

**ESBWR DCD Sections 1.1-1.11**  
**26A6642AD Revision 5 to Revision 6 Change List**

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
1.	Entire Chapter	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.	S1.1.2.1	First sentence and last paragraph of DCD Rev 5 section combined to become stand-alone paragraph/subsection. Remainder of DCD Rev 5 section redesignated as S1.2.2.1.1 and modified as described below. Changes per response to RAIs 3.8-79 S03 and 3.8-80 S03.
3.	S1.1.2.1.1, new subsection heading	Added subsection heading "Seismic Category I Standard Plant Structures" per response to RAIs 3.8-79 S03 and 3.8-80 S03.
4.	S1.1.2.1.1, first paragraph, first sentence	Revised sentence introducing bullets to read as follows per response to RAIs 3.8-79 S03 and 3.8-80 S03: "The following Seismic Category I buildings/structures are within the design certification scope for the ESBWR".
5.	S1.1.2.1.1, first paragraph, former 4th to 8th bullets	Bullets deleted for Turbine Building, Radwaste Building, Electrical Building, Service Building and Ancillary Diesel Building in response to RAIs 3.8-79 S03 and 3.8-80 S03.
6.	S1.1.2.1.2, new subsection	Subsection added in response to RAIs 3.8-79 S03 and 3.8-80 S03.
7.	F1.1-1	Figure revised to make outline of electrical building consistent with Figure 1.2-26.
8.	F1.1-3a and 1.1-3b	Figures revised to account for the increased core pressure drop value obtained during testing.

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9.	S1.2.1.5, first bullet	Change text to read as follows for consistency with current design configuration: "The ESBWR requires the following safety-related auxiliary systems and components: Standby Liquid Control (SLC) system, Main Control Room (MCR) Emergency Fan Units (EFUs) and emergency lighting power to supply the Seismic Category I mounted emergency lighting in the MCR and Remote Shutdown System (RSS) rooms."
10.	S1.2.1.5, second bullet	Changed "auxiliary systems" to "nonsafety-related auxiliary systems and components" and changed "lighting" to "normal lighting" for consistency with current design configuration.
11.	S1.2.2.1.1, Reactor Pressure Vessel Internals	Revised first sentence of fifth paragraph to read: "The solid stainless steel core plate is machined to a final configuration with round openings." for consistency with current design configuration.
12.	S1.2.2.1.1, Reactor Pressure Vessel Internals	Revised first sentence of sixth paragraph to read: "The solid stainless steel top guide is machined to a final configuration with square openings." for consistency with current design configuration.
13.	S1.2.2.1.1, Reactor Pressure Vessel Internals	Deleted third sentence of seventh paragraph for consistency with current design configuration.
14.	S1.2.2.1.1, Reactor Pressure Vessel Internals	Changed "shroud or shroud support" to "shroud support structure" in second sentence of 13th paragraph for consistency with current design configuration.
15.	S1.2.2.1.2, Main Steamline Isolation Valves	Deleted "a pneumatic accumulator," from the first paragraph and "and close on loss of pneumatic pressure to the valve" from the second paragraph for consistency with the current MSIV design as described in Section 5.4.5.2.2.
16.	S1.2.2.1.2, Automatic Depressurization System	Inserted new sentence in last paragraph as follows per response to RAI 21.6-103: "To address small break LOCA events that result in reactor water level remaining above the ADS setpoint, ADS will be automatically initiated based on high drywell pressure after a one hour delay."

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17.	S1.2.2.1.2, NBS Instrumentation, Wide Range Water Level	Changed "nearest tap above the top guide" to "taps below the bottom of the active fuel" per a design change that relocated the lower tap location for wide-range level instruments.
18.	S1.2.2.2.2	General editorial update to standardize nomenclature for scram accumulator per response to RAI 16.2-186.
19.	S1.2.2.2.6	Added new second bullet as follows to cover the stable shutdown interval: "achieve subsequent stable shutdown of reactor;"
20.	S1.2.2.2.7	<p>Changed eighth bullet to read as follows per response to RAI 16.2-186:</p> <ul style="list-style-type: none"> <li>• Scram accumulator charging water header pressure – low-low</li> </ul>
21.	S1.2.2.2.11	<p>Added new paragraph to end of section as follows per response to RAI 21.6-103:</p> <p>"Even though they are not subject to the same requirements that are associated with the containment isolation functions of LD&amp;IS, two safety-related process isolation functions have been included within the LD&amp;IS. This was done because LD&amp;IS already has access to most of the necessary parameters for initiating these isolation functions. For certain LOCA events, the main feedwater system and the high pressure CRD system flow need to be isolated to ensure that containment pressure remains within design limits. These isolation functions can be manually bypassed in situations where nonsafety-related containment cooling systems are available to control containment pressure. Additional details are provided in Subsection 7.3.3."</p>
22.	S1.2.2.2.13	Editorial change to standardize nomenclature for ARI valves. The term "air header dump" eliminated in two locations and replaced by ARI at the first location. Changes per response to RAI 16.2-135 S01.

Item	Location	Description of Change
23.	S1.2.2.3.1	General update to Control Room Habitability Area HVAC radiation monitoring description for consistency with other DCD sections.
24.	S1.2.2.4.1, fifth paragraph	Added new sentence as follows per response to RAI 7.1-140: "This water is supplied via ICS pool cross-connect valves that open on a low level condition in either IC/PCCS inner expansion pool."
25.	S1.2.2.4.2, seventh paragraph	Revised second and third sentences to read: "A confirmed low RPV water level signal is the primary means by which the ADS is actuated to reduce RPV pressure. Additional details about of the actuation logic are provided in Section 7.3.1." per response to RAI 21.6-103.
26.	S1.2.2.13.5	Deleted third paragraph from DCD Revision 5 in response to RAI 8.2-14 S01.
27.	S1.2.2.13.8, second paragraph	Replaced "throughout the plant, and particularly" with "in" and inserted "remote shutdown station," in first sentence.
28.	S1.2.2.15.7, Suppression Pool Monitoring	Deleted fourth sentence in first paragraph for consistency with system design as described in Chapter 7.
29.	S1.2.2.16.8, 1st paragraph, 2nd sentence	Changed seismic category classification from "NS" to "II" per response to RAI 3.2-66 S01.
30.	F1.2-1 to F1.2-11	Changes for consistency with several design changes, including changes described in or supporting responses to RAIs 3.8-41 S06, 5.4-61, 12.4-19 S02/S03 and 21.6-103.
31.	F1.2-21 to F1.2-25	Changes for consistency with Section 11.4.2.2.2 and the response to RAI 11.2-16.
32.	F1.2-31	Changes for consistency with relocation of TSC HVAC intake louvers.
33.	T1.3-1, Thermal and Hydraulic	Changed core coolant flow rate values to "34,453 (75.955)" to account for the increased core pressure drop value obtained during testing. These values are the average of the upper and lower core flow values from Figures 1.1-3a and 1.1-3b.

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34.	T1.3-1	Deleted Number of fuel assemblies from Core Assembly section due to it being a duplicate of Number of fuel bundles in Thermal and Hydraulic section of table. Added "and FW temperature" to Method of variation of reactor power in the Reactor Control System listing.
35.	T1.3-3	Changed containment leakage rate from 0.4% to 0.35% per response to RAI 6.2-165 S01.
36.	S1.5.2.1, first paragraph	Added ", 1.5-15 and 1.5-16" per response to RAI 21.6-111 S01.
37.	S1.5.2.1, Scope and Capabilities	Changed "dryers" to "can simulate BWR steam dryers as part of its vessel model" as an editorial clarification in fourth paragraph. Added "to the kinetics model" as an editorial clarification in the fifth paragraph.
38.	S1.5.2.2, Anticipated Operational Occurrences Analysis, 1st para.	Changed "within Section 5.2" to "as described in Section 5.2 and Subsection 15.5.1" for consistency with those locations.
39.	S1.5.2.2, Containment Analysis	Added "as defined in Table 6.2-1" to clarify where containment design limits are provided.
40.	S1.5.3	Due to a restructuring of 10 CFR 52.47 that eliminated the material being referenced here, references to 10 CFR 52.47 were deleted from this section in response to RAI 7.5-8.
41.	S1.5.4, Reference 1.5-1	Added non-proprietary report information as follows: ", and NEDO-32176, Class I (Nonproprietary), Revision 4, January 2008".
42.	S1.5.4, Reference 1.5-2	Deleted "Hitachi" from name of originating organization. Added non-proprietary report information as follows: ", and NEDO-32177, Class I (Non-proprietary), Revision 3, August 2007".
43.	S1.5.4, Reference 1.5-3	Added non-proprietary report information as follows: ", and NEDO-33083-A, Class I (Non-proprietary), October 2005".
44.	S1.5.4, Reference 1.5-4	Changed "Analysis" to "Analyses" in report title to match report cover page.

Item	Location	Description of Change
45.	S1.5.4, Reference 1.5-5	Added "-A" to report numbers to match report cover page.
46.	S1.5.4, Reference 1.5-9	Added "Class II," to the reference listing to match report cover page.
47.	S1.5.4, Reference 1.5-10	Revised title to read: "Simplified Boiling Water Reactor (SBWR) Program – Gravity-Driven Cooling System Integration Systems Test – Final Report" and added "Class II," to make the reference listing match the report cover page.
48.	S1.5.4, Reference 1.5-11	Changed issue date from November 1996 to August 2002 to match the final issued report. The 1996 version was a preliminary issue.
49.	S1.5.4, Reference 1.5-12	Added non-proprietary report information as follows: ", and NEDO-33081, Class I (Non-proprietary), Revision 1, December 2005".
50.	S1.5.4, Reference 1.5-13	Changed "Rev." to "Revision". Added non-proprietary report information as follows: ", and NEDO-32288, Class I (Non-proprietary), Revision 0, December 1995".
51.	S1.5.4, Reference 1.5-14	Changed "Revision 1, January 2006" to "Revision 2, April 2008".
52.	S1.5.4, Reference 1.5-15	Changed "Analysis" to "Analyses" in report title to match report cover page.
53.	S1.5.4, Reference 1.5-16	Added new reference 1.5-16 as follows per response to RAI 21.6-111 S01: GE-Hitachi Nuclear Energy, "TRACG Application for ESBWR Transient Analysis," NEDE-33083P Supplement 3, Class III (GEH Proprietary), Revision 0, December 2007, NEDO-33083 Supplement 3, Class I (Non-proprietary), Revision 0, December 2007.
54.	T1.5-2	Changed "Solid State" to "Digital/Solid State" and added "Operating Plant Upgrades" to the plant list for this item.

Item	Location	Description of Change
55.	T1.6-1	General table update to make report details match cover pages of issued reports and add missing non-proprietary versions that were found. Only report additions, deletions, new revisions and changes to reference locations are summarized below.
56.	T1.6-1, APED-5640	Added "Large" to title.
57.	T1.6-1, GEFR-00879	Deleted this item for consistency with it being deleted from Section 6.3.
58.	T1.6-1 – Deletions	<p>The following LTRs were deleted from Table 1.6-1 for consistency with the rest of the DCD chapters:</p> <ul style="list-style-type: none"> <li>• NEDO-10299A</li> <li>• NEDO-21143-1</li> <li>• NEDO-33288 was deleted per response to RAI 7.1-111.</li> <li>• NEDE-33388P / NEDO-33388 was deleted per response to RAI 7.1-111.</li> </ul>

Item	Location	Description of Change
59.	T1.6-1 – Revised reference locations	<p>The reference locations for the following LTRs were modified as shown below for consistency with the rest of the DCD chapters:</p> <ul style="list-style-type: none"> <li>• NEDE-24011P-A / NEDO-24011-A – Added 3.2, deleted 15.3.</li> <li>• NEDE-33083P Supplement 3 added reference to Section 1.5 per response to RAI 21.6-111 S01.</li> <li>• NEDE-33217P / NEDO-33217 – Deleted 7.1, 18.10 and 18.12.</li> <li>• NEDE-33226P / NEDO-33226 – Added 7B.</li> <li>• NEDC-33239P / NEDO-33239 – Added 4A.</li> <li>• NEDE-33245P / NEDO-33245 – Added 7B.</li> <li>• NEDE-33259P / NEDO-33259 – Deleted 3.9.</li> <li>• NEDE 33295P / NEDO-33295 – Added 7B.</li> <li>• NEDE-33304P / NEDO-33304 – Deleted 7.6, 7.7.</li> <li>• NEDE-33313P / NEDO-33313 – Added 3.9.</li> <li>• NEDO-33338 – Added Chapter 16, Sect. 5.6.3.</li> </ul>



Item	Location	Description of Change
60.	T1.6-1 – Updated Revisions	<p>The revision status for the following LTRs was revised in Table 1.6-1 for consistency with the rest of the DCD chapters and the most recent version available:</p> <ul style="list-style-type: none"> <li>• NEDO-20964 was changed to NEDO-20964-A, dated December 1986.</li> <li>• NEDO-21052 was changed to NEDO-21052-A, dated May 1979.</li> <li>• NEDE-24011P-A / NEDO-24011-A was changed to Revision 16, October 2007.</li> <li>• NEDE-31152P / NEDO-31152 was changed to Revision 9, May 2007.</li> <li>• NEDC-32606P was changed to the August 2002 version.</li> <li>• NEDC-32851P was changed to Revision 5, January 2008.</li> <li>• NEDC-32868P was changed to Revision 3, April 2009.</li> <li>• NEDC-32983P was changed to Revision 1, December 2001.</li> <li>• NEDC-33082P was changed to Revision 2, April 2008.</li> <li>• NEDE-33197P was changed to Revision 2, August 2008.</li> <li>• NEDE-33217P was changed to Revision 5, April 2009.</li> <li>• NEDO-33219 was changed to Revision 3, April 2009.</li> <li>• NEDE-33220P was changed to Revision 3, May 2009.</li> <li>• NEDE-33226P was changed to Revision 4, May 2009.</li> <li>• NEDC-33237P was changed to Revision 4, July 2008.</li> <li>• NEDC-33239P was changed to Revision 4, March 2009.</li> </ul>

Item	Location	Description of Change
		<ul style="list-style-type: none"> <li>• NEDC-33240P was changed to Revision 1, January 2009.</li> <li>• NEDC-33242P was changed to Revision 2, June 2009.</li> <li>• NEDE-33243P was changed to Revision 2, July 2008.</li> <li>• NEDE-33245P was changed to Revision 3, July 2008.</li> <li>• NEDO-33251 was changed to Revision 2 per response to RAI 7.1-131. Issue date is May 2009.</li> <li>• NEDE-33259P was changed to Revision 2, June 2009.</li> <li>• NEDE-33261P was changed to Revision 2, June 2008.</li> <li>• NEDE-33268P was changed to Revision 4, May 2009.</li> <li>• NEDO-33275 was changed to Revision 3, May 2009.</li> <li>• NEDE-33279P was changed to Revision 3, June 2009.</li> <li>• NEDE-33304P was changed to Revision 1, November 2008.</li> <li>• NEDC-33326P was changed to Revision 1, March 2009.</li> <li>• NEDO-33337 was changed to Revision 1, April 2009.</li> <li>• NEDO-33338 was changed to Revision 1, May 2009.</li> <li>• NEDC-33373P was changed to Revision 1, November 2008. NEDO version not yet revised.</li> </ul> <p>NEDC-33374P was changed to Revision 1, December 2008.</p>
61.	T1.6-1, NEDE-11146	Added notation that this report is now considered to be non-proprietary.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
62.	T1.6-1, NEDC-31959P	Changed "Thermal" to "Thermal-Mechanical" in title.
63.	T1.6-1, NEDE-32176P	Added reference to Appendix 6B.
64.	T1.6-1, NEDO-33181	Updated to Revision 6, August 2009. Added 17.4 to referenced locations.
65.	T1.6-1, NEDO-33219	Revised title for consistency with issued report.
66.	T1.6-1, NEDO-33221	Updated to Revision 3, June 2009 for proprietary version.
67.	T1.6-1, NEDE-33226P	Updated to Revision 4, May 2009.
68.	T1.6-1, NEDE-33245P	Updated to Revision 4, July 2009.
69.	T1.6-1, NEDO-33274	Updated to Revision 4, July 2009.
70.	T1.6-1, NEDE-33276P	Updated to Revision 3, July 2009.
71.	T1.6-1, NEDO-33289	Updated to Revision 2, September 2008.
72.	T1.6-1, NEDE-33295P	Updated to Revision 1, July 2009.
73.	T1.6-1, NEDO-33306	Added "Design to title.
74.	T1.6-1, NEDE-33312P	Updated to Revision 1, July 2009.
75.	T1.6-1, NEDE-33313P	Updated to Revision 1, July 2009.
76.	T1.6-1, NEDO-33338	Added reference to Section 1.1.
77.	T1.6-1, NEDC-33373P	Updated to Revision 2, August 2009 for proprietary version.
78.	T1.6-1, NEDC-33374P	Updated to Revision 2, August 2009 for proprietary version.
79.	T1.6-1, NEDE-33391	Updated to Revision 2, July 2009.
80.	T1.6-1, NEDC-33408P	Updated to Revision 1, July 2009.
81.	T1.6-1, NEDO-33411	Updated to Revision 1, July 2009.

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82.	T1.6-1, NEDE-24011P-A-US-16	<p>Added new table entry for NEDE-24011P-A-US / NEDO-24011-A-US as follows as referenced in Section 15.3:</p> <p>Global Nuclear Fuel, “GESTAR II General Electric Standard Application for Reactor Fuel, Supplement for United States,” NEDE-24011-P-A-US, Class III (Proprietary), and NEDO-24011-A-US, Class I (Non-proprietary), latest approved revision.</p> <p>Added "-16" to document number. Changed "latest approved revision" to "Revision 16, October 2007".</p>
83.	T1.6-1, NEDC-32874P	<p>Added new table entry for NEDC-32874P as follows as referenced in Section 4.4:</p> <p>GE Nuclear Energy, “Critical Power and Pressure Drop Tests of Simulated 10x10 Bundle Designs Applicable to GE14,” NEDC-32874P, Class III (Proprietary), March 2000.</p>
84.	T1.6-1, NEDE-33045P	<p>Added new table entry for NEDE-33045P as follows as referenced in Section 9.3:</p> <p>GE Nuclear Energy, “Methods of Estimating Core Damage in BWRs,” NEDC-33045P, Class III (Proprietary), Revision 0, July 2001</p>
85.	T1.6-1, NEDE-33408P	<p>Added new table entry for NEDE-33408P / NEDO-33408 Supplement 1 as follows as referenced in Section 3L:</p> <p>GE Hitachi Nuclear Energy, “ESBWR Steam Dryer – Plant Based Load Evaluation Methodology,” NEDC-33408P Supplement 1, Class III (Proprietary), and NEDO-33408 Supplement 1, Class I (Nonproprietary), October 2008.</p>
86.	T1.6-1, NEDE-33440P	<p>Added new table entry for NEDE-33440P / NEDO-33440 as follows as referenced in Section 6.2:</p> <p>GE Hitachi Nuclear Energy “ESBWR Safety Analysis – Additional Information,” NEDE-33440P, Class III (Proprietary), and NEDO-33440, Class I (Nonproprietary), Revision 1, June 2009.</p>

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87.	T1.6-1, NEDC-33456P	<p>Added new table entry for NEDC-33456P/NEDO-33456 as follows as referenced in Section 4.4 (per response to RAI 4.4-66 S01):</p> <p>Global Nuclear Fuel, “Full-Scale Pressure Drop Testing for a Simulated GE14E Fuel Bundle,” NEDC-33456P, Class III (Proprietary), and NEDO-33456, Class I (Non-proprietary), Revision 0, March 2009.</p>
88.	T1.6-1, NEDE-33512P	<p>Added new table entry for NEDE-33512P as follows as referenced in Section 19D:</p> <p>GE-Hitachi Nuclear Energy, “ESBWR Aircraft Impact Assessment,” NEDE-33512P, to be issued.</p> <p>Deleted this item for consistency with it being deleted from Appendix 19D.</p>
89.	T1.6-1, NEDE-33516P	<p>New entry for “ESBWR Qualification Plan Requirements for a 72-Hour Duty Cycle Battery,” NEDE-33516P, Class III (Proprietary), Revision 0, July 2009, referenced in Section 3.11.</p>
90.	T1.6-1, NEDO-34027-A	<p>Deleted this item for consistency with it being deleted from Appendix 4D.</p>

Item	Location	Description of Change
91.	T1.6-1	<p>Added Tier 2* notation to the following LTRs</p> <ul style="list-style-type: none"> <li>• NEDE-33217P / NEDO-33217</li> <li>• NEDO-33219</li> <li>• NEDE-33220P / NEDO-33220</li> <li>• NEDO-33221</li> <li>• NEDE-33226P / NEDO-33226</li> <li>• NEDC-33237P / NEDO-33237</li> <li>• NEDC-33239P / NEDO-33239</li> <li>• NEDC-33240P / NEDO-33240</li> <li>• NEDC-33242P / NEDO-33242</li> <li>• NEDE-33243P</li> <li>• NEDE-33244P</li> <li>• NEDE-33245P / NEDO-33245</li> <li>• NEDE-33261P / NEDO-33261</li> <li>• NEDO-33262</li> <li>• NEDO-33266</li> <li>• NEDO-33267</li> <li>• NEDE-33268P / NEDO-33268</li> <li>• NEDO-33274</li> <li>• NEDO-33275</li> <li>• NEDE-33276P / NEDO-33276</li> <li>• NEDO-33277</li> <li>• NEDO-33278</li> <li>• NEDE-33295P / NEDO-33295</li> <li>• NEDC-33326P / NEDO-33326</li> <li>• NEDC-33456P / NEDO-33456</li> </ul>
92.	T1.6-2	<p>Added new table entry as follows for consistency with Section 18.5:  BWR Owners' Group Emergency Procedures Committee, "BWR Owners' Group Emergency Procedure and Severe Accident Guidelines," Revision 2, March 2001.</p>
93.	T1.6-2, 7289-545-1-a	<p>Deleted Report No. 7289-545-1-a per response to RAI 7.1-112.</p>

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94.	S1.7.2	Deleted second paragraph containing a COL Holder (licensee) item per agreement with NRC and customers.
95.	S1.7.4	Replaced COL item with "(Deleted)" per agreement with NRC and customers.
96.	T1.7-2	Revised title of Figure 7.1-1 to "Network/Functional Diagram of DCIS" for consistency with figure.
97.	T1.7-2	Deleted line item for Figure 7.1-2 for consistency with its removal from Chapter 7.
98.	T1.7-2	Added "Diagram" to end of title of Figure 7.2-1 for consistency with figure.
99.	T1.7-2	Added "System" to title of Figures 7.7-5 and 7.7-6 for consistency with figures.
100.	T1.7-2	Changed "Triplicate Modular" to "Triple" for consistency with Figure 7.8-4.
101.	T1.7-3	Editorial correction – Changed "7.5.1" to "7.5-1" for consistency with figure number being referenced.
102.	T1.7-3	Editorial correction – Changed "Process" to "Processing" for consistency with Figure 11.2-1 for consistency with figure.
103.	T1.7-3, Fig. 9.4-9 to 9.4-11	Deleted "Reactor Building" from figure titles. Added "(Typical Train A/B)" to titles for Figures 9.4-9 and 9.4-10.
104.	T1.7-3, Fig. 9.4-12	Added "Simplified System Diagram" to title.
105.	T1.8-1, Nuclear Boiler System	Added references to Subsections 5.4.5 and 5.4.9
106.	T1.8-1, Safety-Related DCIS	Changed references from "7.9.1" to "7.1.2, 7.1.3" for consistency.
107.	T1.8-1, Safety System Logic and Control	Changed reference from "7.3.4" to "7.3.5" for consistency.
108.	T1.8-1, Gravity-Driven Cooling System	Changed reference from "6.3.2" to "6.3.2.7" for consistency.

Item	Location	Description of Change
109.	T1.8-1, Main Control Room Panels	Changed references from "18.4" to "7.1.5, 18.1" for consistency.
110.	T1.8-1, MCR Equipment Room Panels	Changed reference from "18.4" to "18.1" for consistency.
111.	T1.8-1	Combined Main Control Room Panels and MCR Equipment Room Panels into a common table row.
112.	T1.8-1, Remote Shutdown System	Removed interfaces with Feedwater System, Main Steam System and DC Power Supply for consistency with current plant design.
113.	T1.8-1, Reactor Water Cleanup/SDC	Removed interfaces with Control Building and DC Power Supply for consistency with current plant design.
114.	T1.8-1, Suppression Pool Temperature Monitoring Subsystem	Removed interface with DC Power Supply for consistency with current plant design.
115.	T1.8-2, Nonsafety-Related DCIS	Changed reference from 7.9.2 to 7.1.4, 7.1.5 for consistency.
116.	S1.9.1	Changed "50.34(h)" to "52.47(a)(9)" per response to RAI 7.5-8.
117.	T1.9-3, new row for SRP Subsection 3.7.1	Row added for clarification of applicability to ESBWR per response to RAI 3.7-63 S01.
118.	T1.9-5, SRP 5.2.3	Changed reference from 5.2.3.4 to 5.2.3.4.2 for consistency.
119.	T1.9-5, SRP 5.2.4	Changed reference from 5.2.4.2 to 5.2.4.1 for consistency.
120.	T1.9-5, SRP 5.4.6	Replaced "Not applicable to the ESBWR" with three line items that describe how specific acceptance criteria of SRP 5.4.6 apply to the ESBWR design per response to the original and revised response to RAI 5.4-62.
121.	T1.9-6, SRP 6.2.1.5	Changed Summary Description of Difference to "PWR requirements have been considered for ESBWR as described in Appendix 6C." and added reference to Appendix 6C for consistency with response to RAI 6.2-144 S01 and Appendix 6C.



Item	Location	Description of Change
122.	T1.9-6, SRP 6.2.2	Split description into two sentences and added "with no credible failure mode" as a clarification.
123.	T1.9-7, App 7.0-A	Changed reference from Section 7.1.1 to Appendix 7B" for consistency.
124.	T1.9-7, SRP 7.1, 7.3	Deleted TMI item associated with these SRPs because it was associated with an earlier revision of the SRP than is now referenced in Table 1.9-20.
125.	T1.9-7, BTP HICB-3, HICB-6 and HICB-13	Changed reference to Subsection 7.1.6.5 for consistency.
126.	T1.9-8, RG 1.6	Changed SRP Section from 8.1 to 8.1, 8.3.1 for consistency.
127.	T1.9-8, RG 1.6	Added reference to Subsection 8.1.5.2.4 per response to RAI 8.3-62.
128.	T1.9-8, RG 1.106	Changed Summary Description of Difference to "The ESBWR does not require 480 VAC electric motors or motor operated valves to perform any safety-related function, therefore, this regulatory guide is not applicable." and added references to Subsection 8.1.5.2.4 and Table 8.1-1 per response to RAI 8.3-62.
129.	T1.9-8, RG 1.128	Changed Summary Description of Difference to "None" and deleted references per response to RAI 8.3-62.
130.	T1.9-8, RG 1.129	Changed Summary Description of Difference to "None" and deleted references per response to RAI 8.3-62.
131.	T1.9-8, RG 1.160	Added "and Subsection 13.5.2 for Operating and Maintenance Procedures" to the Summary Description of Differences and added Subsections 8.1.5.2.4 and 13.5.2 to the list of references per response to RAI 8.3-62.
132.	T1.9-8, ICSB 11	Changed Summary Description of Difference to "See Subsection 8.2.2.1 for the analysis of the reliability and stability of the offsite transmission systems." Changed Subsection 8.2.4.9 to 8.2.4, and added reference to Subsection 8.2.2.1. Changes per response to RAI 8.3-62.

Item	Location	Description of Change
133.	T1.9-8, ICSB 21	Changed Summary Description of Difference to "None" and deleted reference to Subsection 8.2.2.2 per response to RAI 8.3-62.
134.	T1.9-9, SRP 9.2.2	Added reference to Subsection 9.2.7 for consistency.
135.	T1.9-10, SRP 10.4.1, 1st entry	Inserted "GDC 60" for consistency.
136.	T1.9-10, SRP 10.4.2, "Standards for Steam Condensers"	Changed "None" to "ESBWR design is based on the 10th Ed. (2006)" in Summary Description of Difference Column. Added "HEI Standards section of Table 1.9-22" to Subsection Where Discussed. Changes for consistency with Table 1.9-22 and Chapter 10.
137.	T1.9-14	Added new listings for SRP 14.3 and 14.3.1 through 14.3.11 with no differences.
138.	T1.9-15	Added "None" to Summary of Differences for SRP 15.0.1. Added listing for SRP 15.0.3 with no differences.
139.	T1.9-15, SRP 15.2.8	Changed references to 15.0.3, 15.4.7.5 and 15.4.9.5 for consistency.
140.	T1.9-15, SRP 15.6.2	Changed references to 15.0.3 and 15.4.8.5 for consistency.
141.	T1.9-15, SRP 15.7.5	Changed references to 15.0.3 and 15.4.10 for consistency. Added "ESBWR does not follow order of events in SRP."
142.	T1.9-17	Inserted note to clarify that SRP acceptance criteria as listed in SRP 17.1 do not exactly match the nomenclature used in T1.9-17.
143.	T1.9-20, BTP HICB-1 to HICB-21	Added BTP in front of HICB number for consistency.
144.	T1.9-20, SRP 3.2.2 and its appendices	Changed from Revision 1, 07/1981 to Draft Revision 2, 04/1996 for consistency with information referenced in Note (5) d of Table 3.2-1.
145.	T1.9-20, SRP 3.6.2	Replaced BTP EMEB 3-1 with BTP 3-4, issued 03/2007, and added comment "Replaces BTP EMEB 3-1 from 04/1996 draft." for consistency with change to Section 3.6.2 in DCD Revision 5.

Item	Location	Description of Change
146.	T1.9-20, SRP 3.7.1 and its appendices	Updated to Revision 3, issued "03/2007", and added listings for Appendices B, C and D consistent with the structure of Revision 3 of the SRP per the response to RAI 3.7-63 S01 Revision 1.
147.	T1.9-20, SRP 3.7.3	Updated to Revision 3, issued "03/2007" for consistency with the response to RAI 3.7-52 S02.
148.	T1.9-20, SRP 3.11	Updated to Revision 3, issued "03/2007" for consistency with SRP revision referenced in DCD Section 3.11.
149.	T1.9-20, SRP 6.2.1.1.C and its appendices	Updated to Revision 7, "Draft 04/1996" for consistency with SRP revision referenced in DCD Subsection 6.2.1.1.5.4.3.
150.	T1.9-20, SRP 6.2.1.5 and BTP CSB 6-1	Changed ESBWR Applicable to "Yes" and changed comment from "PWR only" to "Applied to calculation of containment back-pressure for ECCS analyses" for consistency with response to RAI 6.2-144 S01 and DCD Appendix 6C.
151.	T1.9-20, SRP 6.7	Changed "LCS" to "Leakage Control System" due to change to Global Acronym List.
152.	T1.9-20, SRP 13.2 and 13.5	Changed "—" to "No" in ESBWR Applicable column for consistency.
153.	T1.9-20, SRP 13.5.2.1	Added "COL" designation in Comments column.
154.	T1.9-20, SRP 14.3 and SRP 14.3.1 through 14.3.11 and its appendices	Changed Issued Date from "Draft 04/1996" to "03/2007" and changed ESBWR Applicable from "No" to "Yes".
155.	T1.9-20, SRP 15.0.3	New listing for consistency with Chapter 15 – SRP 15.0.3, Title "Design Basis Accident Radiological Consequence Analyses for Advanced Light Water Reactors", Revision 0, Issued date "03/2007", Applicable "Yes".
156.	T1.9-21	Updates made to several RG titles for consistency with referenced revisions.
157.	T1.9-21, RG 1.61	Updated to Revision 1, issued "03/2007" and deleted URD optimization comment per response to RAI 3.7-66.

Item	Location	Description of Change
158.	T1.9-21, RG 1.82	Changed ESBWR Applicable to "No" per response to RAI 6.2-173 S01.
159.	T1.9-21, RG 1.96	Changed "LCS" to "Leakage Control System" due to change to Global Acronym List.
160.	T1.9-21, RG 1.99 and 1.100	Moved URD intent comment from RG 1.99 to RG 1.100 for consistency with Table 1.9-21a.
161.	T1.9-21, RG 1.128	Deleted "See Table 1.9-8 for exceptions." from Comments column per response to RAI 8.3-62.
162.	T1.9-21, RG 1.129	Changed ESBWR Applicable to "Yes". Deleted "See Table 1.9-8 for exceptions." from Comments column. Changes per response to RAI 8.3-62.
163.	T1.9-21, RG 1.184	Updated issue date to "07/2000" for consistency with referenced revision.
164.	T1.9-21, RG 4.21	Added listing for RG 4.21 for consistency with response to RAI 12.7-5. Title "Minimization of Contamination and Radioactive Waste Generation: Life-Cycle Planning", Revision 0, Issued date "06/2008", Applicable "Yes".
165.	T1.9-21, RG 5.69	Added new listing for RG 5.69, Title "Guidance for the Application of the Radiological Sabotage Design-Basis Threat in the Design, Development, and Implementation of a Physical Security Program that meets 10 CFR 73.55 Requirements", Revision "0", Issued "08/2007", ESBWR Applicable "Yes".
166.	T1.9-21a	Deleted listing for RG 1.61 per response to RAI 3.7-66.
167.	T1.9-22	Editorial changes to titles of codes and standards at various points in the table, including several AMCA standards, ACI 307, NFPA 92A.
168.	T1.9-22, AISI	Added Year 2002 for CF02-1.
169.	T1.9-22, ASCE	Added new listing for ASCE 43-05, Year 2005, Description "Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities" for consistency with Appendix 3A.
170.	T1.9-22, ASME Section	Updated applicable year of NOG-1 from 2002 to 2004 per response to RAI 9.1-96.

Item	Location	Description of Change
171.	T1.9-22, ASME Section	Added new listing for NQA-1-1994, Subpart 2.7 for consistency with change made to Table 17.0-1.
172.	T1.9-22, ASME Section	Changed "RA-Sa7-2003" to "RA-Sa-2003" for consistency with the standard.
173.	T1.9-22, ASME Section	Marked ASME BPVC Section III as Tier 2* per response to RAI 5.2-75 and 5.2-75 Revision 1.
174.	T1.9-22, ASME, OM Code	Added new listing for OM S/G-1990 for consistency with the response to RAI 3.9-19.
175.	T1.9-22, ASTM	Added new listing for ASTM A564/A564M-04, Year 2004 (R 2009), Description "Standard Specification for Hot-Rolled and Cold-Finished Age-Hardening Stainless Steel Bars and Shapes" for consistency with response to RAI 12.7-5.
176.	T1.9-22, ASTM	Changed from 1991 to 1989 revision of ASTM D3803 for consistency with RG 1.52 Rev 3, ASME AG-1-2003 and Chapter 16 Tech Spec Subsection 5.5.13.
177.	T1.9-22, ASTM	Added new listing for ASTM E797-05, Year 2005, Description "Standard Practice for Measuring Thickness by Manual Ultrasonic Pulse-Echo Contact Method" for consistency with Subsection 3.8.1.7.3.10.
178.	T1.9-22, ABMA	Changed "Anti-Friction" to "American" in organization name.
179.	T1.9-22, FCI	Deleted "Inc." from organization name.
180.	T1.9-22, HEI	Changed "Exchanger" to "Exchange" in organization name.
181.	T1.9-22, IEEE Section	<p>Added listings as follows for IEEE 450 and IEEE 484 per response to RAI 8.3-62:</p> <p>IEEE 450-1975, Year "1975", Title:  "Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations"</p> <p>IEEE 484-1975, Year "1975", Title:  "Recommended Practice for Installation of Large Lead Storage Batteries for Generating Stations and Substations"</p>

Item	Location	Description of Change
182.	T1.9-22, IEEE Section	Deleted listings for IEEE 1187 and IEEE 1188 per response to RAI 8.3-62.
183.	T1.9-22, DOD, MIL-STD and MIL HDBK Section	MIL-STD 461D and 462D replaced with MIL-STD 461E issued in 1999 for consistency with response to RAI 3.11-35. Changed "Emissions and Susceptibility" to "Characteristics of Subsystems and Equipment" to match title of new revision.
184.	T1.9-22, NEI	<p>Added two new NEI Standards as follows for consistency with Chapter 16 Bases 3.7.2 Reference 6 and Section 9A.2:</p> <p>NEI 99-03, Issued "2001", Title/Issue date "Control Room Habitability Assessment Guidance, Revision 0, June 2001"</p> <p>NEI 00-01, Issued "2005", Title/Issue date "Guidance for Post-Fire Safe Shutdown Analysis, Revision 1, January 2005"</p>
185.	T1.9-22, NEI	Added new listing for NEI 07-13, Year 2009, Description "Methodology for Performing Aircraft Impact Assessments for New Plant Designs, Revision 7, May 2009" for consistency with Appendix 19D.
186.	T1.9-22, UL	Added new listing for UL 752, Year 2005, Description "UL Standard for Bullet-Resisting Equipment, 11th Edition (Reprint with Revisions through and including December 21, 2006)" for consistency with Section 13.6.
187.	T1.9-22, Others	Deleted listing for HEI Standards, ninth edition, due to conflict with listing in HEI section.
188.	T1.9-22, Others	Added new entry for NIOSH 86-113 for consistency with the response to RAI 9.4-29 S03.
189.	T1.9-22 Notes	Added "*Table sections that are bracketed and italicized with an asterisk following the brackets are designated as Tier 2*. Prior NCR approval is required to change." per response to RAI 5.2-75.
190.	T1.9-23	Changed "Discussed" to "Referenced" in last column header because not all referenced locations include a discussion of the NUREG report.

Item	Location	Description of Change
191.	T1.9-23	Deleted listings for NUREG reports 75/014 and CR-4550 for consistency with other DCD locations.
192.	T1.9-23, NUREG-0933	Added 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7 and 7.8 to list of referenced locations for consistency.
193.	T1.9-23, NUREG-1242	Added new listing for NUREG-1242 for consistency with Section 15.4 as follows: No. "1242 Vol. 3, Part 1", Issue date "08/1994", Title: "NRC Review of Electric Power Research Institute's Advanced Light Water Reactor Utility Requirements Document"
194.	T1.9-23, NUREG-1552	Split out separate entry for Supplement 1 of NUREG-1552. Supplement is only referenced in Appendix 9A.
195.	T1.9-23, NUREG/CR-0737	Deleted this entry. Section 8.1 actually refers to NUREG-0737.
196.	T1.9-23, NUREG/CR-2919	Added "2B" as Section where Discussed.
197.	T1.9-23, NUREG/CR-5341	Deleted 19B from list of referenced locations for consistency.
198.	T1.9-23, NUREG/CR-5750	Changed issue date from "12/1998" to "02/1999".
199.	T1.9-23, NUREG/CR-6049	Changed issue date to 08/1993 and revised title for consistency with the issued NUREG.
200.	T1.9-23, NUREG/CR-6400	Changed issue date to 01/1997 and revised title for consistency with the issued NUREG.
201.	T1.9-23, NUREG/CR-6639	Changed issue date to 03/1999 for consistency with the issued NUREG.
202.	T1.9-23, NUREG/CR-6707	Changed issue date to 03/2001 and revised title for consistency with the issued NUREG.
203.	T1.10-1	General table update for consistency with final Rev 6 version of DCD.
204.	T1.10-1	General table update for consistency with COL items listed in all DCD locations.
205.	T1.10-1, Item 12.5-3-A	Added references to Subsection 12.3.1.3 and Section 13.4.

<b>Item</b>	<b>Location</b>	<b>Description of Change</b>
206.	S1.11.1	Changed "10 CFR 52.47(a)(1)(iv)" to "10 CFR 52.47(a)(21)" in three locations per response to RAI 7.5-8.
207.	T1.11-1	General editorial updates throughout table for clarity and consistency with current DCD structure.
208.	T1.11-1, Issue 67.3.3	Changed "Table 1.9-4" and "complies with GL 82-33" to "Table 1C-1" and "has addressed GL 82-33 through compliance with Regulatory Guide 1.97" for consistency with current DCD structure. Changed the title of RG 1.97 Revision 4 to "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants" for consistency with the title of that revision of the RG.
209.	T1.11-1, Issue 172	Technical resolution revised based on NUREG-0933 to address this issue more completely. The original resolution statement only addressed one of 21 concerns raised by this issue.