

That's ESBWR DCD Tier 2 Chapter 7

26A6642AW Revision 7 to Revision 8 Change List

Item	Location	Description of Change
1.	Entire Chapter	Header changed from Rev 7 to Rev 8.
2.	Entire Chapter	Gave a clear description to each “processor” instance in the text (e.g. controller application processor, data communication processor). Reference MFN 10-269
3.	Entire Chapter	Update/Clarify the Independent Control Platform (ICP) definition. Reference MFN 10-269
4.	S7.1.2, 1 st paragraph, 7 th bullet (new)	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) to the ICP platform. Added new sentence about the implementation of the ICP platform. Reorderd bulletts. Reference MFN 10-044 Supplement 3.
5.	S7.1.2, S7.1.2.1, S7.1.2.1.1, S7.1.2.1.2, S7.1.2.1.3, S7.1.2.1.4, S7.1.2.1.5, S7.1.2.8.7, S7.1.2.8.8, S7.1.3.4, Response time test	Updated/added new paragraphs and sections. Added new sections to describe more in detail; Independence, Determinism, Redundancy, Defense In Depth and Diversity, and Simplicity as it apply to ESBWR Q-DCIS implementation per internal corrective action. Reference MFN 10-269
6.	S7.1.2.8	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) to the ICP platform. Reference MFN 10-044 Supplement 3.
7.	S7.1.2.8.1	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) to the ICP platform. Reference MFN 10-044 Supplement 3.
8.	S7.1.2.8.3	Editorial Change. Reference MFN 10-044 Supplement 3.
9.	S7.1.2.8.3.1.3	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) to the ICP platform and new ICS Vent Function to DPS. Reference MFN 10-044 Supplement 3.

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10.	S 7.1.2.8.9 (new)	Added in response to RAI 6.2-202 S01. New subsection for the new ICS DPV Isolation Function. Reference MFN 10-044 Supplement 3.
11.	S7.1.5.2.4.5	Updated to better describe the Technical Spec. Monitor functions per internal corrective action. Reference MFN 10-269.
12.	S7.1.6.6	Editorial Change. Replaced the ICP functions with the ICP platform for consistency. Reference MFN 10-044 Supplement 3.
13.	S7.1.6.6.1	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) to the ICP platform. Added clarification about the location of the ICP hardware. Reference MFN 10-044 Supplement 3.
14.	S7.1.6.6.1.1	Revised in response to RAI 6.2-202 S01. New bullet for the new ICS DPV Isolation Function (IDIF). Reference MFN 10-044 Supplement 3.
15.	S7.1.6.6.1.2	Deleted “inter-divisional” per internal corrective action. Reference MFN 10-044 Supplement 3.
16.	S7.1.6.6.1.17	Added more clarity to the 1 st paragraph. Reference MFN 10-304.
17.	S7.1.6.6.1.18	Revised in response to RAI 6.2-202 S01. Added ICP functions to the manual initiation. Reference MFN 10-044 Supplement 3.
18.	S7.1.8, Ref. 7.1-4 and S7.8.7, Ref. 7.8-1	Changed revision number and date of the “ESBWR I&C Diversity and Defense-In-Depth Report” (NEDO-33251) to “Revision 3, September 2010” due to RAI 6.2-202 S01. Reference MFN 10-300.
19.	S7.1.8, Ref. 7.1-8 and S7B.3, Ref. 7B.3-3	Changed revision number and date of the “ESBWR Cyber Security Program Plan,” (NEDE-33295 and NEDE-33295P) to “Revision 2, September 2010”. These reports were updated per the new RG 1.152. Reference MFN 10-267.

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20.	S7.1-9, 7.2-1, 7.3-2, 7.4-2, 7.5-2, 7.8-4 (References)	Update references for NED-33304 to Revision 4 issued in MFN 09-775 Rev 2, and designated these references as Tier 2*. Reference MFN 10-162 Supplement 1.
21.	S7.2.1.2.1	Editorial Change. Reference MFN 10-044 Supplement 3.
22.	T7.1-1	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) under the ICP platform. Reference MFN 10-044 Supplement 3.
23.	T 7.1-2	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) under the ICP platform. Reference MFN 10-044 Supplement 3.
24.	F7.1-1	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) under the ICP platform and PCCS igniters under the non-safety PLC. Reference MFN 10-044 Supplement 3.
25.	F7.1-3, Deluge System, 4 th paragraph (new), 5 th , 6 th , 7 th and 9 th paragraphs	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) under the ICP platform, and corrected the power to DPS and HP CRD Isolation Bypass Valve function. Reference MFN 10-044 Supplement 3.
26.	S7.3.1.2.2, Deluge System, 4 th paragraph (new), 5 th , 6 th , 7 th and 9 th paragraphs	Revised in response to RAI 6.2-202 S01. Added the new PCCS igniters to the non-safety PLC. Reference MFN 10-044 Supplement 3.
27.	S7.3.1.2.2, Deluge System, 1 st and 3 rd para.	Updated to clarify that the dedicated low drywell temperature switched serve as power permissives for the deluge system; per internal corrective action. Reference MFN 10-304.
28.	S7.3.1.2.3, 7 th paragraph	Revised in response to RAI 6.2-202 S01. Added safety evaluation for the new PCCS. Reference MFN 10-044 Supplement 3.

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29.	S7.3.1.2.5, 2 nd paragraph	Revised in response to RAI 6.2-202 S01. Added I&C Requirements for the new PCCS. Reference MFN 10-044 Supplement 3.
30.	S7.3.2	Revised in response to RAI 6.2-202 S01. Added the new PCCS igniters to the non-safety PLC. Clarified that PCCS vent fan isolation valves are manually initiated. Reference MFN 10-044 Supplement 3.
31.	S7.3.3	Revised in response to RAI 6.2-202 S01 regarding the addition of the new ICS DPV Isolation Function. Reference MFN 10-044 Supplement 3.
32.	S7.3.7 (new)	Added in response to RAI 6.2-202 S01. New Subsection for the new ICS DPV Isolation Function (IDIF) implemented in the ICP platform. Reference MFN 10-044 Supplement 3.
33.	S7.4.4.3, 3 rd paragraph, 1 st sentence	Added “and vent valves” per response to RAI 6.2-202 S01. MFN 10-044 Supplement 3.
34.	S7.4.4.3, new 5 th paragraph	Added new 5 th paragraph per response to RAI 6.2-202 S01. “The ICS is automatically isolated to mitigate buildup of noncondensable gases during LOCA events. The signal that isolates ICS is a confirmed opening of any two DPVs with a time delay. Reference MFN 10-044 Supplement 3.
35.	F7.3-5	Revised in response to RAI 6.2-202 S01. New IDIF function in the ICP platform. Reference MFN 10-044 Supplement 3.
36.	S7.4.4.1	Revised in response to RAI 6.2-202 S01. ICS functions are implemented in SSLC/ESF and ICP. Reference MFN 10-044 Supplement 3.
37.	S7.4.4.3	Revised in response to RAI 6.2-202 S01. ICS functions are implemented in SSLC/ESF and ICP. Reference MFN 10-044 Supplement 3.

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38.	S7.4.4.3.1	Deleted 10 CFR 50.62 from the ICS Safety Evaluation since it is not applicable to this system. Reference MFN 10-044 Supplement 3.
39.	S7.5.1.3.3, 1 st bullet	Replaced “The alarm management system (AMS)” with “The PAM instrumentation” to be consistent with since S7.5.1 is for Post-Accident Monitoring Instrumentation (PAM); per internal corrective action. Reference MFN 10-269
40.	S7.7.9, Reference 7.7-1	Changed revision number and date of the “Gamma Thermometer System for LPRM Calibration and Power Shape Monitoring,” (NEDE-33197P-A and NEDO-33197-A) to “Revision 3, October 2010”. These reports were updated to incorporate the NRC SER. Reference MFN 10-301.
41.	S7.8.1, 20 th paragraph, 2 nd bullet	Revised in response to RAI 6.2-202 S01. Added ICS Vent Function to DPS. Reference MFN 10-044 Supplement 3.
42.	S7.8.1, new 7 th to 16 th paragraphs	Added new sections to describe more in detail; Independence, Determinism, Redundancy, Defense In Depth and Diversity, and Simplicity as it apply to ESBWR N-DCIS DPS implementation per internal corrective action. Reference MFN 10-269
43.	S7.8.1.2.5	Revised in response to RAI 6.2-202 S01. Added ICS Vent Function to DPS. Reference MFN 10-044 Supplement 3.
44.	T7.8-3	Revised in response to RAI 6.2-202 S01. Added ICS Vent Function to DPS. Reference MFN 10-044 Supplement 3.
45.	T7B-1	Revised in response to RAI 6.2-202 S01. Added new ICS DPV Isolation Function (IDIF) under the ICP platform. Reference MFN 10-044 Supplement 3.