Item	Location	Description of Change
1	16B - Various	Global chapter editorial changes to correct misspelling and grammar; spell out or integrate acronyms where appropriate; and update references as needed and where required.
2	16B - Various	Changes made for consistency with DCD Chapter 7 (and other DCD Chapters) for terminology of individual channel actuated devices (i.e., 'initiators'; not 'actuators').
3	16B.00 TOC	Where applicable, updated TOC information consistent with changes to the associated LCOs.
4	16B.02.01.01 References	References updated to latest applicable. Editorial changes made for consistency in presentation of Licensing Topical Reports.
5	16B.03.00.00 SR 3.0.1	Revised the operating reactor pressure for performing scram time testing to allow a range of pressures over which scram time testing can be performed. The previous operating pressure value for testing was above the allowed operating limit of LCO 3.4.5. This operating pressure range for conducting the scram time surveillance is consistent with the BWR/6 Standard Technical Specifications.
6	16B.03.01.01 References	References updated to latest applicable. Editorial changes made for consistency in presentation of Licensing Topical Reports.
7	16B.03.01.03 Actions	Updated reference to SR 3.3.2.1.9 to conform with changes submitted in response to RAI 16.2-145 Supplement 1.
8	16B.03.01.03 References	References updated to latest applicable. Editorial changes made for consistency in presentation of Licensing Topical Reports.
9	16B.03.01.04 SR 3.1.4.1, SR 3.1.4.4	Revised the operating reactor pressure for performing scram time testing to allow a range of pressures over which scram time testing can be performed. The previous operating pressure value for testing was above the allowed operating limit of LCO 3.4.5. This operating pressure range for conducting the scram time surveillance is consistent with the BWR/6 Standard Technical Specifications.
10	16B.03.01.05 Action A.1	Revised terminology in accordance with RAI 16.2-186.
11	16B.03.01.05 References	Revised Reference 4 in accordance with RAI 16.2-185.

Item	Location	Description of Change
12	16B.03.01.05 SR 3.1.5.1	Revised COL Item 3.1.5-1 label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139. Additional administrative changes are included to relocate "start" and "end" brackets so that they more appropriately and consistently delineate the specific information that is to be supplied by COL applicants.
13	16B.03.01.06 Actions	Updated reference to SR 3.3.2.1.9 to conform with changes submitted in response to RAI 16.2-145 Supplement 1.
14	16B.03.01.07 Actions	Deleted Action D in accordance with RAI 16.2-169. Included additional editorial corrections to presentation of brackets.
15	16B.03.01.07 SR 3.1.7.4	Clarified "disable/test" switch consistent with DCD nomenclature changes made in response to RAI 7.1-139.
16	16B.03.01.07 References	Added new References 2 and 3, and renumber existing References 2, 3, and 4 in accordance with RAI 16.2-185.
17	16B.03.02.01, ASA	Revised the Applicable Safety Analyses discussion to state that the LHGR operating limit is power and feedwater temperature dependent and that the LHGR operating limits specified in the COLR include power dependent limits and feedwater temperature dependent limits. See MFN 09-125.
18	16B.03.02.02, Applicability	Revised second paragraph to replace 'greater than five' with 'of three or more.' See response to RAI 16.2-168.
19	16B.03.02.02, ASA	Revised the Applicable Safety Analyses discussion by deleting the existing discussions of power dependency and inserting a statement that the MCPR operating limit is power and feedwater temperature dependent and that the MCPR operating limits specified in the COLR include power dependent limits and feedwater temperature dependent limits. See MFN 09-125.
20	16B.03.02.02, ASA	Revised the Applicable Safety Analyses discussion to add explicit clarification of the impact of feedwater control system in manual mode. See RAI 16.2-33, S02.
21	16B.03.02.02 References	References updated to latest applicable. Editorial changes made for consistency in presentation of Licensing Topical Reports.
22	16B.03.03.01.01, Background	Revised miscellaneous nomenclature consistent with DCD changes made in response to RAI 7.1-139.

Item	Location	Description of Change
23	16B.03.03.01.01, Background	Revised discussion of bypass logic consistent with DCD changes made in response to RAI 7.1-139.
24	16B.03.03.01.01, Background	Revised backup scram nomenclature. See response to RAI 16.2-135, Supplement 1. Subsequently, additional changes to terminology were made consistent with DCD nomenclature changes made in response to RAI 7.1-139.
25	16B.03.03.01.01, Background, ASA	Revised terminology in accordance with RAI 16.2-186.
26	16B.03.03.01.01, Actions	Revised Required Action A.1 to replace excessively conservative Action for DTM to be in trip, which would result in a tripped condition for all instrument Functions from that Division. The revised Action for the instrument channel to be in trip is consistent with design and intent of actions presented in previous DCD Revisions (i.e., DCD Revision 5 inadvertently adopted the overly conservative change). This revised Required Action is also consistent with the Action Condition entered.
27	16B.03.03.01.01, SR 3.3.1.1.1	Revised Frequency from 24 hours to 12 hours. Deleted discussion of overlap with SR 3.3.1.1.1. See response to RAI 16.2-145 Supplement 1.
28	16B.03.03.01.01, SR 3.3.1.1.2	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. Deleted discussion of overlap with SR 3.3.1.2.2 and revised scope of the Channel Functional Test. See response to RAI 16.2-145 Supplement 1.
29	16B.03.03.01.01, SR 3.3.1.1.4	Revised reference to SR 3.3.1.2.4 to a reference to SR 3.3.1.2.2 for consistency with changes to LCO 3.3.1.2. See response to RAI 16.2-145 Supplement 1.
30	16B.03.03.01.02, SR 3.3.1.2.1	Deleted Channel Check for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2- 145 Supplement 1.
31	16B.03.03.01.02, SR 3.3.1.2.2	Deleted Channel Functional Test for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2- 145 Supplement 1.
32	16B.03.03.01.02, SR 3.3.1.2.3	Deleted "Staggered Test Basis" (Surveillance renumbered to SR 3.3.1.2.1) for conformance with NUREG-1434 Standard Technical Specifications.

Item	Location	Description of Change
33	16B.03.03.01.03, SR 3.3.1.3.1	Revised SR 3.3.1.3.1 to apply only to the RPS Manual Scram Function. Revised Frequency from 24 months to 7 days. See response to RAI 16.2-145 Supplement 1.
34	16B.03.03.01.03, SR 3.3.1.3.2	Added new SR 3.3.1.3.2 Channel Functional Test to apply only to the Remote Shutdown Switch - Shutdown Position Function with a Frequency of 24 months. See response to RAI 16.2-145 Supplement 1.
35	16B.03.03.01.04, Background	Revised discussion of SRNM bypass features consistent with DCD changes made in response to RAI 7.1-139.
36	16B.03.03.01.04, Background ASA, LCO, Applicability SR 3.3.1.4.3 SR 3.3.4.1.5	SRNM Neutron Flux - High trip Function 1.b is deleted and the Applicability of the SRNM Neutron Flux - Short Period (renumbered as Function 1.b) is extended to cover MODE 6, with any control rod withdrawn from a core cell containing one or more fuel assemblies. These changes reflect changes made in DCD Chapter 7 to clarify that the design of SRNM Neutron Flux - High trip function is to function solely in non-coincident mode. This trip function does not meet any of the criteria of 10CFR50.36(c)(2)(ii), and consistent with NUREG-1434 this function is removed from Technical Specification control. The SRNM Neutron Flux - Short Period provides the credited for all MODES of operation when control rod(s) are withdrawn.
37	16B.03.03.01.04, Actions	Revised Required Actions A.1 and F.1 to replace excessively conservative Action for DTM to be in trip, which would result in a tripped condition for all instrument Functions from that Division. The revised Action for the instrument channel to be in trip is consistent with design and intent of actions presented in previous DCD Revisions (i.e., DCD Revision 5 inadvertently adopted the overly conservative change). This revised Required Action is also consistent with the Action Condition entered.
38	16B.03.03.01.04 SR 3.3.1.4.4	Revised Frequency for calibration of LPRMs from "1000 MWD/T average core exposure" to "750 MWD/T average core exposure." Revised justification of Surveillance Frequency from "based on operating experience with LPRM sensitivity changes," to read "based on assumptions associated with LPRM sensitivity changes." See response to RAI 7.2-18, Supplement 2.
39	16B.03.03.01.04, SR 3.3.1.4.1	Revised Frequency from 24 hours to 12 hours. Deleted discussion of overlap with SR 3.3.1.5.1. See response to RAI 16.2-145 Supplement 1.

Item	Location	Description of Change
40	16B.03.03.01.04, SR 3.3.1.4.3	Revised Frequency from 24 months to 7 days. Added additional details related to self-diagnostics. Deleted discussion of overlap with SR 3.3.1.5.2 and revised scope of the Channel Functional Test. See response to RAI 16.2-145 Supplement 1.
41	16B.03.03.01.04, SR 3.3.1.4.4	Added new Channel Functional Test with a Frequency of 92 days as SR 3.3.1.4.4 for Applicabilities in MODE 1. Renumbered subsequent SRs. See response to RAI 16.2-145 Supplement 1.
42	16B.03.03.01.05, Actions	Revised Required Action D.1 to replace excessively conservative Action for DTM to be in trip, which would result in a tripped condition for all instrument Functions from that Division. The revised Action for the instrument channel to be in trip is consistent with design and intent of actions presented in previous DCD Revisions (i.e., DCD Revision 5 inadvertently adopted the overly conservative change). This revised Required Action is also consistent with the Action Condition entered.
43	16B.03.03.01.05, SR 3.3.1.5.3	Deleted "Staggered Test Basis" (Surveillance renumbered to SR 3.3.1.5.1) for conformance with NUREG-1434 Standard Technical Specifications.
44	16B.03.03.01.05, SR 3.3.1.5.1	Deleted Channel Check for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2- 145 Supplement 1.
45	16B.03.03.01.05, SR 3.3.1.5.2	Deleted Channel Functional Test for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2- 145 Supplement 1.
46	16B.03.03.01.05, SR 3.3.1.5.4	Revised reference to SR 3.3.1.4.7 to a reference to SR 3.3.1.4.8 for consistency with changes to LCO 3.3.1.4. See response to RAI 16.2-145 Supplement 1.
47	16B.03.03.01.06, SR 3.3.1.6.1	Revised Frequency from 24 hours to 12 hours. See response to RAI 16.2-145 Supplement 1.
48	16B.03.03.01.06, SR 3.3.1.6.3	Added new SR 3.3.1.6.3, 'Channel Check,' with a Frequency of 24 hours for Functions in MODE 3, 4, and 5. Renumbered subsequent SR. See response to RAI 16.2-145 Supplement 1.
49	16B.03.03.01.06, SR 3.3.1.6.4	Revised Frequency from 24 months to 7 days. Added additional details related to self-diagnostics. See response to RAI 16.2-145 Supplement 1.

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Item	Location	Description of Change
50	16B.03.03.01.06, SR 3.3.1.6.6	Added new Channel Functional Test with a Frequency of 31 days as SR 3.3.1.6.6 for Applicabilities in MODE 3, 4, and 5. Renumbered subsequent SR. See response to RAI 16.2-145 Supplement 1.
51	16B.03.03.02.01, SR 3.3.2.1.2	Deleted Channel Check. Renumbered subsequent SRs. See response to RAI 16.2-145 Supplement 1.
52	16B.03.03.02.01, SR 3.3.2.1.2	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. See response to RAI 16.2-145 Supplement 1.
53	16B.03.03.02.01, SR 3.3.2.1.3	Revised Frequencies from 24 months to 92 days. Added additional details related to self-diagnostics. See response to RAI 16.2-145 Supplement 1.
54	16B.03.03.02.01, SR 3.3.2.1.4	Revised Frequencies from 24 months to 92 days. Added additional details related to self-diagnostics. See response to RAI 16.2-145 Supplement 1.
55	16B.03.03.02.01, SR 3.3.2.1.5	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. See response to RAI 16.2-145 Supplement 1.
56	16B.03.03.02.01, Background	Revised third paragraph to replace "the current value within a predefined time," with "a reference feedwater temperature," for consistency with the response to RAI 4.3-32 (MFN 08-883).
57	16B.03.03.02.01 References	Updated reference to SR 3.3.2.1.9 to conform with changes submitted in response to RAI 16.2-145 Supplement 1.
58	16B.03.03.04.01, SR 3.3.4.1.1	Revised Frequency from 24 hours to 12 hours. See response to RAI 16.2-145 Supplement 1.
59	16B.03.03.04.01, SR 3.3.4.1.2	Revised Frequency from 24 months to 31 days. Added additional details related to self-diagnostics. See response to RAI 16.2-145 Supplement 1.
60	16B.03.03.05.01, Background	Revised SSLC/ESF logic description and functional nomenclature consistent with DCD changes made in response to RAI 7.1-139.
61	16B.03.03.05.01, ASA, LCO, Applicability	Added new discussion for Function 3, Drywell Pressure - High. See response to RAI 21.6-103.
62	16B.03.03.05.01, ASA, LCO, Applicability	Revised Function 1 discussion to clarify Level 1 actuation is for both GDCS injection and equalization subsystems. See response to RAI 21.6-103.

### ESBWR DCD Chapter 16B

Item	Location	Description of Change
63	16B.03.03.05.01, ASA, LCO, Applicability	Revised Function 2 discussion to replace "ECCS initial start" with the specific Level 1 actuation signal for clarity. See response to RAI 21.6-103.
64	16B.03.03.05.01, Background	Revised to include Drywell Pressure - High that persists for 60 minutes as a signal that actuates ADS and GDCS-Injection subsystem and does not actuate SLC System or GDCS-Equalize subsystem. See response to RAI 21.6-103.
65	16B.03.03.05.01, SR 3.3.5.1.1	Revised Frequency from 24 hours to 12 hours. Deleted discussion of overlap with SR 3.3.5.2.1. See response to RAI 16.2-145 Supplement 1.
66	16B.03.03.05.01, SR 3.3.5.1.2	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. Deleted discussion of overlap with SR 3.3.5.2.2 and revised scope of the Channel Functional Test. See response to RAI 16.2-145 Supplement 1.
67	16B.03.03.05.01, SR 3.3.5.1.4	Revised reference to SR 3.3.5.2.4 to a reference to SR 3.3.5.2.2 for consistency with changes to LCO 3.3.5.2. See response to RAI 16.2-145 Supplement 1.
68	16B.03.03.05.02, Background ASA, LCO, Applicability SR 3.3.5.2.4	Revised SSLC/ESF functional nomenclature consistent with DCD changes made in response to RAI 7.1-139.
69	16B.03.03.05.02, ASA, LCO, Applicability	Revised Function 1 discussion to include Drywell Pressure - High and the sustained time delay for it and the Level 1 signals. See response to RAI 21.6-103.
70	16B.03.03.05.02, ASA, LCO, Applicability	Revised Function 2 discussion to include Drywell Pressure - High with a time delay as an actuating signal for the Function. See response to RAI 21.6-103.
71	16B.03.03.05.02, ASA, LCO, Applicability	Revised Function 3 discussion to include the sustained time delay portion of the signal. See response to RAI 21.6-103.
72	16B.03.03.05.02, ASA, LCO, Applicability	Revised Function 4 discussion to include the sustained time delay portion of the signal. See response to RAI 21.6-103.
73	16B.03.03.05.02, References	Revised Reference 2 from Section 6.3 to Section 6.2. See response to RAI 21.6-103.

Item	Location	Description of Change
74	16B.03.03.05.02, SR 3.3.5.2.3	Deleted "Staggered Test Basis" (Surveillance renumbered to SR 3.3.5.2.1) for conformance with NUREG-1434 Standard Technical Specifications.
75	16B.03.03.05.02, SR 3.3.5.2.1	Deleted Channel Check for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2- 145 Supplement 1.
76	16B.03.03.05.02, SR 3.3.5.2.2	Deleted Channel Functional Test for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2-145 Supplement 1.
77	16B.03.03.05.03, Background	Revised SSLC/ESF logic description and functional nomenclature consistent with DCD changes made in response to RAI 7.1-139.
78	16B.03.03.05.03, SR 3.3.5.3.1	Revised Frequency from 24 hours to 12 hours. Deleted discussion of overlap with SR 3.3.5.4.1. See response to RAI 16.2-145 Supplement 1.
79	16B.03.03.05.03, SR 3.3.5.3.2	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. Deleted discussion of overlap with SR 3.3.5.4.2 and revised scope of the Channel Functional Test. See response to RAI 16.2-145 Supplement 1.
80	16B.03.03.05.03, SR 3.3.5.3.4	Revised reference to SR 3.3.5.4.4 to a reference to SR 3.3.5.4.2 for consistency with changes to LCO 3.3.5.4. See response to RAI 16.2-145 Supplement 1.
81	16B.03.03.05.04, Background SR 3.3.5.4.4	Revised SSLC/ESF functional nomenclature consistent with DCD changes made in response to RAI 7.1-139.
82	16B.03.03.05.04, SR 3.3.5.4.3	Deleted "Staggered Test Basis" (Surveillance renumbered to SR 3.3.5.4.1) for conformance with NUREG-1434 Standard Technical Specifications.
83	16B.03.03.05.04, SR 3.3.5.4.1	Deleted Channel Check for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2-145 Supplement 1.
84	16B.03.03.05.04, SR 3.3.5.4.2	Deleted Channel Functional Test for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2- 145 Supplement 1.

### **ESBWR DCD Chapter 16B**

Item	Location	Description of Change
85	16B.03.03.06.01, Actions	Revised Required Action A.1 to replace excessively conservative Action for DTM to be in trip, which would result in a tripped condition for all instrument Functions from that Division. The revised Action for the instrument channel to be in trip is consistent with design and intent of actions presented in previous DCD Revisions (i.e., DCD Revision 5 inadvertently adopted the overly conservative change). This revised Required Action is also consistent with the Action Condition entered.
86	16B.03.03.06.01, References	Revised Reference 2 from Section 6.3 to Section 6.2. See response to RAI 21.6-103.
87	16B.03.03.06.01, SR 3.3.6.1.1	Revised Frequency from 24 hours to 12 hours. Deleted discussion of overlap with SR 3.3.6.2.1. See response to RAI 16.2-145 Supplement 1.
88	16B.03.03.06.01, SR 3.3.6.1.2	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. Deleted discussion of overlap with SR 3.3.6.2.2 and revised scope of the Channel Functional Test. See response to RAI 16.2-145 Supplement 1.
89	16B.03.03.06.01, SR 3.3.6.1.4	Revised reference to SR 3.3 6.2.4 to a reference to SR 3.3.6.2.2 for consistency with changes to LCO 3.3.6.2. See response to RAI 16.2-145 Supplement 1.
90	16B.03.03.06.02, References	Revised Reference 1 from Section 6.3 to Section 6.2. See response to RAI 21.6-103.
91	16B.03.03.06.02, SR 3.3.6.2.3	Deleted "Staggered Test Basis" (Surveillance renumbered to SR 3.3.6.2.1) for conformance with NUREG-1434 Standard Technical Specifications.
92	16B.03.03.06.02, SR 3.3.6.2.1	Deleted Channel Check for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2-145 Supplement 1.
93	16B.03.03.06.02, SR 3.3.6.2.2	Deleted Channel Functional Test for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2- 145 Supplement 1.
94	16B.03.03.06.03, Background	Revised SSLC/ESF logic description and functional nomenclature consistent with DCD changes made in response to RAI 7.1-139.
95	16B.03.03.06.03, ASA, LCO, Applicability	Added new discussion for Function 13, Drywell Pressure - High-High. See response to RAI 21.6-103.

# ESBWR DCD Chapter 16B

Item	Location	Description of Change
96	16B.03.03.06.03, ASA, LCO, Applicability	Added new discussion for Function 14, Gravity-Driven Cooling System Pool Water Level - Low. See response to RAI 21.6-103.
97	16B.03.03.06.03, ASA, LCO, Applicability	Added new fourth paragraph discussing the HP CRD isolation signals. See response to RAI 21.6-103.
98	16B.03.03.06.03, ASA, LCO, Applicability	Deleted 4th sentence of Function 1 to eliminate erroneous discussion of "isolation of the feedwater lines" associated with Level 2. See response to RI 21.6-103.
99	16B.03.03.06.03, ASA, LCO, Applicability	Editorial revision to delete "implicitly," with respect to assumptions in the analyses. See response to RAI 21.6-103.
100	16B.03.03.06.03, ASA, LCO, Applicability	Revised last paragraph of Function 11 discussion to add a sentence that "This Function, in conjunction with Drywell Water level - High, also isolates the high pressure makeup water injection line." See response to RAI 21.6-103.
101	16B.03.03.06.03, ASA, LCO, Applicability	Revised last paragraph of Function 3 discussion to add a sentence that "This Function, in conjunction with Drywell Water level - High, also isolates the high pressure makeup water injection line." See response to RAI 21.6-103.
102	16B.03.03.06.03, ASA, LCO, Applicability	Revised last sentence of Function 12 to replace "GDCS initiation" with "feedwater line isolation" as an editorial correction. See response to RI 21.6-103.
103	16B.03.03.06.03, Background	Revised description of the feedwater isolation function on page B 3.3.6.3-4 by adding new bullet for Drywell Pressure - High-High. See response to RAI 21.6-103.
104	16B.03.03.06.03, Background	Revised to include HP CRD isolation functions and associated signals. See response to RAI 21.6-103.
105	16B.03.03.06.03, References	Revised Reference 1 from Section 6.3 to Section 6.2. See response to RAI 21.6-103.
106	16B.03.03.06.03, SR 3.3.6.3.2	Revised Frequency from 24 hours to 12 hours. Deleted discussion of overlap with SR 3.3.6.4.1. See response to RAI 16.2-145 Supplement 1.
107	16B.03.03.06.03, SR 3.3.6.3.2	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. Deleted discussion of overlap with SR 3.3.6.4.2 and revised scope of the Channel Functional Test. See response to RAI 16.2-145 Supplement 1.

Item	Location	Description of Change
108	16B.03.03.06.03, SR 3.3.6.3.4	Revised reference to SR 3.3.6.4.4 to a reference to SR 3.3.6.4.3 for consistency with changes to LCO 3.3.6.4. See response to RAI 16.2-145 Supplement 1.
109	16B.03.03.06.04, Background SR 3.3.6.4.4	Revised SSLC/ESF functional nomenclature consistent with DCD changes made in response to RAI 7.1-139.
110	16B.03.03.06.04, ASA, LCO, Applicability	Added discussion of the HP CRD isolation signals. See response to RAI 21.6-103.
111	16B.03.03.06.04, ASA, LCO, Applicability	Added new discussion for Function 11, High Pressure Makeup Water Injection - Isolation Function. See response to RAI 21.6-103.
112	16B.03.03.06.04, ASA, LCO, Applicability	Editorial revision to delete "implicitly," with respect to assumptions in the analyses. See response to RAI 21.6-103.
113	16B.03.03.06.04, ASA, LCO, Applicability	Revised first paragraph of Function 10 discussion to include Drywell Pressure - High-High as an actuation signal. See response to RAI 21.6-103.
114	16B.03.03.06.04, Background	Revised to add discussion of the HP CRD isolation function. See response to RAI 21.6-103.
115	16B.03.03.06.04, References	Revised Reference 1 from Section 6.3 to Section 6.2. See response to RAI 21.6-103.
116	16B.03.03.06.04, SR 3.3.6.4.3	Deleted "Staggered Test Basis" (Surveillance renumbered to SR 3.3.6.4.1) for conformance with NUREG-1434 Standard Technical Specifications.
117	16B.03.03.06.04, SR 3.3.6.4.5	Revised the system functional test description to include the HP CRD isolation valves. See response to RAI 21.6-103.
118	16B.03.03.06.04, SR 3.3.6.4.1	Deleted Channel Check for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2-145 Supplement 1.
119	16B.03.03.06.04, SR 3.3.6.4.2	Deleted Channel Functional Test for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2-145 Supplement 1.
120	16B.03.03.06.04, SR 3.3.6.4.5	Revised reference to SR 3.3.6.4.3 to a reference to SR 3.3.6.4.1 for consistency with deletion of SR 3.3.6.4.1 and SR 3.3.6.4.2. See response to RAI 16.2-145 Supplement 1.

Item	Location	Description of Change
121	16B.03.03.07.01, Background	Revised SSLC/ESF logic description and functional nomenclature consistent with DCD changes made in response to RAI 7.1-139.
122	16B.03.03.07.01, Actions	Added new Required Action B.1 Bases, and renumbered B.1.1, B.1.2, and B.2 to C.1.1, C.1.2 and C.2.
123	16B.03.03.07.01, Actions	Added new Required Action D.1 and associated Bases.
124	16B.03.03.07.01, ASA, LCO, Applicability	Added new Function 3, "EFU Discharge Flow – Low (primary train)." This Function provides appropriate automatic standby train initiation signals in the event of a single failure of the primary train.
125	16B.03.03.07.01, ASA, LCO, Applicability	Added new Function 4, "EFU Outlet Radiation – High-High (primary train)." This Function provides appropriate automatic standby train initiation signals in the event of a single failure of the primary train.
126	16B.03.03.07.01, ASA, LCO, Applicability	Changed Function 1 "High" to "High-High." This was done to more accurately reflect the design. Reference DCD Table 11.5-2.
127	16B.03.03.07.01, ASA, LCO, Applicability	Deleted "radioactivity entering the control room" and replaced with "exceeding the 10 CFR 50 Appendix A GDC 19 requirements" for consistency with DCD 7.3.4.2 (as revised in RAI 7.1-139)
128	16B.03.03.07.01, ASA, LCO, Applicability	Deleted two paragraphs (Functions 1 and 2) discussing applicable Modes (applicable Modes is now discussed earlier in the section – see Change List Item 13).
129	16B.03.03.07.01, ASA, LCO, Applicability	Removed references to "per train" in Functions 1 and 2. These Functions affect both trains.
130	16B.03.03.07.01, ASA, LCO, Applicability	Corrected Function 1 to reflect that design includes only a single fresh air intake consistent with DCD Figure 9.4-2.
131	16B.03.03.07.01, ASA, LCO, Applicability	Replaced existing reference to Table 3.3.7.1-1 to determine applicable Modes with 2 paragraphs describing the applicable Modes.
132	16B.03.03.07.01, Background	Deleted "These nonsafety-related" and replaced with "Selected N-DCIS" for consistency with DCD 7.3.4.2 (as modified in RAI 7.1-139).

Item	Location	Description of Change
133	16B.03.03.07.01, Background	Inserted "and restroom exhaust" to more accurately reflect the design consistent with DCD 9.4.1.2.
134	16B.03.03.07.01, Background	Inserted "EFU outlet high radiation or" and made "fan" plural. These changes were made to more accurately reflect the design consistent with DCD 9.4.1.2.
135	16B.03.03.07.01, Background	Replaced "normal" with "primary" to be consistent throughout the Bases.
136	16B.03.03.07.01, SR 3.3.7.1.1	Revised Frequency from 24 hours to 12 hours. Deleted discussion of overlap with SR 3.3.7.2.1. See response to RAI 16.2-145 Supplement 1.
137	16B.03.03.07.01, SR 3.3.7.1.2	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. Deleted discussion of overlap with SR 3.3.7.2.2 and revised scope of the Channel Functional Test. See response to RAI 16.2-145 Supplement 1.
138	16B.03.03.07.01, SR 3.3.7.1.4	Revised reference to SR 3.3.7.2.4 to a reference to SR 3.3.7.2.2 for consistency with changes to LCO 3.3.7.2. See response to RAI 16.2-145 Supplement 1.
139	16B.03.03.07.02, Background ASA, LCO, Applicability SR 3.3.7.2.4	Revised SSLC/ESF functional nomenclature consistent with DCD changes made in response to RAI 7.1-139.
140	16B.03.03.07.02, Actions	Added discussion of new Required Action B.1.3 based on addition of Functions (TS 3.3.7.1) that require ability to initiate standby train.
141	16B.03.03.07.02, SR 3.3.7.2.3	Deleted "Staggered Test Basis" (Surveillance renumbered to SR 3.3.7.2.1) for conformance with NUREG-1434 Standard Technical Specifications.
142	16B.03.03.07.02, SR 3.3.7.2.1	Deleted Channel Check for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2-145 Supplement 1.
143	16B.03.03.07.02, SR 3.3.7.2.2	Deleted Channel Functional Test for actuation circuitry. Renumbered subsequent SRs. See response to RAI 16.2- 145 Supplement 1.
144	16B.03.03.08.01, SR 3.3.8.1.1	Revised Frequency from 24 hours to 12 hours. See response to RAI 16.2-145 Supplement 1.

Item	Location	Description of Change
145	16B.03.03.08.01, SR 3.3.8.1.2	Revised Frequency from 24 months to 92 days. Added additional details related to self-diagnostics. See response to RAI 16.2-145 Supplement 1.
146	16B.03.03.08.01 Background ASA, LCO, Applicability	Added Drywell Pressure – High (Manual Actuation) Functions 1.b and 2.b for consistency with design changes reflected in DCD Chapter 7. These changes are associated with, and in addition to, the design changes presented in response to RAI 21.6-103.
147	16B.03.04.01 References	Revised and add citations to References in accordance with RAI 16.2-185.
148	16B.03.04.04 Background, 2 <sup>nd</sup> paragraph	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-A in accordance with MFN 09-139.
149	16B.03.04.04 LCO	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-A in accordance with MFN 09-139.
150	16B.03.04.04 SR 3.4.4.3, SR 3.4.4.4, and SR 3.4.4.5	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-A in accordance with MFN 09-139.
151	16B.03.04.04, References	Added COL item label to reference Table 16.0-1-A for Reference 6 in accordance with MFN 09-139.
152	16B.03.05.01 Actions	Revised Actions for inoperable DPS actuators in accordance with RAI 16.2-174.
153	16B.03.05.01 SR 3.5.1.2	Clarified "disable/test" switch consistent with DCD nomenclature changes made in response to RAI 7.1-139.
154	16B.03.05.02 Actions	Revised Actions for inoperable DPS actuators in accordance with RAI 16.2-174.
155	16B.03.05.02 Background	Revised to add discussion of GDCS pool temperature impact in accordance with RAI 16.2-40, Supplement 2.
156	16B.03.05.02 SR 3.5.2.2	Clarified "disable/test" switch consistent with DCD nomenclature changes made in response to RAI 7.1-139.
157	16B.03.05.03 ASA	Revised number of DPVs from "four" to six" in accordance with RAI 16.2-173.
158	16B.03.05.03 LCO	Clarified LCO in accordance with RAI 16.2-173.

Item	Location	Description of Change
159	16B.03.05.03 SR 3.5.3.1, SR 3.5.3.2, SR 3.5.3.3	Deleted Bases for SR 3.5.3.1, and renumbered SR 3.5.3.2 and SR 3.5.3.3 in accordance with RAI 16.2-173.
160	16B.03.05.03 SR 3.5.3.3, SR 3.5.3.5	Added new Bases for SR 3.5.3.3 and SR 3.5.3.5 in accordance with RAI 16.2-173.
161	16B.03.05.03 SR 3.5.3.4	Revised Bases for SR 3.5.3.4 to add clarification "for each required GDCS valve and for ADS valves required to support relief capacity equivalent to 6 DPVs" in accordance with RAI 16.2-173.
162	16B.03.05.03 SR 3.5.3.4	Clarified "disable/test" switch consistent with DCD nomenclature changes made in response to RAI 7.1-139.
163	16B.03.05.04 SR 3.5.4.3	Clarified "disable/test" switch consistent with DCD nomenclature changes made in response to RAI 7.1-139.
164	16B.03.05.04 References	Revised References 1 and 2, and delete Reference 3 in accordance with RAI 16.2-185.
165	16B.03.05.05 LCO Actions References	Revised in accordance with RAI 16.2-188.
166	16B.03.05.05 SR 3.5.5.3	Clarified "disable/test" switch consistent with DCD nomenclature changes made in response to RAI 7.1-139.
167	16B.03.05.05 References	Revised Reference 1 in accordance with RAI 16.2-185.
168	16B.03.06.01.01 SR 3.6.1.1.5	Revised Frequency in accordance with RAI 6.2-145, Supplement 3.
169	16B.03.06.01.01 ASA	Revised "L <sub>a</sub> " in accordance with response to RAI 6.2-165, Supplement 1.
170	16B.03.06.01.01 Background, ASA, References	References for B3.6.1.1 were renumbered / reordered to reflect order of reference in the Bases text.
171	16B.03.06.01.01 SR 3.6.1.1.1	Updated reference to SR 3.6.1.3.9 to correct the reference to main steam isolation valve leakage Surveillance.
172	16B.03.06.01.03 Actions	Revised Actions for inoperable DPS actuators in accordance with RAI 16.2-174.

Item	Location	Description of Change
173	16B.03.06.01.03 Actions	Revised Completion Times for feedwater CIVs in accordance with RAI 16.2-176.
174	16B.03.06.01.03 Background	Added "and main steamline (MSL) drain isolation valves" in accordance with RAI 16.2-178.
175	16B.03.06.01.03 SR 3.6.1.3.1	Editorial correction to add dual units in first paragraph consistent with presentation in second paragraph.
176	16B.03.06.01.03 SR 3.6.1.3.3	Clarified "disable/test" switch consistent with DCD nomenclature changes made in response to RAI 7.1-139.
177	16B.03.06.01.03 SR 3.6.1.3.10	Made an editorial consistency change in accordance with RAI 16.2-177.
178	16B.03.06.01.03 SR 3.6.1.3.9	Revise the MSIV leak-rate test pressure from "0.5 Pa" to "> Pa" and remove reference to MSIV leakage testing pressure exemption based on RAI 5.4-61.
179	16B.03.06.01.03, References	Reference 4 deleted as part of changes per RAI 5.4-61. Subsequently reinstated as it remained in use elsewhere in this Bases Specification. As such, no change is shown in Revision 6 for Reference 4.
180	16B.03.06.01.04 LCO	Revised drywell pressure value in accordance with RAI 16.2-179.
181	16B.03.06.01.04, LCO	Revised LCO from "This LCO requires that containment drywell pressure be maintained ≤ 110.3 (16.0 psia) during normal operation" to "This LCO requires that containment drywell pressure be maintained ≤ 106.9 kPa (15.5 psia) during normal operation." See response to RAI 21.6-103.
182	16B.03.06.01.06 LCO	Clarified LCO Bases in accordance with RAI 16.2-180.
183	16B.03.06.03.01 Background, ASA	Revised "L <sub>a</sub> " and PCCS leakage limit in accordance with response to RAI 6.2-165, Supplement 1.
184	16B.03.06.03.01 Background	Added "Reference 2" to text for clarification.
185	16B.03.06.03.01 SR 3.6.3.1.3	Clarified "disable/test" switch consistent with DCD nomenclature changes made in response to RAI 7.1-139.
186	16B.03.07.01 Actions	Bases for Action C deleted in accordance with RAI 16.2-182.
187	16B.03.07.01 Actions	Revised Actions for inoperable DPS actuators in accordance with RAI 16.2-174.

Item	Location	Description of Change
188	16B.03.07.01 SR 3.7.1.3	Bases for SR 3.7.1.3 clarified to address "available" IC/PCCS pools in accordance with RAI 16.2-182.
189	16B.03.07.02, Actions	Revised discussions of Actions A.1 and A.2 for consistency with changes to TS 3.7.2 Condition A and Required Actions. Added additional information to justify the 8 hour Completion Time. See the response to RAI 16.2-183.
190	16B.03.07.02, ASA	Removed "or passive" consistent with DCD 15.0.5.
191	16B.03.07.02, Background	Added "and the restroom exhaust duct" since this duct is also isolated on an initiation as described in DCD Section 9.4.1.
192	16B.03.07.02, Background	Changed "nonsafety-related normal air supply duct isolation dampers" to "normal air supply duct and restroom exhaust safety-related isolation dampers" for consistency with the design reflected in DCD Section 6.4.3.
193	16B.03.07.02, Background	Changed "smoke purge discharge duct" to "smoke purge intake duct" to be consistent with DCD Figure 9.4-1.
194	16B.03.07.02, Background	Revised 6 <sup>th</sup> paragraph, last sentence from 'However, if the Recirculation AHUs are not available during the LOPP, safety-related temperature sensors with two-out-of-four logic automatically trip the power to N-DCIS components in the MCR to remove the N-DCIS as a heat load,' to read 'However, if the Recirculation AHUs are not available during the LOPP, safety-related temperature sensors with two-out-of-four logic automatically trip the power to selected N-DCIS components in the MCR to reduce the N-DCIS as a heat load.' See response to RAI 16.2-183.
195	16B.03.07.02, Background	Revised 7 <sup>th</sup> paragraph, 2 <sup>nd</sup> sentence, from 'An actuation signal starts one EFU fan in the EFU that is designated as the primary, opens the associated EFU isolation dampers, closes the nonsafety-related normal air supply duct isolation dampers, and stops the nonsafety-related normal air supply fans,' to "An actuation signal starts one EFU fan in the EFU train that is designated as the primary, opens the associated EFU isolation dampers, closes the nonsafety-related normal air supply duct isolation dampers, and stops the nonsafety-related normal air supply fans.' See response to RAI 16.2-183.

### **ESBWR DCD Chapter 16B**

Item	Location	Description of Change
196	16B.03.07.02, Background Table B3.7.2-1	Revised the resultant limiting CRHA temperature (Background) and the initial temperature assumed (Table B3.7.2-1) in the revised CRHA thermal analyses, consistent with changes to DCD Table 6.4-1 and Appendices in Section 3H.
197	16B.03.07.02, LCO	Revised discussion of CRHA boundary to clarify that the EFU isolation dampers associated with the EFU trains must be closed when the associated EFU fans are not running by adding a new item c and revising item b to exclude the isolation dampers associated with the EFU trains. See the response to RAI 16.2-183.
198	16B.03.07.02, LCO	Revised discussion of CRHAVS train operability by adding a new item c requiring both EFU fan backdraft dampers to be operable. See response to RAI 16.2-183.
199	16B.03.07.02, LCO	Revised discussion of standby EFU fan and associated EFU dampers, under CRHAVS train operability discussion, to clarify that they are not required for CRHAVS train operability. See the response to RAI 16.2-183.
200	16B.03.07.02, References	Added a new Reference 4 'Section 3H,' and renumbered subsequent References. Change in numbering is also reflected in the Bases for SR 3.7.2.7. See response to RAI 16.2-183.
201	16B.03.07.02, SR 3.7.2.1	Revised first sentence by inserting "(Ref. 4)." Added additional information to 1 <sup>st</sup> paragraph to discuss acceptability of using average air temperature to determine heat sink temperature. See the response to RAI 16.2-183.
202	16B.03.07.02, SR 3.7.2.5	Revised first paragraph to insert "selected" in two places with respect to N-DCIS loads that are deenergized on high CRHA temperature. See response to RAI 16.2-183
203	16B.03.08.01 Action A	Revised in accordance with response to RAI 8.3-62. Subsequent to submittal of this RAI response, Bases reference to "design margin" was corrected to "state of charge margin."
204	16B.03.08.01 Actions	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139.
205	16B.03.08.01 Background	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139.
206	16B.03.08.01 References	Revised in accordance with response to RAI 8.3-62.

### **ESBWR DCD Chapter 16B**

Item	Location	Description of Change
207	16B.03.08.01 SR 3.8.1.1	Revised "room" temperature to "average cell" temperature in accordance with RAI 16.2-184.
208	16B.03.08.01 SR 3.8.1.1	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139. Additional administrative changes are included to relocate "start" and "end" brackets so that they more appropriately and consistently delineate the specific information that is to be supplied by COL applicants.
209	16B.03.08.01 SR 3.8.1.2	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139. Additional administrative changes are included to relocate "start" and "end" brackets so that they more appropriately and consistently delineate the specific information that is to be supplied by COL applicants.
210	16B.03.08.01 SR 3.8.1.3	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139.
211	16B.03.08.01 Surveillances	Revised in accordance with response to RAI 8.3-62.
212	16B.03.08.03 Actions	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139.
213	16B.03.08.03 Background	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139. Additional administrative changes are included to relocate "start" and "end" brackets so that they more appropriately and consistently delineate the specific information that is to be supplied by COL applicants.
214	16B.03.08.03 Background, Action D, & SR 3.8.3.4	Revised "room" temperature to "average cell" temperature in accordance with RAI 16.2-184.
215	16B.03.08.03 Background, ASA, Actions, Surveillances	Revised in accordance with response to RAI 8.3-62.

Item	Location	Description of Change
216	16B.03.08.03 SR 3.8.3.1 SR 3.8.3.2, and SR 3.8.3.5	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139. Additional administrative changes are included to relocate "start" and "end" brackets so that they more appropriately and consistently delineate the specific information that is to be supplied by COL applicants. Bracket value made consistent with other occurrences of same value.
217	16B.03.08.03 SR 3.8.3.3	Revised to include a specific established design limit voltage (as a COL Item) in accordance with RAI 16.2-184.
218	16B.03.08.03 SR 3.8.3.3 SR 3.8.3.4, and SR 3.8.3.6	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139.
219	16B.03.08.04, Action A	Deleted discussion of bypass regulating transformer per RAI 8.2-14, Supplement 1 (MFN 08-844).
220	16B.03.08.04, Action A NOTE	Added "required" as an editorial consistency enhancement.
221	16B.03.08.04, Background	Deleted discussion of bypass regulating transformer per RAI 8.2-14, Supplement 1 (MFN 08-844).
222	16B.03.08.05, Action A	Deleted discussion of bypass regulating transformer per RAI 8.2-14, Supplement 1 (MFN 08-844).
223	16B.03.08.06, Action A	Deleted discussion of bypass regulating transformer per RAI 8.2-14, Supplement 1 (MFN 08-844).
224	16B.03.08.06, Background	Clarified Uninterruptible 120 VAC Electrical Fower inverter and bus description consistent with DCD 8.3.1.1.3 and Figure 8.1-4.
225	16B.03.08.06, Background	Deleted discussion of bypass regulating transformer per RAI 8.2-14, Supplement 1 (MFN 08-844).
226	16B.03.09.05 LCO	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139.
227	16B.03.09.05 SR 3.9.5.2	Revised COL Item label to reference Table 16.0-1-A instead of Table 16.0-2-H in accordance with MFN 09-139.
228	16B.03.09.05 SR 3.9.5.2	Revised terminology in accordance with RAI 16.2-186.
229	16B.03.09.06	Revised in accordance with response to RAI 16.2-101, Supplement 1.

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Item	Location	Description of Change
230	16B.03.10.02 Background	Revised terminology in accordance with RAI 16.2-186.
231	16B.03.10.07 LCO, SR 3.10.7.1	Updated reference to SR 3.3.2.1.9 to conform with changes submitted in response to RAI 16.2-145 Supplement 1.
232	16B.03.10.08 Actions	Updated reference to SR 3.3.2.1.9 to conform with changes submitted in response to RAI 16.2-145 Supplement 1.