”</p> <p>to be consistent with currently available materials. Reference MFN 10-309.</p>
6.	S12.3.2.2.1, 1 st paragraph, last bullet, 3 rd sentence	<p>Changed: “Where special circumstances dictate, steel, lead, water, lead-loaded silicone foam...”</p> <p>To: “Where special circumstances dictate, steel, lead, water, a modified high density silicone elastomer...”</p> <p>to be consistent with currently available materials. Reference MFN 10-309.</p>

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7.	S12.3.2.2.3, 6 th paragraph, 3 rd sentence	<p>Changed: “The penetrations through interior shield walls of the Reactor Building are shielded using a lead-loaded silicone sleeve...”</p> <p>To: “The penetrations through interior shield walls of the Reactor Building are shielded using a modified high density silicone elastomer...”</p> <p>to be consistent with currently available materials. Reference MFN 10-309.</p>
8.	S12.3.4, 1 st paragraph, 4 th bullet	<p>Reworded bullet information to explain that portable continuous air monitors provide the airborne radioactivity monitoring to meet requirements for worker protection in the local areas. This change was made via the revised response to RAI 14.3-174 S01. Reference MFN 10-178.</p>
9.	S12.3.4, 1 st paragraph, 5 th bullet	<p>Added bullet to describe that ESBWR has installed detectors that can be used to supplement portable CAMs for the purpose of evaluating radiological conditions in occupied areas to address an ACRS subcommittee (August 17, 2010) concern. Reference MFN 10-243.</p>
10.	S12.3.4.1	<p>Corrected "non-1E" to "nonsafety-related" and "vital" to "uninterruptible" for consistency with standard terminology used throughout the DCD. Reference MFN 10-186.</p>
11.	F12.3-7	<p>Added Note 3 to indicate change in radiation zone in response to RAI 12.2-19 S03. Reference MFN 09-498.</p>
12.	F12.3-10	<p>Added Note 8 to indicate change in radiation zone in response to RAI 12.2-19 S03. Reference MFN 09-498.</p>
13.	F12.3-11	<p>Added Note 3 to indicate change in radiation zone in response to RAI 12.2-19 S03. Reference MFN 09-498.</p>