

for
26A6642BR, ESBWR DCD Tier 2, Chapter 16 Technical Specifications

Item	Section	Subsection	Description of Change	Brief Reason for Change
1	16.00 Intro	NA	Reference to NUREG-1434 Revision used as basis is changed to reflect Revision 3.1 (per RAI 16.0-6; MFN-06-431).	Revision 3.1 reflects a more complete model than the previously referenced Revision 3.
2	16.00 Intro	NA	Deleted an example of TS Section 3.3 Completion Times being different than NUREG-1434.	The revised ESBWR Section 3.3, based on LCO requirements for only 3 channels operable, no longer fits with this discussion. Replacement detail not deemed necessary.
3	16.00 Intro	NA	Expanded discussion of "brackets" to include acknowledgement of curly brackets as DCD issues and not COL Information Items.	RAI 16.2-102 indicated this distinction. While no commitment was made to revise the DCD, this revision is made for overall clarity.
4	16.00 TOC	ALL	All Specifications revised to Revision 2 with the exception of 3.3.3.2, 3.6.1.1, 3.6.3.1, 3.9.1, 3.9.2, 3.9.3, 3.9.4, 3.9.7, 3.10.2, 3.10.6, and 3.10.7, which remain at Revision 1.	Consistent with Specification revision status
5	16.00 TOC	3.7.1	Specification renumbered from 3.7.1 to 3.7.2.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1
6	16.00 TOC	3.7.2	Specification renumbered from 3.7.2 to 3.7.3.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1
7	16.00 TOC	3.7.3	Specification renumbered from 3.7.3 to 3.7.4.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1
8	16.00 TOC	3.7.4	Specification renumbered from 3.7.4 to 3.7.5.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1
9	16.00 TOC	3.7.5	Specification renumbered from 3.7.5 to 3.7.1.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1
10	16.00 TOC	3.8.1	Title revised from "24 hour DC Sources - Operating" to "DC Sources - Operating."	Consistent with Specification title change due to N-2 Design Change
11	16.00 TOC	3.8.2	Specification deleted.	Consistent with Specification deletion due to N-2 Design Change
12	16.00 TOC	3.8.3	Specification renumbered from 3.8.3 to 3.8.2, and title revised from "24 hour DC Sources - Shutdown" to "DC Sources - Shutdown."	Consistent with Specification number and title change due to N-2 Design Change
13	16.00 TOC	3.8.4	Specification renumbered from 3.8.4 to 3.8.3.	Consistent with Specification number change due to N-2 Design Change
14	16.00 TOC	3.8.5	Specification renumbered from 3.8.5 to 3.8.4.	Consistent with Specification number change due to N-2 Design Change

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15	16.00 TOC	3.8.6	Specification renumbered from 3.8.6 to 3.8.5.	Consistent with Specification number change due to N-2 Design Change
16	16.00 TOC	3.8.7	Specification renumbered from 3.8.7 to 3.8.6.	Consistent with Specification number change due to N-2 Design Change
17	16.00 TOC	3.8.8	Specification renumbered from 3.8.8 to 3.8.7.	Consistent with Specification number change due to N-2 Design Change
18	16.01	Definitions	Converted [] to { } for DE I-131, Response Times, TBV "80%" limit.	GE to resolve prior to Certification. (RAI 16.0-2)
19	16.01	Definitions	Removed brackets [] from pump and added "into the drywell" and pump "seals".	RAI 16.2-10 (MFN 06-431)
20	16.01	Definitions	Removed brackets [] surrounding "each class of fuel" in the MCPD definition.	The definition is generically applicable without the brackets.
21	16.02.01.01.01	2.1.1.1	Revised brackets from square brackets to curly brackets in four places.	RAI 16.0-2 (MFN 06-431)
22	16.02.01.01.02	2.1.1.2	Revised brackets from square brackets to curly brackets in three places.	RAI 16.0-2 (MFN 06-431)
23	16.02.01.02	2.1.2	Revised brackets from square brackets to curly brackets in two places.	RAI 16.0-2 (MFN 06-431)
24	16.03.00	LCO 3.0.3	Completion Time to reach MODE 4 revised to 25 hours and Completion Time to reach MODE 5 revised to 37 hours.	Revised Completion Times based on RAI 16.2-16 response.
25	16.03.01.01	LCO a	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
26	16.03.01.01	LCO b	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
27	16.03.01.02	SR 3.1.2.1	Removed brackets from [1000 MWD/T] Frequency.	Consistent with NUREG-1434, Revision 3.1, and because ESBWR fuel design and core management is not significantly different than that of the BWR/6.
28	16.03.01.03	ACTIONS A.3	Removed the word "each" in the phrase "from each discovery of" in the stated Completion Time.	RAI 16.2-19 (MFN 06-431)
29	16.03.01.03	ACTIONS D	Applied curly brackets to {10}%.	RAI 16.0-2 (MFN 06-431)
30	16.03.01.03	SR 3.1.3.4	Revised brackets from square brackets to curly brackets in two places.	RAI 16.0-2 (MFN 06-431)

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31	16.03.01.04	LCO a	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
32	16.03.01.04	LCO b	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
33	16.03.01.04	SR 3.1.4.1	Revised brackets from square brackets to curly brackets in one place, and revised metric unit value significant digits.	RAI 16.0-2 (MFN 06-431), and consistency with English unit value significant digits
34	16.03.01.04	SR 3.1.4.2	Revised brackets from square brackets to curly brackets in one place, and revised metric unit value significant digits.	RAI 16.0-2 (MFN 06-431), and consistency with English unit value significant digits
35	16.03.01.04	SR 3.1.4.4	Revised brackets from square brackets to curly brackets in one place, and revised metric unit value significant digits.	RAI 16.0-2 (MFN 06-431), and consistency with English unit value significant digits
36	16.03.01.04	Table 3.1.4-1	Revised brackets from square brackets to curly brackets in ten places.	RAI 16.0-2 (MFN 06-431)
37	16.03.01.04	Table 3.1.4-1	Deleted column labeled "REACTOR STEAM DOME PRESSURE(b) 0 MPaG (0 psig)," and deleted Note (c).	RAI 16.2-22 (MFN 06-431)
38	16.03.01.04	Table 3.1.4-1	Renumbered Note (b) as Note (c), changed references in table from Note (b) to Note (c), added reference to Note (b) to "SCRAM TIMES" in the first row of the table, and added new Note (b) that states "Scram times as a function of reactor steam dome pressure, when < {6.55 MPaG (950 psig)}, are within established limits."	RAI 16.2-22 (MFN 06-431)
39	16.03.01.04	Table 3.1.4-1	Revised metric unit value significant digits.	Consistency with English unit value significant digits
40	16.03.01.04	Table 3.1.4-1 NOTE 2	Revised brackets from square brackets to curly brackets in two places.	RAI 16.0-2 (MFN 06-431)
41	16.03.01.05	SR 3.1.5.1	Revised brackets from square brackets to curly brackets in one place, and revised metric unit value significant digits.	RAI 16.0-2 (MFN 06-431), and consistency with English unit value significant digits
42	16.03.01.06	APPLICABILITY	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
43	16.03.01.07	Figure 3.1.7-1	Changed brackets from [] to { } for Figure 3.1.7-1.	GE to resolve prior to Certification. (RAI 16.0-2)
44	16.03.01.07	SR 3.1.7.6	Revised Frequency for SR 3.1.7.6 per RAI 16.2-106.	RAI 16.2-106
45	16.03.01.07	SR 3.1.7.8	Added SR 3.1.7.8 per RAI 16.2-93.	RAI 16.2-93
46	16.03.02.01	APPLICABILITY	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)

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47	16.03.02.01	ACTIONS B.1	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
48	16.03.02.01	SR 3.2.1.1	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
49	16.03.02.02	APPLICABILITY	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
50	16.03.02.02	ACTIONS B.1	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
51	16.03.02.02	SR 3.2.2.1	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
52	16.03.03.01.01	LCO	Revised from four channels to three channels and tied required channels to required electrical systems.	N-2 Design Change
53	16.03.03.01.01	ACTIONS A	Revised Condition A to refer to "required" channel. Deleted Action to place channel in bypass and removed brackets surrounding "12" hour Completion Time to place channel in trip.	N-2 Design Change
54	16.03.03.01.01	ACTIONS A	Revised "Place" instrumentation division in trip" to "Verify."	RPS design does not include allowance for operator to place a division in trip.
55	16.03.03.01.01	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
56	16.03.03.01.01	ACTIONS C	Renumbered as Condition B. Removed bracket surrounding the "1" hour Completion Time.	Editorial and N-2 Design Change
57	16.03.03.01.01	ACTIONS D	Renumbered as Condition C.	Editorial
58	16.03.03.01.01	ACTIONS E	Renumbered as Condition D.	Editorial
59	16.03.03.01.01	ACTIONS E.1	Replaced square bracket surrounding "40"% RTP with curly brackets.	RAI 16.0-2
60	16.03.03.01.01	ACTIONS F	Renumbered as Condition E.	Editorial
61	16.03.03.01.01	ACTIONS F.1	Replaced square bracket surrounding "25"% RTP with curly brackets.	RAI 16.0-2
62	16.03.03.01.01	ACTIONS G	Renumbered as Condition F.	Editorial
63	16.03.03.01.01	ACTIONS H	Renumbered as Condition G.	Editorial
64	16.03.03.01.01	ACTIONS I	Renumbered as Condition H.	Editorial
65	16.03.03.01.01	SR 3.3.1.1.1	SR revised to refer to "each required channel."	N-2 Design Change

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66	16.03.03.01.01	SR 3.3.1.1.1	Frequency revised to remove square brackets.	PRA Topical is expected to provide evaluation supporting this Frequency.
67	16.03.03.01.01	SR 3.3.1.1.2	SR revised to refer to "each required channel."	N-2 Design Change
68	16.03.03.01.01	SR 3.3.1.1.2	Frequency revised to remove square brackets.	PRA Topical is expected to provide evaluation supporting this Frequency.
69	16.03.03.01.01	SR 3.3.1.1.3	SR revised to refer to "each required channel."	N-2 Design Change
70	16.03.03.01.01	SR 3.3.1.1.3	Frequency revised to remove square brackets.	PRA Topical is expected to provide evaluation supporting this Frequency.
71	16.03.03.01.01	SR 3.3.1.1.3	SR revised to require Channel Calibration to be consistent with Specification 5.5.11, Setpoint Control Program.	RAI 16.2-25 - ESBWR incorporation of TSTF-493
72	16.03.03.01.01	SR 3.3.1.1.4	SR revised to refer to "each required channel."	N-2 Design Change
73	16.03.03.01.01	SR 3.3.1.1.4	SR revised to clarify that Staggered Test Basis is based on 4 channels.	N-2 Design Change
74	16.03.03.01.01	T 3.3.1.1-1	Conditions Referenced from Required Action C.1 column revised to reflect changes in Condition renumbering with exception of Function 12.	Editorial
75	16.03.03.01.01	T 3.3.1.1-1	Last column of table revised from "Allowable Values" to "Setting Basis."	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
76	16.03.03.01.01	T 3.3.1.1-1 Function 03	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
77	16.03.03.01.01	T 3.3.1.1-1 Function 04	Removed Brackets and revised value for analytical limit to 7.619 MPaG.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
78	16.03.03.01.01	T 3.3.1.1-1 Function 05	Removed Brackets and revised value for analytical limit to 19.78 meters.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
79	16.03.03.01.01	T 3.3.1.1-1 Function 06	Removed Brackets and revised value for analytical limit to 21.89 meters.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
80	16.03.03.01.01	T 3.3.1.1-1 Function 06	Replaced square brackets surrounding "25"% RTP in Applicable Modes or Other Specified Conditions with curly brackets.	RAI 16.0-2
81	16.03.03.01.01	T 3.3.1.1-1 Function 07	Removed Brackets and revised value for analytical limit to 85%.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
82	16.03.03.01.01	T 3.3.1.1-1 Function 08	Removed Brackets and revised value for analytical limit to 13.8kPaG .	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.

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83	16.03.03.01.01	T 3.3.1.1-1 Function 09	Removed square brackets surrounding analytical limit.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD 15.2
84	16.03.03.01.01	T 3.3.1.1-1 Function 10	Removed brackets and revised value for limit to 85%.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1
85	16.03.03.01.01	T 3.3.1.1-1 Function 10	Replaced square brackets surrounding "40"" RTP in Applicable Modes or Other Specified Conditions with curly brackets.	RAI 16.0-2
86	16.03.03.01.01	T 3.3.1.1-1 Function 11	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2
87	16.03.03.01.01	T 3.3.1.1-1 Function 11	Replaced square brackets surrounding "40"" RTP in Applicable Modes or Other Specified Conditions with curly brackets.	RAI 16.0-2
88	16.03.03.01.01	T 3.3.1.1-1 Function 12	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2
89	16.03.03.01.01	T 3.3.1.1-1 Function 13	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2
90	16.03.03.01.02	LCO	Revised from four divisions to three divisions and tied required divisions to required electrical systems.	N-2 Design Change
91	16.03.03.01.02	ACTIONS A	Revised "Place" division in trip" to "Verify."	RPS design does not include allowance for operator to place a division in trip.
92	16.03.03.01.02	ACTIONS A	Revised Condition A to refer to "required" channel. Deleted Action to place channel in bypass and removed brackets surrounding "12" hour Completion Time to place channel in trip.	N-2 Design Change
93	16.03.03.01.02	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
94	16.03.03.01.02	ACTIONS C	Renumbered as Condition B. Removed bracket surrounding the "1" hour Completion Time.	Editorial and N-2 Design Change
95	16.03.03.01.02	ACTIONS D	Renumbered as Condition C.	Editorial
96	16.03.03.01.02	ACTIONS E	Renumbered as Condition D.	Editorial
97	16.03.03.01.02	SR 3.3.1.2.1	Revised to refer to "required" and replaced "channels" with "divisions."	N-2 Design Change and Editorial
98	16.03.03.01.02	SR 3.3.1.2.1	Revised Frequency to clarify that Staggered Test Basis is based on 4 divisions.	N-2 Design Change

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99	16.03.03.01.02	SR 3.3.1.2.1	Revised to refer to "required" and replaced "channels" with "divisions."	N-2 Design Change and Editorial
100	16.03.03.01.02	SR 3.3.1.2.2	Added SR for RPS Response Time Test every 24 months on Staggered Test Basis for four divisions.	Added RPS Response Time Test to ensure all portions of RPS circuitry are adequately tested.
101	16.03.03.01.03	ACTIONS A	Removed brackets surrounding 12 hour Completion Time.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
102	16.03.03.01.03	SR 3.3.1.3.1	Removed brackets surrounding 92 day Frequency.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
103	16.03.03.01.04	LCO	Revised from four divisions to three divisions and tied required divisions to required electrical systems.	N-2 Design Change
104	16.03.03.01.04	ACTIONS A	Revised Condition A to refer to "required" channel. Deleted Action to place channel in bypass and removed brackets surrounding "12" hour Completion Time to place channel in trip.	N-2 Design Change
105	16.03.03.01.04	ACTIONS A	Revised "Place" NMS division in trip" to "Verify."	Design does not include allowance for operator to place a division in trip.
106	16.03.03.01.04	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
107	16.03.03.01.04	ACTIONS C	Renumbered as Condition B. Removed bracket surrounding the "1" hour Completion Time.	Editorial and N-2 Design Change
108	16.03.03.01.04	ACTIONS D	Renumbered as Condition C.	Editorial
109	16.03.03.01.04	ACTIONS E	Renumbered as Condition D.	Editorial
110	16.03.03.01.04	ACTIONS F	Renumbered as Condition E.	Editorial
111	16.03.03.01.04	ACTIONS G	Renumbered as Condition F.	Editorial
112	16.03.03.01.04	ACTIONS H	Renumbered as Condition G.	Editorial
113	16.03.03.01.04	SR 3.3.1.4.1	Removed square brackets surrounding Frequency.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
114	16.03.03.01.04	SR 3.3.1.4.1	SR revised to refer to "each required channel."	N-2 Design Change
115	16.03.03.01.04	SR 3.3.1.4.2	SR revised to refer to "each required channel."	N-2 Design Change
116	16.03.03.01.04	SR 3.3.1.4.3	SR revised to refer to "each required channel."	N-2 Design Change
117	16.03.03.01.04	SR 3.3.1.4.3	Removed square brackets surrounding Frequency.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
118	16.03.03.01.04	SR 3.3.1.4.4	SR revised to refer to "each required channel."	N-2 Design Change

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119	16.03.03.01.04	SR 3.3.1.4.5	SR revised to refer to "each required channel."	N-2 Design Change
120	16.03.03.01.04	SR 3.3.1.4.5	SR revised to require Channel Calibration to be consistent with Specification 5.5.11, Setpoint Control Program.	RAI 16.2-25 - ESBWR incorporation of TSTF-493
121	16.03.03.01.04	SR 3.3.1.4.6	SR revised to refer to "each required channel."	N-2 Design Change
122	16.03.03.01.04	SR 3.3.1.4.7	SR revised to refer to "each required channel."	N-2 Design Change
123	16.03.03.01.04	SR 3.3.1.4.7	SR revised to clarify that Staggered Test Basis is based on 4 channels.	N-2 Design Change
124	16.03.03.01.04	T 3.3.1.4-1	Conditions Referenced from Required Action D.1 column revised to reflect changes in Condition renumbering.	Editorial
125	16.03.03.01.04	T 3.3.1.4-1	Last column of table revised from "Allowable Values" to "Setting Basis."	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
126	16.03.03.01.04	T 3.3.1.4-1 Function 1.a	Removed brackets and revised value to 45% for limit.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 7.2-2
127	16.03.03.01.04	T 3.3.1.4-1 Function 1.a	Replaced square brackets surrounding limit with curly brackets.	RAI 16.0-2
128	16.03.03.01.04	T 3.3.1.4-1 Function 1.b	Removed brackets and revised value to 10 seconds for limit.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 7.2-2
129	16.03.03.01.04	T 3.3.1.4-1 Function 2.a	Removed brackets and revised value to 15% for limit.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 7.2-4
130	16.03.03.01.04	T 3.3.1.4-1 Function 2.b	Removed brackets and revised value to 115% for limit.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1
131	16.03.03.01.04	T 3.3.1.4-1 Function 2.c	Removed brackets and revised value to 125% for limit.	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1
132	16.03.03.01.04	T 3.3.1.4-1 Function 3	Replaced square brackets surrounding Function Name and limit with curly brackets.	RAI 16.0-2
133	16.03.03.01.05	LCO	Revised from four divisions to three divisions and tied required divisions to required electrical systems.	N-2 Design Change
134	16.03.03.01.05	ACTIONS A	Revised Condition A to refer to "required" channel. Revised RA A.1 to require verification that division is in trip with Completion Time of 12 hours.	N-2 Design Change
135	16.03.03.01.05	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
136	16.03.03.01.05	ACTIONS C	Renumbered as Condition B. Removed bracket surrounding the "1" hour Completion Time.	Editorial and N-2 Design Change

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137	16.03.03.01.05	ACTIONS D	Renumbered as Condition C and deleted reference to Condition C from the Condition statement.	Editorial
138	16.03.03.01.05	ACTIONS E	Renumbered as Condition D.	Editorial
139	16.03.03.01.05	ACTIONS F	Renumbered as Condition E.	Editorial
140	16.03.03.01.05	SR 3.3.1.5.1	SR revised to refer to "each required channel."	N-2 Design Change
141	16.03.03.01.05	SR 3.3.1.5.1	Revised Frequency to clarify that Staggered Test Basis is based on four divisions.	N-2 Design Change
142	16.03.03.01.05	SR 3.3.1.5.2	Added SR for RPS Response Time Test every 24 months on Staggered Test Basis for four divisions.	Added RPS Response Time Test to ensure all portions of RPS circuitry are adequately tested.
143	16.03.03.01.05	T 3.3.1.5-1	Revised last column to reflect changes in Condition renumbering.	Editorial
144	16.03.03.01.06	SR 3.3.1.6.4	Revised SR to replace brackets surrounding "3.0" cps, "and if special movable detectors are being used in place of SRNM detectors verify," and signal to noise ratio of "2:1" with curly brackets.	RAI 16.0-2
145	16.03.03.01.06	T 3.3.1.6-1 Footnote a	Revised brackets surrounding footnote text from square to curly.	RAI 16.0-2
146	16.03.03.01.06	T 3.3.1.6-1 Footnote b	Revised brackets surrounding footnote text from square to curly.	RAI 16.0-2
147	16.03.03.02.01	ACTIONS A	Relocated acronym "(ATLM)" in CONDITION A.	Editorial change
148	16.03.03.02.01	ACTIONS A	Removed square brackets from COMPLETION TIME.	PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies
149	16.03.03.02.01	ACTIONS B	Removed square brackets from COMPLETION TIME.	PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies
150	16.03.03.02.01	SR NOTES	Removed square brackets from delaying entry into associated Conditions and Required Actions in the second Note.	PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies
151	16.03.03.02.01	SR 3.3.2.1.1	Revised ">" to "≥."	For consistency between ATLM and RWM LPSP descriptions
152	16.03.03.02.01	SR 3.3.2.1.1	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
153	16.03.03.02.01	SR 3.3.2.1.1	Removed square brackets from FREQUENCY.	PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies

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Item	Section	Subsection	Description of Change	Brief Reason for Change
154	16.03.03.02.01	SR 3.3.2.1.2	Removed "at \leq [10]%"	Editorial change, value not necessary to define unit conditions being described
155	16.03.03.02.01	SR 3.3.2.1.2	Removed square brackets from FREQUENCY.	PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies
156	16.03.03.02.01	SR 3.3.2.1.3	Added "THERMAL POWER is" and removed "in MODE 1."	Editorial changes, for consistency with other notes, and value not necessary to define unit conditions being described
157	16.03.03.02.01	SR 3.3.2.1.3	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
158	16.03.03.02.01	SR 3.3.2.1.3	Removed square brackets from FREQUENCY.	PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies
159	16.03.03.02.01	SR 3.3.2.1.4	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
160	16.03.03.02.01	SR 3.3.2.1.5	Revised "ATML" to "ATLM."	Typographical error
161	16.03.03.02.01	SR 3.3.2.1.5	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
162	16.03.03.02.01	Table 3.3.2.1-1	Revised ">" to " \geq " in footnote (a).	For consistency between ATLM and RWM LPSP descriptions
163	16.03.03.02.01	Table 3.3.2.1-1	Revised brackets from square brackets to curly brackets in two places in footnotes (a) and (b).	RAI 16.0-2 (MFN 06-431)
164	16.03.03.03.01	LCO	Added "Two channels of each Type A" to designate the applicable PAM Instrument Functions and channels required by the Specification, and deleted reference to "Functions in Table 3.3.3.1-1."	Consistent with position that only 2 channels of Type A Functions as defined in Regulatory Guide 1.97, Revision 4, and further identified in the ESBWR DCD or supporting documentation will be required PAM instrumentation in the Technical Specifications. Therefore, the Table is deleted since the listing of Type A PAM Functions will be defined elsewhere in the ESBWR licensing basis. This is similar to the treatment of Remote Shutdown System Instrumentation in DCD Tier 2, Chapter 16, Specification 3.3.3.2.
165	16.03.03.03.01	ACTIONS NOTES	Removed NOTE that "LCO 3.0.4.c is applicable."	RAI 16.2-72 (MFN 06-431)

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Item	Section	Subsection	Description of Change	Brief Reason for Change
166	16.03.03.03.01	ACTIONS A	Added "required Type A PAM" before "Functions" in CONDITION.	Consistent with position that only Type A Functions as defined in Regulatory Guide 1.97, Revision 4, and further identified in the ESBWR DCD or supporting documentation will be required PAM instrumentation in the Technical Specifications.
167	16.03.03.03.01	ACTIONS B	Deleted ACTION B.	Condition, Required Actions, and Completion Time addressed in revised ACTION C.
168	16.03.03.03.01	ACTIONS C	Added "required Type A PAM" before "Functions" in CONDITION, and renumbered as ACTION B.	Consistent with position that only Type A Functions as defined in Regulatory Guide 1.97, Revision 4, and further identified in the ESBWR DCD or supporting documentation will be required PAM instrumentation in the Technical Specifications.
169	16.03.03.03.01	ACTIONS D	Deleted reference to original Condition C, replaced "Enter the Condition referenced in Table 3.3.3.1-1 for the channel" in REQUIRED ACTION with "Initiate action in accordance with Specification 5.6.5," and renumbered as ACTION C.	Consistent with position that only 2 channels of Type A Functions as defined in Regulatory Guide 1.97, Revision 4, and further identified in the ESBWR DCD or supporting documentation will be required PAM instrumentation in the Technical Specifications. Therefore, the Table is deleted since the listing of Type A PAM Functions will be defined elsewhere in the ESBWR licensing basis. Also, consistent with position that shutdown is not required for inoperable PAM Instrumentation Functions since monitoring of the ESBWR passive safety-related systems is not as critical of a function for ensuring adequate system response as monitoring of an active, operating safety-related system in a non-passive design.
170	16.03.03.03.01	ACTIONS E and F	Deleted ACTION E and ACTION F.	Consistent with position that shutdown is not required for inoperable PAM Instrumentation Functions since monitoring of the ESBWR passive safety-related systems is not as critical of a function for ensuring adequate system response as monitoring of an active, operating safety-related system in a non-passive design.

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Item	Section	Subsection	Description of Change	Brief Reason for Change
171	16.03.03.03.01	SR NOTE	Deleted NOTE.	Consistent with position that only 2 channels of Type A Functions as defined in Regulatory Guide 1.97, Revision 4, and further identified in the ESBWR DCD or supporting documentation will be required PAM instrumentation in the Technical Specifications. Therefore, the Table is deleted since the listing of Type A PAM Functions will be defined elsewhere in the ESBWR licensing basis.
172	16.03.03.03.01	Table 3.3.3.1-1	Deleted Table 3.3.3.1-1.	Consistent with position that only 2 channels of Type A Functions as defined in Regulatory Guide 1.97, Revision 4, and further identified in the ESBWR DCD or supporting documentation will be required PAM instrumentation in the Technical Specifications. Therefore, the Table is deleted since the listing of Type A PAM Functions will be defined elsewhere in the ESBWR licensing basis. This is similar to the treatment of Remote Shutdown System Instrumentation in DCD Tier 2, Chapter 16, Specification 3.3.3.2.
173	16.03.03.04.01	LCO b	Revised LCO to remove credit for gaseous channel of the drywell fission product monitoring system. LCO revised to read "Particulate channel of the drywell fission product monitoring system."	RAI 6.2-1
174	16.03.03.04.01	ACTIONS NOTE	Deleted Note for LCO 3.0.4.c applicable.	RAI 6.2-8
175	16.03.03.04.01	ACTIONS B	Revised Condition B for consistency with change to LCO removing credit for gaseous channel of the drywell fission product monitoring system. Condition is now specific to particulate channel.	RAI 6.2-1
176	16.03.03.04.01	ACTIONS C	Revised Required Action C.1 Note for consistency with change to LCO removing credit for gaseous channel of the drywell fission product monitoring system. Note is now specific to particulate channel.	RAI 6.2-1
177	16.03.03.04.01	ACTIONS D	Revised Condition D and Required Action D.1 for consistency with change to LCO removing credit for gaseous channel of the drywell fission product monitoring system. Condition and Required Action are now specific to particulate channel.	RAI 6.2-1

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Item	Section	Subsection	Description of Change	Brief Reason for Change
178	16.03.03.04.01	SR 3.3.4.1.1	Revised Channel Check to be specific to particulate channel for consistency with change to LCO removing credit for gaseous channel of the drywell fission product monitoring system. SR is now specific to particulate channel.	RAI 6.2-1
179	16.03.03.05.01	LCO	Revised from four channels to three channels and tied required channels to required electrical systems.	N-2 Design Change
180	16.03.03.05.01	ACTIONS A	Revised Condition A to refer to "required" channel. Deleted Action to place channel in bypass and replaced with Action to restore channel to operable status. Removed brackets surrounding "12" hour Completion Time.	N-2 Design Change and NEDO-33201
181	16.03.03.05.01	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
182	16.03.03.05.01	ACTIONS C	Renumbered as Condition B. Removed bracket surrounding the "1" hour Completion Time.	Editorial and N-2 Design Change and NEDO-33201
183	16.03.03.05.01	ACTIONS D	Renumbered as Condition C.	Editorial
184	16.03.03.05.01	SR 3.3.5.1.1	SR revised to refer to "each required channel."	N-2 Design Change
185	16.03.03.05.01	SR 3.3.5.1.1	Frequency revised to remove square brackets.	PRA Topical is expected to provide evaluation supporting this Frequency.
186	16.03.03.05.01	SR 3.3.5.1.2	SR revised to refer to "each required channel."	N-2 Design Change
187	16.03.03.05.01	SR 3.3.5.1.2	Frequency revised to remove square brackets.	PRA Topical is expected to provide evaluation supporting this Frequency.
188	16.03.03.05.01	SR 3.3.5.1.3	SR revised to refer to "each required channel."	N-2 Design Change
189	16.03.03.05.01	SR 3.3.5.1.3	SR revised to require Channel Calibration to be consistent with Specification 5.5.11, Setpoint Control Program.	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
190	16.03.03.05.01	SR 3.3.5.1.4	SR revised to refer to "each required channel."	N-2 Design Change
191	16.03.03.05.01	SR 3.3.5.1.4	SR revised to clarify that Staggered Test Basis is based on 4 channels.	N-2 Design Change
192	16.03.03.05.01	T 3.3.5.1-1	Last column of table revised from "Allowable Values" to "Setting Basis."	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
193	16.03.03.05.01	T 3.3.5.1-1 Function 1	Deleted Function 1 "Reactor Vessel Water Level - Low, Level 1.5 and renumbered subsequent Functions.	Initiation on this parameter deleted in DCD 7.3, Rev 2

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Item	Section	Subsection	Description of Change	Brief Reason for Change
194	16.03.03.05.01	T 3.3.5.1-1 Function 2	Renumbered as Function 1. Deleted brackets surrounding Analytical/Design Limit and inserted value of 11.50 m (452.8 in).	Editorial and RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
195	16.03.03.05.01	T 3.3.5.1-1 Function 3	Renumbered as Function 2. Deleted brackets surrounding Analytical/Design Limit and inserted value of 8.45 m (332.7 in).	Editorial and RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
196	16.03.03.05.01	T 3.3.5.1-1 Function 4	Deleted Function 4 "Drywell Pressure – High.	Initiation on this parameter deleted in DCD 7.3, Rev 2
197	16.03.03.05.01	T 3.3.5.1-1 Function 5	Deleted Function 5 "Initiation Timer - Reactor Vessel Water Level - Low, Level 1.5.	Initiation on this parameter deleted in DCD 7.3, Rev 2
198	16.03.03.05.01	T 3.3.5.1-1 Function 6	Deleted Function 6 "ECCS Initial Start Timer.	RAI 16.2-97 - Revised Spec Bases to incorporate timers in actuation logic as Response Time Test.
199	16.03.03.05.01	T 3.3.5.1-1 Function a	Revised footnote by deleting square brackets associated with water level.	Consistent with level specified in TS 3.5.3 and TS 3.9.6
200	16.03.03.05.02	LCO	Revised from four divisions to three divisions and tied required divisions to required electrical systems.	N-2 Design Change
201	16.03.03.05.02	ACTIONS A	Revised Condition to refer to "one required actuation division inoperable," and revised Completion Time from [14 days] to 12 hours.	N-2 Design Change
202	16.03.03.05.02	ACTIONS B	Revised Condition to refer to "two or more required actuation divisions inoperable."	N-2 Design Change
203	16.03.03.05.02	ACTIONS B.1	Removed brackets surrounding Completion Time.	PRA Topical is expected to provide evaluation supporting this Frequency.
204	16.03.03.05.02	SR 3.3.5.2.1	Revised SR to refer to "each required division."	N-2 Design Change
205	16.03.03.05.02	SR 3.3.5.2.1	Revised Frequency to clarify that Staggered Test Basis is based on four divisions.	Clarification consistent with intent of SR, as described in the Bases.
206	16.03.03.05.02	SR 3.3.5.2.2	Added ECCS Response Time Test every 24 months on a Staggered Test Basis for four divisions.	RAI 16.2-97 - Added ECCS Response Time Test to ensure all portions of ECCS circuitry are adequately tested.
207	16.03.03.05.02	T 3.3.5.2-1	Added "Gravity-Driven Cooling System (GDCS) Equalizing Lines" as Function 3. Renumbered existing Function 3 "Standby Liquid Control (SLC)" as Function 4.	Equalizing lines inadvertently omitted in Rev 1. DCD 7.3 discusses actuation of equalizing lines as part of ECCS.
208	16.03.03.05.03	LCO	Revised from four channels to three channels and tied required channels to required electrical systems.	N-2 Design Change

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Item	Section	Subsection	Description of Change	Brief Reason for Change
209	16.03.03.05.03	ACTIONS A	Revised Condition A to refer to "required" channel. Deleted Action to place channel in bypass and removed brackets surrounding "12" hour Completion Time to place channel in trip.	N-2 Design Change and NEDO-33201
210	16.03.03.05.03	ACTIONS A	Revised "Place" instrumentation division in trip" to "Verify."	ICS design does not include allowance for operator to place a division in trip.
211	16.03.03.05.03	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
212	16.03.03.05.03	ACTIONS C	Renumbered as Condition B.	Editorial
213	16.03.03.05.03	ACTIONS D	Renumbered as Condition C.	Editorial
214	16.03.03.05.03	SR 3.3.5.3.1	SR revised to refer to "each required channel."	N-2 Design Change
215	16.03.03.05.03	SR 3.3.5.3.1	Frequency revised to remove square brackets.	PRA Topical is expected to provide evaluation supporting this Frequency.
216	16.03.03.05.03	SR 3.3.5.3.2	SR revised to refer to "each required channel."	N-2 Design Change
217	16.03.03.05.03	SR 3.3.5.3.2	Frequency revised to remove square brackets.	PRA Topical is expected to provide evaluation supporting this Frequency.
218	16.03.03.05.03	SR 3.3.5.3.3	SR revised to refer to "each required channel."	N-2 Design Change
219	16.03.03.05.03	SR 3.3.5.3.3	SR revised to require Channel Calibration to be consistent with Specification 5.5.11, Setpoint Control Program.	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
220	16.03.03.05.03	SR 3.3.5.3.4	SR revised to refer to "each required channel," and deleted "SYSTEM" from "ICS SYSTEM RESPONSE TIME TEST."	N-2 Design Change and editorial
221	16.03.03.05.03	SR 3.3.5.3.4	SR revised to clarify that Staggered Test Basis is based on 4 channels.	N-2 Design Change
222	16.03.03.05.03	T 3.3.5.3-1	Last column of table revised from "Allowable Values" to "Setting Basis."	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
223	16.03.03.05.03	T 3.3.5.3-1 Function 1	Deleted brackets surrounding Analytical/Design Limit and inserted value of 7.447 MPaG (1080 psig).	Editorial and RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD 5.4.6.2.3
224	16.03.03.05.03	T 3.3.5.3-1 Function 2	Deleted brackets surrounding Analytical/Design Limit, inserted value of 16.05 m (631.9 in), and reversed inequality.	RAI 16.2-25 - ESBWR incorporation of TSTF-493, DCD Table 15.2-1, and consistency with other DCD presentations.
225	16.03.03.05.03	T 3.3.5.3-1 Function 3	Revised Function from "Reactor Vessel Water Level - Low, Level 1.5" to "Reactor Vessel Water Level - Low, Level 1."	Consistency with DCD 5.4.6.2.3, Rev 2.

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Item	Section	Subsection	Description of Change	Brief Reason for Change
226	16.03.03.05.03	T 3.3.5.3-1 Function 3	Deleted brackets surrounding Analytical/Design Limit, inserted value of 11.50 m (452.8 in), and reversed inequality.	RAI 16.2-25 - ESBWR incorporation of TSTF-493, DCD Table 15.2-1, and consistency with other DCD presentations.
227	16.03.03.05.03	T 3.3.5.3-1 Function 4	Deleted brackets surrounding Analytical/Design Limit, and reversed inequality.	RAI 16.2-25 - ESBWR incorporation of TSTF-493, DCD 5.4.6.2.3, and consistency with other DCD presentations.
228	16.03.03.05.03	T 3.3.5.3-1 Function 5	Deleted Function 5 "Initiation Timer - Reactor Vessel Water Level - Low, Level 2.	Addressed all timers by description in 3.3.5.3.3 Bases. Timers reside in actuation channels. Included in 3.3.5.3.4 as part of ICS Response Time test.
229	16.03.03.05.03	T 3.3.5.3-1 Function 6	Renumbered as Function 5. Replaced square brackets surrounding analytical limit with curly brackets, and reversed inequality.	Editorial and RAI 16.0-2, RAI 16.2-25 - ESBWR incorporation of TSTF-493, and consistency with other DCD presentations.
230	16.03.03.05.04	LCO	Revised from four divisions to three divisions and tied required divisions to required electrical systems.	N-2 Design Change
231	16.03.03.05.04	ACTIONS A	Revised Condition A to refer to "required" channel. Revised Completion Time to require restoration within 12 hours.	N-2 Design Change and NEDO-33201
232	16.03.03.05.04	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
233	16.03.03.05.04	ACTIONS C	Renumbered as Condition B.	Editorial
234	16.03.03.05.04	ACTIONS D	Renumbered as Condition C.	Editorial
235	16.03.03.05.04	SR 3.3.5.4.1	SR revised to refer to "each required division."	N-2 Design Change
236	16.03.03.05.04	SR 3.3.5.4.1	Revised Frequency to clarify that Staggered Test Basis is based on four divisions.	N-2 Design Change.
237	16.03.03.05.04	SR 3.3.5.4.2	Added ICS Response Time Test every 24 months on a Staggered Test Basis for four divisions.	RAI 16.2-97 - Added ICS Response Time Test to ensure all portions of ICS circuitry are adequately tested.
238	16.03.03.06.01	LCO	Revised from four channels to three channels and tied required channels to required electrical systems.	N-2 Design Change
239	16.03.03.06.01	ACTIONS A	Revised Condition A to refer to "required" channel. Revised Completion Time to require restoration within 12 hours.	N-2 Design Change and NEDO-33201
240	16.03.03.06.01	ACTIONS A	Revised "Place" instrumentation division in trip" to "Verify."	MSIV Isolation design does not include allowance for operator to place a division in trip.

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Item	Section	Subsection	Description of Change	Brief Reason for Change
241	16.03.03.06.01	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
242	16.03.03.06.01	ACTIONS C	Renumbered as Condition B.	Editorial
243	16.03.03.06.01	ACTIONS D	Renumbered as Condition C.	Editorial
244	16.03.03.06.01	ACTIONS E	Renumbered as Condition D.	Editorial
245	16.03.03.06.01	ACTIONS F	Renumbered as Condition E. Replaced Required Action to require isolation of MSLs and MODE 3 with action declaring associated MSIV(s) inoperable immediately.	Editorial and RAI 16.0-7
246	16.03.03.06.01	SR 3.3.6.1.1	Removed square brackets surrounding Frequency.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
247	16.03.03.06.01	SR 3.3.6.1.1	SR revised to refer to "each required channel."	N-2 Design Change
248	16.03.03.06.01	SR 3.3.6.1.2	SR revised to refer to "each required channel."	N-2 Design Change
249	16.03.03.06.01	SR 3.3.6.1.2	Removed square brackets surrounding Frequency.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
250	16.03.03.06.01	SR 3.3.6.1.3	SR revised to refer to "each required channel."	N-2 Design Change
251	16.03.03.06.01	SR 3.3.6.1.3	SR revised to require Channel Calibration to be consistent with Specification 5.5.11, Setpoint Control Program.	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
252	16.03.03.06.01	SR 3.3.6.1.4	SR revised to refer to "each required channel."	N-2 Design Change
253	16.03.03.06.01	SR 3.3.6.1.4	SR revised to clarify that Staggered Test Basis is based on 4 channels.	N-2 Design Change
254	16.03.03.06.01	T 3.3.6.1-1	Conditions Referenced from Required Action C.1 column revised to reflect changes in Condition renumbering with exception of Function 12.	Editorial
255	16.03.03.06.01	T 3.3.6.1-1	Last column of table revised from "Allowable Values" to "Setting Basis."	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
256	16.03.03.06.01	T 3.3.6.1-1 Function 1	Removed Brackets and revised value for analytical limit to 16.05 m (631.9 in).	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
257	16.03.03.06.01	T 3.3.6.1-1 Function 2	Removed Brackets and revised value for analytical limit to 11.50 m (452.8 in).	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
258	16.03.03.06.01	T 3.3.6.1-1 Function 3	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
259	16.03.03.06.01	T 3.3.6.1-1 Function 4	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493

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Item	Section	Subsection	Description of Change	Brief Reason for Change
260	16.03.03.06.01	T 3.3.6.1-1 Function 5	Revised Function name from "Condenser Vacuum - Low" to "Condenser Pressure – High.	DCD Rev 2 Table 7.3-5
261	16.03.03.06.01	T 3.3.6.1-1 Function 5	Revised engineering units from "in Hg vacuum" to MPaG and psig." Replaced square brackets with curly brackets.	DCD Rev 2 Table 7.3-5 and RAI 16.0-2
262	16.03.03.06.01	T 3.3.6.1-1 Function 6	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
263	16.03.03.06.01	T 3.3.6.1-1 Function 7	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
264	16.03.03.06.01	T 3.3.6.1-1 Function a	Replaced square brackets surrounding footnote with curly brackets.	RAI 16.0-2
265	16.03.03.06.02	LCO	Revised from four divisions to three divisions and tied required divisions to required electrical systems.	N-2 Design Change
266	16.03.03.06.02	ACTIONS A	Revised Condition A to refer to "required" channel. Deleted Action to place channel in bypass and removed brackets surrounding "12" hour Completion Time to place channel in trip.	N-2 Design Change and NEDO-33201
267	16.03.03.06.02	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
268	16.03.03.06.02	ACTIONS C	Renumbered as Condition B and deleted brackets surrounding Completion Time.	Editorial and NEDO-33201
269	16.03.03.06.02	ACTIONS D	Renumbered as Condition C. Replaced Required Action to require isolation of MSLs and MODE 3 with action declaring associated MSIV(s) inoperable immediately.	Editorial and RAI 16.0-7
270	16.03.03.06.02	SR 3.3.6.2.1	SR revised to refer to "each required division."	N-2 Design Change
271	16.03.03.06.02	SR 3.3.6.2.1	Revised Frequency to clarify that Staggered Test Basis is based four divisions.	N-2 Design Change
272	16.03.03.06.02	SR 3.3.6.2.2	Added Isolation System Response Time Test every 24 months on a Staggered Test Basis for four divisions.	RAI 16.2-97 - Added ECCS Response Time Test to ensure all portions of Isolation circuitry are adequately tested.
273	16.03.03.06.03	LCO	Revised from four channels to three channels and tied required channels to required electrical systems.	N-2 Design Change
274	16.03.03.06.03	ACTIONS A	Revised Condition A to refer to "required" channel. Deleted Action to bypass channel. Removed brackets surrounding 12 hour Completion Time.	N-2 Design Change and NEDO-33201

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Item	Section	Subsection	Description of Change	Brief Reason for Change
275	16.03.03.06.03	ACTIONS A	Revised "Place" instrumentation division in trip" to "Verify."	Isolation design does not include allowance for operator to place a division in trip.
276	16.03.03.06.03	ACTIONS B	Deleted Condition B. Renumbered subsequent Conditions and Required Actions.	N-2 Design Change
277	16.03.03.06.03	ACTIONS C	Renumbered as Condition B. Removed brackets surrounding 1 hour Completion Time.	Editorial and NEDO-33201
278	16.03.03.06.03	ACTIONS D	Renumbered as Condition C.	Editorial
279	16.03.03.06.03	ACTIONS E	Renumbered as Condition D.	Editorial
280	16.03.03.06.03	ACTIONS F	Renumbered as Condition E. Replaced Required Action to be in MODE 3 within 12 hours with action declaring associated CIV(s) inoperable immediately.	Editorial and RAI 16.0-7
281	16.03.03.06.03	SR 3.3.6.3.1	SR revised to refer to "each required channel."	N-2 Design Change
282	16.03.03.06.03	SR 3.3.6.3.1	Removed square brackets surrounding Frequency.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
283	16.03.03.06.03	SR 3.3.6.3.2	SR revised to refer to "each required channel."	N-2 Design Change
284	16.03.03.06.03	SR 3.3.6.3.2	Removed square brackets surrounding Frequency.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
285	16.03.03.06.03	SR 3.3.6.3.3	SR revised to refer to "each required channel."	N-2 Design Change
286	16.03.03.06.03	SR 3.3.6.3.3	SR revised to require Channel Calibration to be consistent with Specification 5.5.11, Setpoint Control Program.	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
287	16.03.03.06.03	SR 3.3.6.3.4	SR revised to refer to "each required channel."	N-2 Design Change
288	16.03.03.06.03	SR 3.3.6.3.4	SR revised to clarify that Staggered Test Basis is based on 4 channels.	N-2 Design Change
289	16.03.03.06.03	T 3.3.6.3-1	Last column of table revised from "Allowable Values" to "Setting Basis."	RAI 16.2-25 - ESBWR incorporation of TSTF-493.
290	16.03.03.06.03	T 3.3.6.3-1 Function 01	Removed Brackets and revised value for analytical limit to 16.05 m (631.9 in).	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
291	16.03.03.06.03	T 3.3.6.3-1 Function 02	Removed Brackets and revised value for analytical limit to 11.50 m (452.8 in).	RAI 16.2-25 - ESBWR incorporation of TSTF-493 and DCD Table 15.2-1.
292	16.03.03.06.03	T 3.3.6.3-1 Function 03	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
293	16.03.03.06.03	T 3.3.6.3-1 Function 04	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493

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Item	Section	Subsection	Description of Change	Brief Reason for Change
294	16.03.03.06.03	T 3.3.6.3-1 Function 05	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
295	16.03.03.06.03	T 3.3.6.3-1 Function 06	Revised engineering units from "in Hg vacuum" to MPaG and psig." Replaced square brackets with curly brackets.	DCD Rev 2 Table 7.3-5 and RAI 16.0-2
296	16.03.03.06.03	T 3.3.6.3-1 Function 06	Revised Function name from "Condenser Vacuum - Low" to "Condenser Pressure – High.	DCD Rev 2 Table 7.3-5
297	16.03.03.06.03	T 3.3.6.3-1 Function 07	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
298	16.03.03.06.03	T 3.3.6.3-1 Function 08	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
299	16.03.03.06.03	T 3.3.6.3-1 Function 09	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
300	16.03.03.06.03	T 3.3.6.3-1 Function 09	Deleted reference to timer in analytical limit.	Timers are associated with Actuation circuitry
301	16.03.03.06.03	T 3.3.6.3-1 Function 09	Revised engineering units from L/s and gpm to mass flow rate (kg/s and lbm/s).	DCD Section 7.4.3.2.2 states that density compensated mass flow is measured.
302	16.03.03.06.03	T 3.3.6.3-1 Function 10	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
303	16.03.03.06.03	T 3.3.6.3-1 Function 11	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
304	16.03.03.06.03	T 3.3.6.3-1 Function 11	Revised Function name from "Isolation Condenser Condensate Line Flow - High" to "Isolation Condenser Condensate Return Line Flow - High."	Consistency with DCD 5.2.5.2.1
305	16.03.03.06.03	T 3.3.6.3-1 Function 12	Replaced square brackets surrounding analytical limit with curly brackets.	RAI 16.0-2 and RAI 16.2-25 - ESBWR incorporation of TSTF-493
306	16.03.03.06.03	T 3.3.6.3-1 Function 13	Deleted Function.	Evaluation performed for response to RAI 16.0-1 determined that this Function did not meet criteria for inclusion in TS.
307	16.03.03.06.03	T 3.3.6.3-1 Function 14	Deleted Function.	Evaluation performed for response to RAI 16.0-1 determined that this Function did not meet criteria for inclusion in TS.
308	16.03.03.06.04	LCO	Removed brackets surrounding LCO. Revised from four divisions to three divisions and tied required divisions to required electrical systems.	N-2 Design Change
309	16.03.03.06.04	ACTIONS NOTE	Removed brackets surrounding Actions Note allowing separate condition entry for each function.	N-2 Design Change

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Item	Section	Subsection	Description of Change	Brief Reason for Change
310	16.03.03.06.04	ACTIONS A	Removed Brackets surrounding Condition A. Revised Condition A to refer to "required" division. Removed brackets surrounding 12 hour Completion Time.	N-2 Design Change and NEDO-33201
311	16.03.03.06.04	ACTIONS A.1	Revised "Place" actuation division in trip" to "Verify."	Isolation design does not include allowance for operator to place a division in trip.
312	16.03.03.06.04	ACTIONS B	Removed Brackets surrounding Condition B. Removed brackets surrounding 1 hour Completion Time.	N-2 Design Change and NEDO-33201
313	16.03.03.06.04	ACTIONS D	Replaced Required Action to be in MODE 3 with action declaring associated CIV(s) inoperable immediately.	RAI 16.0-7
314	16.03.03.06.04	SR 3.3.6.4.1	SR revised to refer to "each required division."	N-2 Design Change
315	16.03.03.06.04	SR 3.3.6.4.1	Removed square brackets surrounding Frequency.	PRA Topical is expected to provide evaluation supporting Completion Times and Frequencies.
316	16.03.03.06.04	SR 3.3.6.4.1	SR revised to clarify that Staggered Test Basis is based on four divisions.	N-2 Design Change
317	16.03.03.06.04	SR 3.3.6.4.2	Added Isolation System Response Time Test every 24 months on a Staggered Test Basis for four divisions.	Added Isolation Response Time Test to ensure all portions of Isolation circuitry are adequately tested.
318	16.03.03.06.04	T 3.3.6.4-1	Added Chilled Water Cooling System, Process Radiation Monitoring System, and High Pressure Nitrogen Gas Supply System as Functions 11, 12, and 13, respectively.	DCD Chapter 6 Rev 2
319	16.03.03.07.01	LCO	Revised from four channels to three channels and tied required channels to required electrical divisions.	N-2 Design Change
320	16.03.03.07.01	ACTIONS A	Revised CONDITION to refer to "required" channel, deleted REQUIRED ACTION to place instrumentation division in bypass, removed square brackets from "[12]" hour COMPLETION TIME, and revised "Place" instrumentation division in trip to "Verify" instrumentation division in trip.	N-2 Design Change, PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies, and EBAS instrumentation design does not include allowance to place a division in trip
321	16.03.03.07.01	ACTIONS B	Deleted, and renumbered subsequent CONDITIONS and REQUIRED ACTIONS.	N-2 Design Change
322	16.03.03.07.01	ACTIONS C	Renumbered as CONDITION B and REQUIRED ACTION B.1, and removed bracket surrounding the "[1]" hour COMPLETION TIME.	Editorial change and N-2 Design Change
323	16.03.03.07.01	ACTIONS D	Renumbered as CONDITION C and REQUIRED ACTION C.1.1, C.1.2, and C.2.	Editorial change

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Item	Section	Subsection	Description of Change	Brief Reason for Change
324	16.03.03.07.01	SR NOTE	In Note, replaced "Sensor" with "Instrumentation."	Editorial change for consistency with similar Notes
325	16.03.03.07.01	SR 3.3.7.1.1	Added phrase "on each required channel" to SURVEILLANCE.	N-2 Design Change
326	16.03.03.07.01	SR 3.3.7.1.1	Removed square brackets from "[24 hours]" FREQUENCY.	PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies
327	16.03.03.07.01	SR 3.3.7.1.2	Added phrase "on each required channel" to SURVEILLANCE.	N-2 Design Change
328	16.03.03.07.01	SR 3.3.7.1.2	Removed square brackets from "[184 days]" FREQUENCY.	PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies
329	16.03.03.07.01	SR 3.3.7.1.2	Added phrases "on each required channel" and "consistent with Specification 5.5.11, "Setpoint Control Program (SCP)" to SURVEILLANCE.	N-2 Design Change, and RAI 16.2-25 (TSTF-493, MFN 06-431)
330	16.03.03.07.01	Table 3.3.7.1-1	Replaced column heading "ALLOWABLE VALUE" to "SETTING BASIS."	RAI 16.2-25 (TSTF-493, MFN 06-431)
331	16.03.03.07.01	Table 3.3.7.1-1	Revised brackets from square brackets to curly brackets in two places.	RAI 16.0-2 (MFN 06-431)
332	16.03.03.07.01	Table 3.3.7.1-1	Replaced Function 2 with three new Functions.	Technical changes for consistency with DCD Chapter 9, Revision 2
333	16.03.03.07.02	LCO	Revised from four channels to three channels and tied required channels to required electrical divisions.	N-2 Design Change
334	16.03.03.07.02	APPLICABILITY	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
335	16.03.03.07.02	ACTIONS	Deleted Note that allowed separate CONDITION entry for each Function.	Only one Function is applicable for EBAS
336	16.03.03.07.02	ACTIONS A	Revised CONDITION to refer to "required" channel, and replaced bracketed "[14]" days COMPLETION TIME with "12 hours."	N-2 Design Change, and PRA Topical is expected to provide evaluation supporting Completion Times/Frequencies
337	16.03.03.07.02	ACTIONS B	Deleted, and renumbered subsequent CONDITIONS and REQUIRED ACTIONS.	N-2 Design Change
338	16.03.03.07.02	ACTIONS C	Renumbered as CONDITION B and REQUIRED ACTION B.1, and removed bracket surrounding the "[1]" hour COMPLETION TIME.	Editorial change and N-2 Design Change
339	16.03.03.07.02	ACTIONS D	Renumbered as CONDITION C and REQUIRED ACTION C.1.1, C.1.2, and C.2.	Editorial change

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Item	Section	Subsection	Description of Change	Brief Reason for Change
340	16.03.03.07.02	SR 3.3.7.2.1	Removed square brackets surrounding SURVEILLANCE and FREQUENCY, added phrase "on each required division" to SURVEILLANCE, and added phrase "for four divisions" to FREQUENCY.	N-2 Design Change
341	16.03.04.01	LCO	Revised LCO from "safety function" to "safety mode."	SRVs have two defined modes of operation, each of which provides a Safety Function. Use of the term "safety function" in the LCO is confusing, leading one to believe that all Safety Functions are required to be Operable for the SRV to be Operable. Terminology is consistent with Bases discussions.
342	16.03.04.01	LCO	Revised LCO from requiring 18 SRVs to be Operable to requiring 4 SRVs to be Operable.	RAI 16.2-34
343	16.03.04.01	ACTIONS A	Revised Condition and Required Actions to refer to "required" SRV.	RAI 16.2-34
344	16.03.04.01	ACTIONS B	Removed brackets surrounding Required Action B.2 and associated Completion Time. Split into Condition B for Condition A not met and Condition C for 2 or more required SRVs not operable.	RAI 16.0-7 and 16.2-34 responses.
345	16.03.04.01	SR 3.4.1.1	Revised SR to refer to "required" SRVs and relocated table of SRV settings to Bases.	Overpressure analysis assumes any three SRVs will stop overpressure at the SRV setpoint. Any four of the 18 SRVs with any mixture of setpoints is adequate. Limits are determined in accordance with ASME requirements and setpoints are provided in DCD.
346	16.03.04.01	SR 3.4.1.1	Replaced square brackets surrounding "0.8%" with curly brackets.	RAI 16.0-2
347	16.03.04.02	ACTIONS B	Removed brackets surrounding Required Action B.2 and associated Completion Time.	Discussions with NRC on June 7, 2006, related to end states. Brackets removed consistent with NUREG-1434. RAI 16-0-2
348	16.03.04.03	ACTIONS B	Removed brackets surrounding "148,000 Bq/gm (4.0 μ Ci/gm)."	Editorial. Consistency with Condition A.
349	16.03.04.04	LCO	Removed brackets surrounding "the PTLR."	RAIs 5.3-6, 5.3-7, and 5.3-8 (MFN 06-128) and RAI 5.3-13 (MFN 06-152)
350	16.03.04.04	ACTIONS B	Removed brackets surrounding Required Action B.2 and associated Completion Time.	Discussions with NRC on June 7, 2006, related to end states. Brackets removed consistent with NUREG-1434.

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Item	Section	Subsection	Description of Change	Brief Reason for Change
351				
352	16.03.04.04	SR 3.4.4.1	Removed brackets surrounding "the PTLR."	RAIs 5.3-6, 5.3-7, and 5.3-8 (MFN 06-128) and RAI 5.3-13 (MFN 06-152)
353	16.03.04.04	SR 3.4.4.2	Removed brackets surrounding "the PTLR."	RAIs 5.3-6, 5.3-7, and 5.3-8 (MFN 06-128) and RAI 5.3-13 (MFN 06-152)
354	16.03.04.04	SR 3.4.4.3	Removed brackets surrounding "the PTLR."	RAIs 5.3-6, 5.3-7, and 5.3-8 (MFN 06-128) and RAI 5.3-13 (MFN 06-152)
355	16.03.04.04	SR 3.4.4.4	Removed brackets surrounding "the PTLR."	RAIs 5.3-6, 5.3-7, and 5.3-8 (MFN 06-128) and RAI 5.3-13 (MFN 06-152)
356	16.03.04.04	SR 3.4.4.4	Revised Brackets surrounding "26.7°C (80°F)" in Note from square brackets to curly brackets.	RAI 16.0-2
357	16.03.04.04	SR 3.4.4.5	Removed brackets surrounding "the PTLR."	RAIs 5.3-6, 5.3-7, and 5.3-8 (MFN 06-128) and RAI 5.3-13 (MFN 06-152)
358	16.03.04.04	SR 3.4.4.5	Revised Brackets surrounding "37.8°C (100°F)" in Note from square brackets to curly brackets.	RAI 16.0-2
359	16.03.04.05	LCO	Removed brackets and revised value to ≤ 7.07 MPaG (1025 psig).	DCD Subsection 5.2.2.3.2 provides values in absolute pressure. Converted to gauge pressure and rounded down.
360	16.03.04.05	SR 3.4.5.1	Removed brackets and revised value to ≤ 7.07 MPaG (1025 psig).	DCD Subsection 5.2.2.3.2 provides values in absolute pressure. Converted to gauge pressure and rounded down.
361	16.03.05.01	ACTIONS	Mode 3 end state will not be used for LCO 3.5.1 per RAI 16.0-7. Added RA E.2.	RAI 16.0-7 (MFN 06-431)
362	16.03.05.01	ACTIONS	Changed [] to { } for RA and Completion Times associated with ECCS N-2 Analysis.	GE to resolve prior to Certification. (RAI 16.0-2)
363	16.03.05.01	SR 3.5.1.1	Removed brackets from SR 3.5.1.1.	Validated from DCD 9.3 and Table 9.3-8.
364	16.03.05.01	SR 3.5.1.2	Deleted SR 3.5.1.2 for ADS valve lineup verification. Re-numbered subsequent SRs.	ESBWR ADS does not have valves in the flow path that require verification
365	16.03.05.01	SR 3.5.1.5	Description of Change: Changed [] to { } for RCS pressures in SR Note.	GE to resolve prior to Certification. (RAI 16.0-2)
366	16.03.05.02	ACTIONS	Mode 3 end state will not be used for LCO 3.5.2 per RAI 16.0-7. Added RA E.2.	RAI 16.0-7 (MFN 06-431)
367	16.03.05.02	ACTIONS	Changed [] to { } for Analysis, RAs and Completion Times associated with ECCS N-2 Analysis.	GE to resolve prior to Certification. (RAI 16.0-2)

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Item	Section	Subsection	Description of Change	Brief Reason for Change
368	16.03.05.02	SR 3.5.2.1	Revised water level in GDSCS pools.	Updated value from DCD Revision 2, Table 6.3-2.
369	16.03.05.02	SR 3.5.2.2	Deleted SR 3.5.2.2 for GDSCS valve lineup verification. Re-numbered subsequent SRs.	ESBWR GDSCS does not have valves in the flow path that require verification
370	16.03.05.03	ALL	Changed [] to { } for LCO, RA and SR requirements.	GE to resolve prior to Certification. (RAI 16.0-2)
371	16.03.05.03	LCO	Revised per RAI 16.2-39.	RAI 16.2-39 (MFN 06-431)
372	16.03.05.03	APPLICABILITY	Corrected significant digits to 23.0 feet per RAI 16.2-64.	RAI 16.2-64 (MFN 06-431)
373	16.03.05.03	ACTIONS	Brackets removed from all Completion Times.	Revise Bases to indicate Completion Time will be justified by NEDO-33201, "ESBWR Design Certification Probabilistic Risk Assessment, will be revised to justify CTs."
374	16.03.05.03	SR 3.5.3.1	Revised per RAI 16.2-39.	RAI 16.2-39 (MFN 06-431)
375	16.03.05.03	SR 3.5.3.2	Deleted SR 3.5.3.2 for GDSCS valve lineup verification. Re-numbered subsequent SRs.	ESBWR GDSCS does not have valves in the flow path that require verification
376	16.03.05.04	ACTIONS	Changed [] to { } for RA and Completion Times associated with ECCS N-2 Analysis.	GE to resolve prior to Certification. (RAI 16.0-2)
377	16.03.05.04	SR 3.5.4.1	Removed brackets from SR 3.5.4.1 for periodic valve lineup.	Review of P&ID indicated that criteria for lineup are met.
378	16.03.05.04	SR 3.5.4.2	Removed brackets from SR 3.5.4.2 for HPNSS requirements.	DCD Table 6.2-1
379	16.03.05.05	APPLICABILITY	Revised applicability per RAI 16.2-74.	RAI 16.2-74
380	16.03.05.05	SR 3.5.5.1	Removed brackets from SR 3.5.5.1 for periodic valve lineup.	Review of P&ID indicated that criteria for lineup are met.
381	16.03.05.05	SR 3.5.5.2	Removed brackets from SR 3.5.5.2 for HPNSS requirements and corrected typo (I.e., 161 psig changed to 164 psig).	DCD Table 6.2-1
382	16.03.06.01.02	ACTIONS A.3	Required Action has been revised to incorporate a Note allowing air lock doors in high radiation areas to be verified locked closed by administrative means.	RAI 16.2-44
383	16.03.06.01.02	ACTIONS B.3	Required Action has been revised to incorporate a Note allowing air lock doors in high radiation areas to be verified locked closed by administrative means.	RAI 16.2-44

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Item	Section	Subsection	Description of Change	Brief Reason for Change
384	16.03.06.01.03	ACTIONS D	Revised brackets in Condition D and associated Completion Times from square brackets to curly brackets. Deleted one extraneous bracket in 72 hour Completion Time.	RAI 16.0-2 and editorial
385	16.03.06.01.03	ACTIONS F	Added Condition F requiring MODE 3 in 12 hours and MODE 5 in 36 hours if Condition B is not met. Deleted reference to Condition B in Condition E.	RAI 16.0-7
386	16.03.06.01.03	SR 3.6.1.3.10	Revised brackets surrounding SR 3.6.1.3.10 from square brackets to curly brackets.	RAI 16.0-2
387	16.03.06.01.03	SR 3.6.1.3.8	Revised brackets in SR 3.6.1.3.8 from square brackets to curly brackets.	RAI 16.0-2
388	16.03.06.01.03	SR 3.6.1.3.9	Revised brackets surrounding SR 3.6.1.3.9 from square brackets to curly brackets.	RAI 16.0-2
389	16.03.06.01.04	LCO	Revised brackets surrounding "8.96 kPa gauge (1.3 psig)" from square brackets to curly brackets.	RAI 16.0-2
390	16.03.06.01.05	LCO	Revised brackets surrounding "46.1°C (115°F)" from square brackets to curly brackets.	RAI 16.0-2
391	16.03.06.01.06	LCO	Revised LCO to refer to vacuum breaker "flow paths" to allow incorporation of isolation valves and isolation function.	RAIs 16.2-48 & 16.2-49
392	16.03.06.01.06	ACTIONS A	Revised Condition A to include actions for one isolation valve not open. Revised Required Action A.1 to refer to vacuum breaker "flow path." Revised Completion time from 72 hours to 7 days for Required Action A.1.	RAIs 16.2-48 & 16.2-49
393	16.03.06.01.06	ACTIONS B	Revised Condition B to include actions for one flow path isolation function inoperable. Revised Completion Time for Required Action B.1 from 4 hours to 8 hours.	RAIs 16.2-48 & 16.2-49
394	16.03.06.01.06	ACTIONS C	Revised Condition C by deleting Condition for two vacuum breakers inoperable and revised second Condition (now the only Condition) to refer to Required Actions and associated Completion Times of "Condition A or B."	RAIs 16.2-48 & 16.2-49
395	16.03.06.01.06	ACTIONS D	Added Condition D to provide actions if the vacuum breaker is not closed and the associated isolation function is inoperable.	RAIs 16.2-48 & 16.2-49

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Item	Section	Subsection	Description of Change	Brief Reason for Change
396	16.03.06.01.06	ACTIONS E	Added Condition E to provide Required Actions if two vacuum breaker flow paths are inoperable (formerly provided in Condition C).	RAIs 16.2-48 & 16.2-49
397	16.03.06.01.06	ACTIONS F	Added Condition F to provide Required Actions in the event safety function is lost.	RAIs 16.2-48 & 16.2-49
398	16.03.06.01.06	SR 3.6.1.6.3	Revised SR 3.6.1.1.3 to require verification of vacuum breaker lift force as the acceptance criteria for freedom of movement.	RAIs 16.2-48 & 16.2-49
399	16.03.06.01.06	SR 3.6.1.6.4	Added SR 3.6.1.6.4 to require CHANNEL CALIBRATION of each vacuum breaker flow path isolation function.	RAIs 16.2-48 & 16.2-49
400	16.03.06.01.06	SR 3.6.1.6.5	Added SR 3.6.1.6.5 to require a system functional test of the isolation function.	RAIs 16.2-48 & 16.2-49
401	16.03.06.01.07	ACTIONS	Mode 3 end state will not be used for LCO 3.6.1.7 per RAI 16.0-7. Added RA B.2.	RAI 16.0-7 (MFN 06-431)
402	16.03.06.01.07	ACTIONS	Deleted Conditions A thru D that provided a tiered approach to PCCS loop inoperability. Added new Condition A.	Tiered approach not necessary because no known mechanism to make PCC loop inoperable.
403	16.03.06.02.01	ACTIONS D.2	Deleted brackets for pool temperature.	DCD Table 6.2-2
404	16.03.06.02.01	ACTIONS D.3	Revised RA D.3 per RAI 16.0-3.	RAI 16.0-3 (MFN 06-431)
405	16.03.06.02.01	ACTIONS E.2	Deleted brackets for Completion Time.	Consistent with LCO 3.0.3
406	16.03.06.02.02	APPLICABILITY	Changed [] to { } for extended applicability.	GE to resolve prior to Certification. (RAI 16.0-2)
407	16.03.06.02.02	ACTIONS	Mode 3 end state will not be used for LCO 3.6.2.2 per RAI 16.0-7.	RAI 16.0-7 (MFN 06-431)
408	16.03.07.01	ALL	Re-numbered LCO from 3.7.5 to 3.7.1.	Editorial
409	16.03.07.01	ALL	Changed 'equipment' pool to 'dryer/separator' pool.	Consistent with RAI 9.1-22 and DCD Chaps 6 and 9, R2
410	16.03.07.01	SR 3.7.1.2	Removed brackets from dryer/separator pool level	RAI 9.1-22 (MF 06-309)
411	16.03.07.01	SR 3.7.1.5	Added bracketed Note identical to SR 3.7.1.4	Engineering judgment
412	16.03.07.01	SRs	Changed brackets from [] to { } for SR 3.7.1.2 Note, SR 3.7.1.4 Note, and SR 3.7.1.5.	GE to resolve prior to Certification. (RAI 16.0-2)
413	16.03.07.02	ALL	Specification was renumbered from 3.7.1 to 3.7.2.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1.

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Item	Section	Subsection	Description of Change	Brief Reason for Change
414	16.03.07.02	APPLICABILITY	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
415	16.03.07.02	ACTIONS D	Revised brackets from square brackets to curly brackets in two places.	RAI 16.0-2 (MFN 06-431)
416	16.03.07.02	ACTIONS F	Revised brackets from square brackets to curly brackets in two places.	RAI 16.0-2 (MFN 06-431)
417	16.03.07.02	SR 3.7.2.1	Revised brackets from square brackets to curly brackets in two places.	RAI 16.0-2 (MFN 06-431)
418	16.03.07.02	SR 3.7.2.3	Replaced "isolation" with "actuation."	RAI 16.2-51 (MFN 06-431)
419	16.03.07.03	ALL	Specification was renumbered from 3.7.2 to 3.7.3.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1.
420	16.03.07.04	ALL	Specification was renumbered from 3.7.3 to 3.7.4.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1.
421	16.03.07.04	APPLICABILITY	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
422	16.03.07.04	ACTIONS B.1	Revised brackets from square brackets to curly brackets in one place.	RAI 16.0-2 (MFN 06-431)
423	16.03.07.05	ALL	Specification was renumbered from B 3.7.4 to B 3.7.5.	Specifications rearranged to match numbering sequence in NUREG-1434, Revision 3.1.
424	16.03.07.05	LCO	Revised English unit value significant digits.	RAI 16.2-64 (MFN 06-431)
425	16.03.07.05	SR 3.7.5.1	Revised English unit value significant digits.	RAI 16.2-64 (MFN 06-431)
426	16.03.08.01	ALL	Changed [] to { } for all bracketed items.	GE to resolve prior to Certification. (RAI 16.0-2)
427	16.03.08.01	ALL	Major re-write to reflect N-2 design change and LCO that requires only 3 of 4 division operable.	N-2 Design Change
428	16.03.08.01	ACTIONS	Revised Completion Times to be appropriate for N-2 design change as described in response to RAI 16.2-82.	RAI 16.2-82
429	16.03.08.01	ACTIONS A.3 & B.2	Revised completion times to be appropriate for N-2 design change as described in response to RAI 16.2-82.	N-2 Design Change
430	16.03.08.01	ACTIONS C.2	Removed brackets from [26] hours Completion Time for RA.C.1.	Time to reach Mode 5 consistent with LCO 3.0.3
431	16.03.08.01	SR 3.8.1.2	Minor editorial change to SR 3.8.1.2 and Bases to correct bracket positing per RAI 16.2-84.	RAI 16.2-84

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Item	Section	Subsection	Description of Change	Brief Reason for Change
432	16.03.08.01	SR 3.8.1.4	Deleted SR 3.8.1.4 requirement for periodic Channel Calibration or System Functional Test of the battery chargers per RAI 16.2-84.	RAI 16.2-84
433	16.03.08.02	ALL	Changed [] to { } for all bracketed items.	GE to resolve prior to Certification. (RAI 16.0-2)
434	16.03.08.02	ALL	Deleted LCO 3.8.2, "72 Hour sources -Operating" and re-numbered LCO 3.8.3 through LCO 3.8.8 to reflect change in numbering.	N-2 Design Change
435	16.03.08.02	ALL	Major re-write to reflect N-2 design change and LCO that requires only 3 of 4 division operable.	N-2 Design Change
436	16.03.08.03	ALL	Changed [] to { } for all bracketed items.	GE to resolve prior to Certification. (RAI 16.0-2)
437	16.03.08.03	ALL	Deleted LCO 3.8.2, "72 Hour sources -Operating" and re-numbered LCO 3.8.3 through LCO 3.8.8 to reflect change in numbering.	N-2 Design Change
438	16.03.08.03	ALL	Major re-write to reflect N-2 design change and LCO that requires only 3 of 4 division operable.	N-2 Design Change
439	16.03.08.03	SR 3.8.3.6	Deleted brackets around 80% for required battery capacity.	DCD 8.3.2.1.1, R2
440	16.03.08.04	ALL	Deleted LCO 3.8.2, "72 Hour sources -Operating" and re-numbered LCO 3.8.3 through LCO 3.8.8 to reflect change in numbering.	N-2 Design Change
441	16.03.08.04	ALL	Major re-write to reflect N-2 design change and LCO that requires only 3 of 4 division operable.	N-2 Design Change
442	16.03.08.04	ACTIONS	Mode 3 end state will not be used for LCO 3.5.1 per RAI 16.0-7. Added RA B.2.	RAI 16.0-7 (MFN 06-431)
443	16.03.08.04	ACTIONS	Revised Action and Completion Time to reflect N-2 design change per RAI 16.2-82.	RAI 16.2-82
444	16.03.08.05	ALL	Changed [] to { } for all bracketed items.	GE to resolve prior to Certification. (RAI 16.0-2)
445	16.03.08.05	ALL	Deleted LCO 3.8.2, "72 Hour sources -Operating" and re-numbered LCO 3.8.3 through LCO 3.8.8 to reflect change in numbering.	N-2 Design Change
446	16.03.08.05	ALL	Major re-write to reflect N-2 design change and LCO that requires only 3 of 4 division operable.	N-2 Design Change
447	16.03.08.05	APPLICABILITY, ACTIONS A.2.2	Expanded Applicability to include "During movement of {recently} irradiated fuel..." Included new RA A.2.2.	Consistency with LCO 3.8.2. Requirements are identical.

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Item	Section	Subsection	Description of Change	Brief Reason for Change
448	16.03.08.06	ALL	Deleted LCO 3.8.2, "72 Hour sources -Operating" and re-numbered LCO 3.8.3 through LCO 3.8.8 to reflect change in numbering.	N-2 Design Change
449	16.03.08.06	ALL	Major re-write to reflect N-2 design change and LCO that requires only 3 of 4 division operable.	N-2 Design Change
450	16.03.08.07	ALL	Changed [] to { } for all bracketed items.	GE to resolve prior to Certification. (RAI 16.0-2)
451	16.03.08.07	ALL	Deleted LCO 3.8.2, "72 Hour sources -Operating" and re-numbered LCO 3.8.3 through LCO 3.8.8 to reflect change in numbering.	N-2 Design Change
452	16.03.08.07	APPLICABILITY, ACTIONS A.2.2	Expanded Applicability to include "During movement of {recently} irradiated fuel..." Included new RA A.2.2.	Consistency with LCO 3.8.2. Requirements are identical.
453	16.03.09.05	SR 3.9.5.2	Revised brackets from square brackets to curly brackets in one place, and revised metric unit value significant digits.	RAI 16.0-2 (MFN 06-431), and consistency with English unit value significant digits
454	16.03.09.06	LCO	Revised English unit value significant digits.	RAI 16.2-64 (MFN 06-431)
455	16.03.09.06	SR 3.9.6.1	Revised English unit value significant digits.	RAI 16.2-64 (MFN 06-431)
456	16.03.10.01	LCO	Minor editorial per RAI 16.0-3.	RAI 16.0-3 (MFN 06-431)
457	16.03.10.01	LCO a	Deleted requirement for LCO 3.3.6.3, Functions 13 and 14 because Functions 13 and 14 were deleted from LCO 3.3.6.3.	Evaluation performed for response to RAI 16.0-1 determined that this Function did not meet criteria for inclusion in TS. RB isolates on level
458	16.03.10.01	ACTIONS A.1	Revised Note to RA A.1 per RAI 16.2-65. Note now requires that Mode 5 actions must be completed even if supporting LCO has Mode 3 end state.	RAI 16.2-65
459	16.03.10.03	ALL	Changed [] to { } for all bracketed items.	GE to resolve prior to Certification. (RAI 16.0-2)
460	16.03.10.05	ALL	Changed [] to { } for all bracketed items.	GE to resolve prior to Certification. (RAI 16.0-2)
461	16.03.10.05	LCO	Combined LCO 3.10.5.c and d.	Editorial change to be consistent with NUREG-1434.
462	16.03.10.05	SR 3.10.5.1	Revised SR 3.10.5.1 per RAI 16.2-66. Changed SR Frequency to "According to SR 3.1.1.1."	RAI 16.2-66 (MFN 06-431)
463	16.03.10.08	LCO	Corrected typo in LCO.	Editorial
464	16.03.10.08	LCO f and SR 3.10.8.1	Deleted requirement for LCO 3.3.6.3, Functions 13 and 14 and LCO 3.3.6.4, Function 10, because Functions 13 and 14 were deleted from LCO 3.3.6.3. Added requirement that Reactor Building dampers are isolated because requirement for isolation on Hi Rad deleted.	Evaluation performed for response to RAI 16.0-1 determined that this Function did not meet criteria for inclusion in TS.

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Item	Section	Subsection	Description of Change	Brief Reason for Change
465	16.04	4.3 Fuel Storage	Changed [] to { } to indicate that GE will resolve prior to certification.	GE to resolve prior to Certification. (RAI 16.0-2)
466	16.04	4.3.2	Changed [] to { } and changed location of brackets in anticipation that limit will be based on pool level not elevation.	GE to resolve prior to Certification. (RAI 16.0-2)
467	16.05.01	05.01 NOTE	Removed brackets and deleted option to place organizational position information in the Quality Assurance Plan.	Discussions with applicants determined that a standard location (FSAR) should be used for all ESBWR units.
468	16.05.01	05.01.02 NOTE	Added Reviewer's Note that applicant must supply plant specific titles for individual fulfilling command and control function.	RAI 16.0-2
469	16.05.02	05.02.01.a	Removed brackets and deleted option to place organizational position information in the Quality Assurance Plan.	Discussions with applicants determined that a standard location (FSAR) should be used for all ESBWR units.
470	16.05.02	05.02.02.a	Added Reviewer's Note for two unit sites.	RAI 16.2-67
471	16.05.02	05.02.02.d	Removed brackets and deleted listing of positions performing safety related functions.	The existing listing provides examples. These examples could be misinterpreted to be an all-inclusive list in spite of the "e.g." Rulemaking associated with overtime limits and implementing Regulatory Guides are expected to provide the necessary details.
472	16.05.04	16.05.04 NOTE	Added Reviewer's Note for COL Item guidance.	RAI 16.0-2
473	16.05.05	05.05.01	Revised paragraph numbering.	Numbering resulted in two paragraphs labeled 5.5.1.a and two paragraphs labeled 5.5.1.b. Editorial Change.
474	16.05.05	05.05.06	Revised discussion to delete "[contained in gas storage tanks or]."	ESBWR design does not include gas storage tanks.
475	16.05.05	05.05.06	Removed brackets surrounding "Branch Technical Position (BTP) ETSB 11-5, "Postulated Radioactive Release due to Waste Gas System Leak or Failure."	ETSB 11-5 is referenced in both Table 11.3-3 and 15.0.3.4.7.
476	16.05.05	05.05.06	Added bracketed option for unprotected outdoor liquid radwaste storage tanks and a Reviewer's Note.	RAI 16.2-70 & RAI 16.0-2
477	16.05.05	05.05.06.b	Revised discussion to delete "[contained in gas storage tanks and]," and "[of the tanks' contents]."	ESBWR design does not include gas storage tanks.
478	16.05.05	05.05.06.c	Added surveillance for unprotected outdoor liquid radwaste storage tanks and a Reviewer's Note.	RAI 16.2-71 & RAI 16.0-2

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Item	Section	Subsection	Description of Change	Brief Reason for Change
479	16.05.05	05.05.09	Deleted Options A and A/B from the Primary Containment Leakage Rate Testing program.	Discussions with applicants determined that there was no expectation that a utility building an ESBWR would want the option to perform Appendix J testing using the prescriptive requirements of Option A.
480	16.05.05	05.05.09 Option B a	Removed brackets from the "s" in exception[s].	Two exceptions are listed. Pluralism is correct. Editorial change.
481	16.05.05	05.05.09 Option B a	Added Reviewer's Note requiring applicants to insert additional exceptions to RG 1.163.	RAI 16.0-2
482	16.05.05	05.05.09 Option B d.2.a	Removed brackets surrounding "0.05 La."	Leakage rate limit of 0.05 La is an historical measure of gross leakage for an air lock.
483	16.05.05	05.05.09 Option B d.2.b	Removed brackets surrounding "0.01 La" and revised test pressure to "10 psig."	Leakage rate limit of 0.01 La at a test pressure of 10 psig are historical measures of gross leakage for an air lock.
484	16.05.05	05.05.09.b	Removed brackets and inserted value for Pa for peak containment pressure.	Bounding Case value from DCD Table 6.5-2
485	16.05.05	05.05.10	Replaced square brackets in first paragraph and in item a with curly brackets.	RAI 16.0-2
486	16.05.05	05.05.11	Inserted new "Setpoint Control Program."	New program provides controls for setpoint methodology. ESBWR implementation of TSTF-493 (RAI 16.2-25)
487	16.05.06	05.06.03	Revised titling on page 5.6-3 to show "5.6.3 CORE OPERATING LIMITS REPORT (COLA) (continued)" at top of page above paragraph d.	Editorial Correction.
488	16.05.06	05.06.03.a	Revised listing format.	NEI ITS Writer's Guide
489	16.05.06	05.06.04	Revised titling on page 5.6-3 to show "5.6.4 Reactor Coolant System (RCS) PRESSURE AND TEMPERATURE LIMITS REPORT (PTLR) following paragraph d of 5.6.3 and before paragraph a of 5.6.4. File was repaginated as necessary.	Editorial Correction.
490	16.05.06	05.06.04	Removed brackets surrounding description of PTLR.	RAIs 5.3-6, 5.3-7, and 5.3-8 (MFN 06-128) and RAI 5.3-13 (MFN 06-152)

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Item	Section	Subsection	Description of Change	Brief Reason for Change
491	16.05.06	05.06.04	Deleted item 7 from NRC Reviewer's Note.	These TS are for new plants. These plants will not have been critical prior to issuance of the plant-specific TS. Therefore, a requirement concerning plants that have pulled two or more surveillance capsules is not appropriate.
492	16.05.06	05.06.05	Replaced reference to "Condition B and [F]" with reference to "Condition C."	Editorial - Consistency with revised LCO 3.3.3.1.