

ESBWR DCD Tier 2 Chapter 9

26A6642AY Revision 7 to Revision 8 Change List

Item	Location	Description of Change
1.	Entire Chapter	Header changed from Rev 7 to Rev 8.
2.	S9.1, 4 th paragraph, 1 st sentence	Corrected sentence to clarify that new fuel storage racks in the Reactor Building buffer pool contain storage space for exactly (not minimum of) 476 new fuel assemblies, in standard design. Reference MFN 10-161.
3.	S9.1.1.2, 1 st paragraph, 1 st sentence	Corrected sentence to clarify that new fuel storage racks in the Reactor Building buffer pool contain storage space for exactly (not minimum of) 476 new fuel assemblies, in standard design. Reference MFN 10-161.
4.	S9.1.1.3, 1 st paragraph, 1 st sentence	Corrected sentence to clarify that new fuel storage racks in the Reactor Building buffer pool contain storage space for exactly (not minimum of) 476 new fuel assemblies, in standard design. Reference MFN 10-161.
5.	S9.1.1.6, 1 st paragraph, 1 st sentence	Corrected sentence to clarify that new fuel storage racks in the Reactor Building buffer pool contain storage space for exactly (not minimum of) 476 new fuel assemblies, in standard design. Reference MFN 10-161.
6.	S9.1.2.4, 2 nd paragraph, last sentence	Modified safe water level in the spent fuel pool to ensure adequate inventory for shielding and loss of active fuel pool cooling. Reference MFN 10-189 Revision 2.
7.	S9.1.2.7, last paragraph	Changed to read that water level in the SFP after 72 hours remains above the top of the irradiated fuel assemblies, not just top of active fuel. Reference MFN 10-189 Revision 2.
8.	S9.1.3.2, 9 th paragraph, 2 nd sentence	Revised description of RB and FB pressure relief devices to reflect safety-related classification as approved by Engineering Change. Reference MFN 08-273 Supplement 1.

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9.	S9.1.3.2, 9 th paragraph	Revised paragraph to describe normal water levels and minimum free water volume for the spent fuel pool and buffer pool. Reference MFN 10-189 Revision 2.
10.	S9.1.3.2, 15 th paragraph	Added new 4 th bullet to list “Interconnection with GDCS” per revised response to RAI 9.1-134. Reference MFN 09-726, Supplement 2.
11.	S9.1.3.2, “Detailed System Description”, 12 th paragraph, 2 nd sentence	Corrected location of anti-siphon holes to 10.26 m above the top of stored fuel bundles to ensure adequate inventory for loss of active fuel pool cooling and shielding. Reference MFN 10-189 Revision 2.
12.	S9.1.3.2, “Detailed System Description”, 12 th paragraph, new 3 rd sentence	Added sentence, “There are no other drainage paths by which the level in the SFP or buffer pool could be reduced.” Reference MFN 10-189 Revision 2.
13.	S9.1.3.5, 3 rd paragraph, 2 nd sentence	Clarified that the buffer pool and SFP water level instrumentation measures collapsed water level. Reference MFN 10-189 Revision 2.
14.	S9.1.7, Reference 9.1-1	Updated reference to NEDO-33373 in anticipation of approved status. MFN not available as of 10/4/2010.
15.	S9.1.7, Reference 9.1-2	Updated reference to NEDO-33374 to reflect its approved status. Reference MFN 10-298.
16.	T9.1-8, Heat Exchangers	Clarified capacity at normal conditions is 8.3 MW <u>minimum</u> . Added 20.1 MW abnormal condition. Clarified and expanded Performance Data for normal conditions. Added Performance Data for abnormal conditions. Also added clarifying notes (1) to (3) for abnormal conditions. Reference MFN 10-189 Revision 2.
17.	S9.2.5, 9 th paragraph, 1 st sentence	Clarified that ANS 5.1 is used to calculate decay heat in regard to ultimate heat sink. Reference MFN 10-189 Revision 2.

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18.	T9.2-3	Added Performance Data for abnormal decay heat loads. Also added note (4) to point to Table 9.1-8. Reference MFN 10-189 Revision 2.
19.	S9.5.1.11, 5 th paragraph	Corrected paragraph to reflect that the MCR complex is separated from the rest of the CB with 3-hour fire barriers, while the MCR itself is separated from other rooms in the MCR complex with 1-hour fire barriers. Reference MFN 10-201.
20.	S9.5.2, 1 st paragraph, 2 nd sentence	<p>Rewrote sentence from:</p> <p>The communication system allows guards and watchmen on duty to maintain continuous communication with personnel in manned alarm station, and offsite/onsite agencies as required by 10 CFR 73, Sections 55(e) and (f) (Reference 9.5.2-3).</p> <p>To:</p> <p>The communication system allows guards and watchmen on duty to maintain continuous communication with personnel in manned alarm stations, and offsite/onsite agencies as required by 10 CFR 73, Section 55 (Reference 9.5.2-3).</p> <p>This change updates the reference to 10 CFR 73 Section 55 to reflect the January 1, 2010 edition and as requested per e-mail from Dennis Galvin (NRC) to Timothy Enfinger (GEH), dated August 13, 2010. It is considered an editorial change.</p> <p>Reference MFN 10-237.</p>

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21.	S9.5.2, 1 st paragraph, 7 th bullet	<p>Rewrote information from: Completely independent radio system for security purposes as described in Section 13.6.</p> <p>To: Completely independent communications system for security purposes as described in Section 13.6.</p> <p>This change was requested per e-mail from Dennis Galvin (NRC) to Timothy Enfinger (GEH), dated August 13, 2010. It is considered an editorial change. Reference MFN 10-237.</p>
22.	S9.5.2.6, Reference 9.5.2-3	<p>Generalized reference from: 10 CFR 73 Section 55(e) and (f), “Physical Protection of Plants and Material”.</p> <p>To: 10 CFR 73 Section 55, “Requirements for Physical Protection of Licensed Activities in Nuclear Power Reactors Against Radiological Sabotage”.</p> <p>This change updates the reference to 10 CFR 73 Section 55 to reflect the January 1, 2010 edition and as requested per e-mail from Dennis Galvin (NRC) to Timothy Enfinger (GEH), dated August 13, 2010. It is considered an editorial change. Reference MFN 10-237.</p>