ESBWR DCD Tier 2 Sections 3.9-3.11

26A6642AK Revision 6 to Revision 7 Change List

Item	Location	Description of Change
1.	Entire Chapter	Global chapter editorial changes to correct misspelling and grammar, spell out or integrate acronyms where appropriate.
2.	S3.9.2.3, 3rd-to-last paragraph	Revised in response to NRC Comment #5 from the Regulatory Audit of Reactor Pressure Vessel Internals (MFN 09-621).
3.	S3.9.2.4, last paragraph	Revised to clarify COL applicant responsibilities (MFN 06-464 Supplement 9, Revision 2).
4.	S3.9.3.7.4, 2nd paragraph	Extensive revision to paragraph to add description of the methodology by which the impulsive and convective hydrodynamic loads are evaluated for the ICS and PCCS condensers in response to RAI 3.9-247 S01.
5.	S3.9.9, COL Item 3.9.9-1-A	Revised item to clarify COL applicant responsibilities (MFN 06-464 Supplement 9, Revision 2).
6.	S3.11.1.1, 6th bullet, sub-bullet a.	Added "series" to end of IEC 61000-4 to read IEC 61000-4 series in response to RAI 3.11-39 Rev. 2. (MFN-09-701 Rev 2).
7.	S3.11.1.3, Definitions	Added a definition for "Equipment" in the context of a unit to be submitted to an EQ type test in response to RAI 3.11-28 S01.
8.	S 3.11.3.1, Temperature, last paragraph	Added "for Harsh Environment and IEEE 323-2003 for Mild Environment" in response to RAI 3.11-39. (MFN-09-701, Revision 1).
9.	S 3.11.3.1, Pressure, last paragraph	Added "for Harsh Environment and IEEE 323-2003 for Mild Environment" in response to RAI 3.11-39. (MFN-09-701, Revision 1).
10.	S 3.11.3.1, Humidity, last paragraph	Added "for Harsh Environment and IEEE 323-2003 for Mild Environment" in response to RAI 3.11-39. (MFN-09-701, Revision 1).
11.	S 3.11.3.1, Radiation, last paragraph	Added "for Harsh Environment and IEEE 323-2003 for Mild Environment" in response to RAI 3.11-39. (MFN-09-701, Revision 1).

Item	Location	Description of Change
12.	S 3.11.3.1, Electromagnetic interference (EMI)/radio frequency interference (RFI) and Voltage Surges	Added "EPRI TR-102323 –1994 (as approved by NRC Safety Evaluation Report dated April 16 1996)" in response to RAI 3.11-39.
13.	S3.11.3.1, Electromagnetic (EMI)/radio frequency interference (RFI) and Voltage Surges, 2nd paragraph	Revised to state EMI qualifications follow the requirements defined in "EPRI TR-102323–1994 (as approved by NRC Safety Evaluation Report dated April 16 1996) or MIL-STD-461E or IEC 61000-4 series". Per RAI 3.11-39 Rev. 2. (MFN-09-701 Rev 2).
14.	S 3.11.4.1, 3rd-to-last paragraph	Deleted "and documentation" in response to RAI 3.11-39. (MFN-09-701, Revision 2).
15.	S3.11.4.2, 1st and 2nd paragraphs	Added to beginning of section, in response to RAI 3.11-39, (MFN-09-0701): Per guidelines of Regulatory Guide 1.209 – 2007 and IEEE 323-2003 for qualification of Safety Related or Important to Safety digital I&C to be installed in a mild environment. b) For EMI/RFI qualification, as endorsed in Regulatory Guide 1.180, Rev 1, qualification methods shall be per EPRI TR-102323 -1994, Mil Std 461E or IEC 61000 Series.
16.	S3.11.4.2, 2nd paragraph	Revised to state EMI qualifications follow the requirements defined in "EPRI TR-102323–1994 (as approved by NRC Safety Evaluation Report dated April 16 1996) or MIL-STD-461E or IEC 61000-4 series". Per RAI 3.11-39 Rev. 2. (MFN-09-702 Rev 2).
17.	S3.11.4.3, 1st paragraph	Revised to add reference to RG 1.180 in response to RAI 3.11-39. (MFN-09-701).
18.	S3.11.4.3, 3rd para., 5th bullet	Updated bullet as follows in response to RAI 3.11-28 S01: Testing of representative sample of the equipment as a complete system contained within its cabinet or enclosure is preferred.

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19.	S3.11.4.3, 4th paragraph	Revised in response to RAI 3.11-39, stating compliance to 10CFR50.49 for mild environment qualification and listed four conditions from 10CFR50.49.
20.	S3.11.8	Marked Reference 3.11-6 as Tier 2* information and added Tier 2* note under reference list, in response to RAI 8.3-68.
21.	S3.11.8, Reference 3.11-6	Updated reference to current revision, in response to RAI 8.3-64 S02.
22.	T3.9-9	Changed NB-3654 to NB-3655 in Service Level C Acceptance Criteria and NB-3654 to NB-3656 in Service Level D Acceptance Criteria (MFN-10-087).
23.	T3.11-1, Isolation Condenser System, Lower Header Vent Valve Actuator	Changed Quantity from 16 to 12 since four of these valves are relief valves (MFN 10-079, including Supplement 1).
24.	T3.11-1, Standby Liquid System, Accumulator Relief Valve	Changed Function from PB to ESF for accuracy (MFN 10-079).
25.	T3.11-1, Reactor Water Cleanup/Shutdown Cooling System	Corrected Functions for several valves (MFN 10-079).
26.	T3.11-1, Chilled Water System, Valves	Changed Quantity to All (MFN 10-079).
27.	T3.11-1, Service Water System, Valves	Changed Quantity to All (MFN 10-079).
28.	T3.11-1, Passive Containment Cooling System, Vent Fan Check Valves	Deleted “ball” from Component name (MFN 10-079).
29.	T3.11-1, Note 1	Added last sentence for clarification (MFN 10-079).
30.	T3.11-1, Note 2	Added “Containment” before “Isolation,” “Primary” before “Pressure Boundary” and last sentence for clarification (MFN 10-079).
31.	T3.11-1, Note 3	Added last sentence for clarification (MFN 10-079).
32.	T3.11-1, Note 4	Added last sentence for clarification (MFN 10-079).