

ESBWR DCD Chapter 1 – Introduction and General Description of Plant

26A6642AD Revision 1 to Revision 2 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1	Acronym List	General update to HVAC acronyms to match new definitions from Chapter 9.
2	S1.1.2.1, last paragraph	Deleted "main transformer;" as something not included in the ESBWR Standard Plant design.
3	Figure 1.1-1	<p>Added new note 3 in response to RAI 9.5-4 as follows: "THIS SITE CONTAINS A SECOND RELIABLE SOURCE OF WATER FOR THE FIRE PROTECTION SYSTEM. THE SECOND RELIABLE SOURCE HAS SUFFICIENT CAPACITY TO MEET THE MAXIMUM WATER DEMAND OF THE SYSTEM FOR A PERIOD OF TWO HOURS. WATER SOURCES THAT ARE USED FOR MULTIPLE PURPOSES ENSURE THAT THE REQUIRED QUANTITY OF WATER IS DEDICATED FOR FIRE PROTECTION ONLY."</p> <p>Replaced fire water storage tank with two separate tanks to accommodate amount of water required for IC/PCC pool and spent fuel pool makeup by responses to RAI 9.1-13, RAI 9.1.21, and the amended response to RAI 2.4-23.</p>
4	Figures 1.1-3a and 1.1-3b	Updated heat balance figures to show range of uncertainty in rated core flow value.
5	S1.2.2.1.2, Automatic Depressurization System	Deleted second sentence in last paragraph due to design change for ECCS initiation.
6	S1.2.2.4.1, second paragraph	Changed beginning of second sentence to read: "To start an IC into operation, a condensate return valve and condensate return bypass valve are opened, whereupon ..." Deleted "the 250 VDC" in last sentence.
7	S1.2.2.4.1	Added new third paragraph: "An in-line vessel is located on the condensate return line, downstream of the nitrogen motor operated valve. The in-line vessel is located on each ICS train to provide additional condensate volume for the RPV."

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8	S1.2.2.4.1	Added new fifth paragraph: "The Dryer/Separator pool and Reactor Well are designed to have sufficient water volume to provide makeup water to the IC/PCC pools for the initial 72 hours of a LOCA."
9	S1.2.2.4.1, seventh paragraph (of Rev 2)	Changed third sentence to read: "A safety-related FAPCS makeup line is provided to convey emergency makeup water into the IC/PCC pool from the Fire Protection System or from a valve connection point in the yard area just outside of the reactor building."
10	S1.2.2.4.1, eighth paragraph (of Rev 2)	Added new bullet: "Loss-of-Coolant Accident (LOCA)." This change involved minor editorial changes to previous two bullets to relocate the word "and".
11	S1.2.2.4.1, next to last paragraph	Deleted "remote" and changed "lights" to "indicators".
12	S1.2.2.4.2, manual actuation bullet	Deleted "and interlocked to RPV high high drywell pressure"
13	S1.2.2.4.2, third paragraph after bullets	Deleted third sentence about influence of high drywell pressure on initiation signal.
14	S1.2.2.5.10, third bullet	Added word "area" after "maintenance".
15	S1.2.2.5.10, fifth bullet	Revised text to read: "A system of keylocks in one of the IFTS main operation panels and in the main control room is provided to control access to any IFTS maintenance area."
16	S1.2.2.5.10	Added new last paragraph: "A procedure provides instructions to the IFTS operators on how to maintain the IFTS filled with water in the event (for any reason) the fuel transport cart with fuel loaded within the IFTS cannot be moved (i.e., fuel cannot be removed from within the IFTS)." (Incorporated in response to RAI 14.3-67)
17	S1.2.2.5.11	Loose parts monitoring system has been eliminated in accordance with response to RAIs 4.4-7 through 4.4-9. Section deleted.

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18	S1.2.2.7.1, second paragraph	Editorial change. Replaced ", including startup, refueling, safe shutdown, and maintaining the plant ..." with "(as denoted in the Chapter 16 Table 1.1-1, MODES) and maintain the plant ..."
19	S1.2.2.7.3, first paragraph	Replaced "for uniformity using rigid steel structures capable of to maintaining structural integrity ..." with "to maintain structural integrity ..."
20	S1.2.2.7.3, second and third paragraphs	Editorial change. Replaced "non-essential" with "nonsafety-related" in three locations.
21	S1.2.2.11.2, second paragraph	Deleted "four" in front of "low pressure feedwater heaters". Changed "direct contact" to "open".
22	S1.2.2.11.4, first paragraph	Deleted "two" in front of "sets of moisture separator reheaters" in fourth sentence.
23	S1.2.2.11.4, third paragraph	Changed "whenever" to "if needed when".
24	S1.2.2.11.5, second paragraph	Deleted "a gland seal evaporator, "
25	S1.2.2.11.5, fourth paragraph	Deleted "because clean steam from the gland seal evaporator is normally used as seal steam during normal operation." Added ", if available" at end of next to last sentence.
26	S1.2.2.11.5, fifth paragraph	Deleted "continuous".
27	S1.2.2.11.6, first paragraph	Changed "pressure regulator" to "Steam Bypass and Pressure Control (SB&PC) system". Relocated word "design" in third sentence. Changed "pressure regulation system" to "SB&PC system"
28	S1.2.2.11.6, third paragraph	Deleted "two pairs of" in second sentence. Revised third sentence to read: "Several valve chests house bypass valves, thus making up the design 110% rated steam bypass capacity."

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29	S1.2.2.11.7	Deleted "continuously" from fourth paragraph. Added "closure" in fifth paragraph. Added ", or they can both be operated simultaneously at half load" to end of last sentence in last paragraph for consistency with Chapter 10.
30	S1.2.2.12.2	Added "in this part of the system".
31	S1.2.2.12.11, first paragraph	Revised second sentence to read: "During plant startup and shutdown and at any other time when the main steam and/or extraction steam is unavailable, the ABS can provide the necessary steam at enough pressure to the various equipment items addressed below."
32	S1.2.2.13.3, fourth paragraph	Revised next to last sentence to read: "In all divisions, the Class 1E batteries are divided into two groups that are sized to power various safety-related loads for a period of 72 hours." Deleted last sentence.
33	S1.2.2.14	Deleted first sentence. Deleted "utility" in original second sentence. Added following at end: "See Subsection 8.2.3 for additional information on the interface requirements for the power transmission system." These changes remove a duplicated COL action item from this chapter that belongs to Chapter 8.
34	S1.2.2.16.2	General update to HVAC acronyms to match new definitions from Chapter 9.
35	S1.2.2.16.10	Added following new sentence to first paragraph: "The Electrical Building also provides space for the Technical Support Center."
36	S1.2.2.17.1	Revised section to read: "The intake and discharge structures house the circulating water pumps, isolation valves, water treatment equipment, and associated electrical power and controls equipment. The structure and systems are nonsafety-related. Requirements for the intake and discharge structure are established to support the design of the Circulating Water System, which is discussed in Subsection 10.4.5." These changes remove a duplicated COL action item from this chapter that belongs to Chapter 10.

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37	S1.2.2.18.2	Revised last sentence to read: "The site security plan and requirements for the Site Security System are discussed in Section 13.6." This change remove a duplicated COL action item from this chapter that belongs to Chapter 13.
38	S1.2.3	Changed text to read: "There are no COL Applicant items specific to this section of the DCD. Items to be provided by the COL Applicant are defined in subsequent chapters that go into more detail about plant systems."
39	Figures 1.2-1 to 1.2-11	All these figures have been updated to include additional dimensioning. Also incorporates responses to RAIs 3.7-27 and 3.8-61.
40	Table 1.3-4	Changed "Tornado tangential" to "Tornado rotational" in Wind Design section. Changed note (1) to read: "See Section 3.7.5.1 and Figures 2.0-1 and 2.0-2."
41	S1.5.4, Reference 1.5-1	Updated revision status to Revision 3, April 2006.
42	S1.5.4, Reference 1.5-4	Added non-proprietary version information as follows: "NEDO-32906-A, Class I (Non-proprietary), June 2003."
43	Table 1.6-1	Deleted table entries for the following GE documents and Licensing Topical Reports that are no longer referenced in the latest version of the DCD: 22A4365AB, 22A4365, 22A7007, NEDO-20533, NEDO-21231, NEDO-21471, NEDO-21471-01, NEDE-21544P, NEDE-21596P, NEDO-21778-A, NEDE-24302-P, NEDE-25100-P, NEDE-25118, NEDO-25153, NEDE-25273, NEDE-30640, NEDO-30832-A, NEDC-30851-P-A, NEDC-31393, NEDC-31987P-A, NEDC-31984P, NEDE-32178P, NEDC-32424P-A, NEDC-32523P-A, NEDC-32694P-A, NEDC-33004P-A.
44	Table 1.6-1, 23A6100	Deleted specific references to Appendices 3B and 5A. Deleted Sections 3B and 5.2. Added Section 15A.
45	Table 1.6-1, GEAP-5620	Deleted Chapter 16 Bases sections B3.3 and B3.4.

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46	Table 1.6-1, NEDE-11146	Added new item NEDE-11146, Title: "General Electric Co., "Pressure Integrity Design Basis for New Off-Gas Systems," NEDE-11146, July 1971 (Proprietary)", referenced in Section 11.3.
47	Table 1.6-1, NEDO-11209-04a	Added Section 17.0.
48	Table 1.6-1, NEDO-21000	Added Chapter 16 Bases section B3.4.2.
49	Table 1.6-1, NEDO-21143-1	Deleted Section 15.3.
50	Table 1.6-1, NEDE-21175-3-P-A	Added reference to non-proprietary version.
51	Table 1.6-1, NEDE-21354-P	Added reference to non-proprietary version.
52	Table 1.6-1, NEDE-23785-1-PA	Added new item NEDE-23785-1-PA, Title: "GE Nuclear Energy, "GESTR-LOCA – A model for Prediction of Fuel Rod Thermal Performance", NEDE 23785-1-PA (Volume 1), Revision 1, Class III (Proprietary), October 1984 and NEDO-23785A (Volume 1), February 1985", referenced in Section 4.2.
53	Table 1.6-1, NEDE-24011-P-A	Revised issuing organization to Global Nuclear Fuel.
54	Table 1.6-1, NEDE-24326-1-P	Added Section 7.1. Added Revision 1 and Class III to title listing.
55	Table 1.6-1, NEDO-25257	Added new item NEDO-25257, Title: "General Electric Co., "Radiation Exposure from Airborne Effluents – The REFAE Code," E. W. Bradley and D. Nguyen, NEDO 25257, July 1980", referenced in Section 12.2.
56	Table 1.6-1, NEDE-31152P	Added "Class III (GE Proprietary)" to title listing.

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57	Table 1.6-1, NEDO-31439-A	Added new item NEDO-31439-A, Title: "GE Nuclear Energy, "The Nuclear Measurement Analysis and Control Wide Range Neutron Monitor System (NUMAC WRNMS)," NEDO-31439-A (Non-Proprietary), October 1990", referenced in Section 7.1.
58	Table 1.6-1, NEDE-31758P-A	Added new item NEDE-31758P-A, Title: "GE Nuclear Energy, "GE Marathon Control Rod Assembly," NEDE-31758P-A (Proprietary), October 1991", referenced in Section 4.2.
59	Table 1.6-1, NEDG-31831	Added new item NEDG-31831, Title: "GE Nuclear Energy, "SBWR Design and Certification Program Quality Assurance Plan," NEDG-31831, May 1990", referenced in Section 17.0.
60	Table 1.6-1, NEDC-31858P	Changed version to Revision 2, September 1993.
61	Table 1.6-1, NEDC-31959P	Added new item NEDC-31959P, Title: "GE Nuclear Energy, "Fuel Rod Thermal Analysis Methodology (GSTRM)," NEDC-31959P (Proprietary), April 1991", referenced in Section 4.2.
62	Table 1.6-1, NEDO-31960-A	Added Section 1.9.
63	Table 1.6-1, NEDE-32084P-A	Added new item NEDE-32084P-A, Title: "GE Nuclear Energy, "TASC-03A, A Computer Program for Transient Analysis of a Single Channel," NEDC-32084P-A, Revision 2, Class III (proprietary), July 2002", referenced in Section 4.4.
64	Table 1.6-1, NEDC-32140P-A	Added new item NEDC-32140P, Title: "GE Nuclear Energy, "Nuclear Measurement Analysis and Control Power Range Neutron Monitor (NUMAC PRNM) Retrofit Plus Option III Stability Trip Function," NEDC-32410P-A (Proprietary), October 1995", referenced in Section 7.1.
65	Table 1.6-1, NEDE-32176P	Updated version to Revision 3, Class III (Proprietary), April 2006. Deleted Section 1A. Added Section 4.4.

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66	Table 1.6-1, NEDE-32177P	Deleted Section 1A. Added Section 4.4.
67	Table 1.6-1, NEDO-32291-A and Supplement 1	Added new item NEDO-32291-A, Title: "GE Nuclear Energy, "System Analyses For the Elimination of Selected Response Time Testing Requirements," NEDO-32291-A, Class I (Non-proprietary), October 1995, and NEDO-32291-A, Supplement 1, Class I (Non-proprietary), October 1999", referenced in Chapter 16 Bases sections B3.3.1, 3.3.5 and 3.3.6.
68	Table 1.6-1, NEDC-32601-P-A	Added GE Nuclear Energy as issuing organization. Added reference to non-proprietary version NEDO-32601-A. Added Section 4.4.
69	Table 1.6-1, NEDO-32708	Added Section 15.3
70	Table 1.6-1, NEDE-32906P-A	Added Sections 5.2 and 15.2. Deleted Section 4.4 and Chapter 16 Bases Section B2.1.1.
71	Table 1.6-1, NEDE-32906P, Supplement 1-A	Added non-proprietary version to listing.
72	Table 1.6-1, NEDC-33081P and NEDC-33082P	Added GE Nuclear Energy as issuing organization.
73	Table 1.6-1, NEDC-33083P-A	Added GE Nuclear Energy as issuing organization. Added non-proprietary version to listing. Added Section 4.4 and Chapter 16 Bases Section B2.1.1.
74	Table 1.6-1, NEDC-33083P, Supplement 1	Added Section 1.1.
75	Table 1.6-1, NEDC-33139P	Added new item NEDC-33139P, Title: "GE Nuclear Energy, "Cladding Creep Collapse," NEDC-33139P-A (Proprietary), July 2005", referenced in Section 4.2.
76	Table 1.6-1, NEDO-33175	Updated version to Revision 3, October 2006.

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77	Table 1.6-1, NEDO-33181	Updated version to Revision 2, July 2006. Updated title to "NP-2010 COL Demonstration Project Quality Assurance Plan". Added Section 17.0.
78	Table 1.6-1, NEDC-33197P	Added new item NEDC-33197P, Title: "GE Energy Nuclear, "Gamma Thermometer System for LPRM Calibration and Power Shape Monitoring," NEDC-33197P, Class III (Proprietary), and NEDO 33197, (Non-proprietary), September 2005", referenced in Section 7A.
79	Table 1.6-1, NEDO-33201	Updated version to "NEDO-33201, Class I (Non-proprietary), Revision 1, September 2006". Added Sections 1D, 15A, 16B, 19A and 19B.
80	Table 1.6-1, NEDO-33217	Updated issuing organization to "GE Energy – Nuclear". Updated version to Revision 1, January 2006. Added Sections 7B, 13.3, 18.3, 18.11 and 18.12. Deleted Section 18E.
81	Table 1.6-1, NEDO-33226	Added new item NEDO-33226, Title: "GE Energy – Nuclear, "ESBWR I&C Software Management Plan," NEDO-33226, (Nonproprietary), August 2006", referenced in Section 7B.
82	Table 1.6-1, NEDO-33227	Added new item NEDO-33227, Title: "GE Energy – Nuclear, "ESBWR I&C Software Configuration Management Plan," NEDO-33227, (Non-proprietary), March 2006", referenced in Section 7B.
83	Table 1.6-1, NEDO-33228	Added new item NEDO-33228, Title: "GE Energy – Nuclear, "ESBWR I&C Software Verification and Validation Plan," NEDO-33228, Class I (Non-proprietary), January 2006", referenced in Section 7B.
84	Table 1.6-1, NEDO-33229	Added new item NEDO-33229, Title: "GE Energy – Nuclear, "ESBWR I&C Software Development Plan," NEDO-33229, (Nonproprietary), March 2006", referenced in Section 7B.
85	Table 1.6-1, NEDO-33230	Added new item NEDO-33230, Title: "GE Energy – Nuclear, "ESBWR I&C Software Safety Plan," NEDO-33230, (Nonproprietary), January 2006", referenced in Section 7B.

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86	Table 1.6-1, NEDE-33232P	Added new item NEDE-33232P, Title: "GE Energy – Nuclear, "SSLC/RTIF System Performance Specification," NEDE-33232P (Proprietary), NEDO 33232 (Non-proprietary), October 2005", referenced in Section 7.1.
87	Table 1.6-1, NEDO-33234	Added new item NEDO-33234, Title: "GE Energy – Nuclear, "RTIF Digital Trip Module (DTM) Function Software Design Specification," NEDO-33234 (Non-Proprietary), October 2005", referenced in Section 7.1.
88	Table 1.6-1, NEDC-33237P	Added new item NEDC-33237P, Title: "Global Nuclear Fuel, "GE14 for ESBWR Critical Power Correlation, Uncertainty, and OLMCPR Development", NEDC-33237P, Class III (Proprietary), and NEDO-33237, Class I (Non-proprietary), Revision 1 scheduled October 2006", referenced in Section 4.4 and Chapter 16 Bases Sections 2.1.1 and 3.2.2.
89	Table 1.6-1, NEDC-33238P	Added new item NEDC-33238P, Title: "Global Nuclear Fuel, "GE14 Pressure Drop Characteristics", NEDC-33238P, Class III (Proprietary), and NEDO-33238, Class I (Non-proprietary), December 2005", referenced in Section 4.4.
90	Table 1.6-1, NEDC-33239P	Added new item NEDC-33239P, Title: "Global Nuclear Fuel, "GE14 for ESBWR Nuclear Design Report," NEDC-33239-P, Class III (Proprietary) and NEDO-33239, Class I (Non-proprietary), February 2006", referenced in Section 4.3 and Chapter 16 Bases Section B3.1.1.
91	Table 1.6-1, NEDC-33240P	Added new item NEDC-33240P, Title: "Global Nuclear Fuel, "GE14 for ESBWR Fuel Assembly Mechanical Design Report," NEDC 33240P, Class III (Proprietary), and NEDO 33240, Class I (Non-proprietary), January 2006", referenced in Section 4.2.
92	Table 1.6-1, NEDC-33242P	Added new item NEDC-33242P, Title: "Global Nuclear Fuel, "GE14 for ESBWR Fuel Rod Thermal-Mechanical Design Report," NEDC-33242P, Class III (Proprietary), and NEDO-33242, Class I (Non-proprietary), January 2006", referenced in Section 4.2.

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93	Table 1.6-1, NEDC-33243P	Added new item NEDC-33243P, Title: "Global Nuclear Fuel, "ESBWR Marathon Control Rod Nuclear Design Report," NEDC-33243P, Class III (Proprietary), May 2006", referenced in Section 4.2 and Chapter 16 Bases Section B3.1.3.
94	Table 1.6-1, NEDC-33244P	Added new item NEDC-33244P, Title: "Global Nuclear Fuel, "ESBWR Marathon Control Rod Mechanical Design Report," NEDC-33244P, Class III (Proprietary), June 2006", referenced in Section 4.2.
95	Table 1.6-1, NEDO-33245	Added new item NEDO-33245, Title: "GE Energy – Nuclear, "ESBWR I&C Software Quality Assurance Plan," NEDO-33245, Class I (Non-proprietary), January 2006", referenced in Sections 7B and 17.1.
96	Table 1.6-1, NEDO-33246	Added new item NEDO-33246, Title: "GE Energy – Nuclear, "ESBWR I&C Software Integration Plan," NEDO-33246, Class I (Non-proprietary), January 2006", referenced in Section 7B.
97	Table 1.6-1, NEDO-33247	Added new item NEDO-33247, Title: "GE Energy – Nuclear, "ESBWR I&C Software Installation Plan," NEDO-33247, Class I (Non-proprietary), January 2006", referenced in Section 7B.
98	Table 1.6-1, NEDO-33248	Added new item NEDO-33248, Title: "GE Energy – Nuclear, "ESBWR I&C Software Operations and Maintenance Plan," NEDO-33248, Class I (Non-proprietary), March 2006", referenced in Section 7B.
99	Table 1.6-1, NEDO-33249	Added new item NEDO-33249, Title: "GE Energy – Nuclear, "ESBWR I&C Software Training Plan," NEDO-33249, Class I (Non-proprietary), March 2006", referenced in Section 7B.
100	Table 1.6-1, NEDO-33251	Added new item NEDO-33251, Title: "GE Energy – Nuclear, ESBWR I&C Defense-In-Depth and Diversity Report, NEDO-33251, Class I (Non-proprietary), Revision 0, July 2006", referenced in Section 7.8.

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101	Table 1.6-1, NEDE-33259P	Added new item NEDE-33259P, Title: "GE Energy – Nuclear, "ESBWR Reactor Internals Flow Induced Vibration Program – Part 1," NEDE-33259P, Class III (Proprietary), January 2006, and NEDO-33259, Class I (Non-proprietary), January 2006", referenced in Section 3L.
102	Table 1.6-1, NEDC-33260	Added new item NEDC-33260, Title: "GE Energy – Nuclear, "NP2010 COL Demonstration Project, SQAR – ESBWR QA Requirements for Procurement of Engineering Services and Equipment," NEDC-33260, Revision 1, July 2006", referenced in Section 17.0.
103	Table 1.6-1, NEDE-33261P	Added new item NEDE-33261P, Title: "GE Energy – Nuclear, "ESBWR Containment Load Definition," NEDE-33261P, Class III (Proprietary) and NEDO 33261, Class I (Non-proprietary), May 2006", referenced in Sections 3.8 and 3B.
104	Table 1.6-1, NEDO-33276	Added new item NEDO-33276, Title: "GE Energy – Nuclear, "ESBWR HFE Verification and Validation Implementation Plan," NEDO 33276, Class I (Non-proprietary), Revision 0, May 2006", referenced in Sections 13.5 and 18.11.
105	Table 1.6-1, NEDO-33278	Added new item NEDO-33278, Title: "GE Energy – Nuclear, "ESBWR HFE Design Implementation Plan," NEDO 33278, Class I (Non-proprietary), Revision 1, June 2006", referenced in Section 18.12.
106	Table 1.6-1, NEDO-33289	Added new item NEDO-33289, Title: "GE Energy – Nuclear, "NP2010 COL Demonstration Project, Reliability Assurance Program Plan," NEDO 33289, Class I (Non-proprietary), Revision 0, October 2006", referenced in Section 17.4.
107	Table 1.6-1	Deleted note at end of table.
108	S1.7.2	Added following to end of paragraph: "Figures 1.7-1 through 1.7-4 illustrate the symbols used on the simplified P&IDs that appear throughout this DCD."
109	Table 1.7-1	Changed material for standard line designation code FE from "Carbon Steel" to "Low Alloy Steel".

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110	Table 1.7-1, Notes	Added "for Table 1.7-1" due to the notes having been pushed to a separate page from the table.
111	Figures 1.7-1 through 1.7-4	Inserted four new figures to define symbols used on simplified P&IDs.
112	S1.8	Changed section title to "Interfaces with Standard Design". Changed text to read: "This section is based on SRP 1.8 and Regulatory Guide 1.70 Appendix A guidance, to identify site-specific interfaces with those portions of the ESBWR Standard Plant."
113	S1.8.1	Deleted "Tier 2" from first paragraph. Added "where they are described" to end of first paragraph. Changed second paragraph text to read: "All interface requirements for safety-related systems are addressed in the DCD."
114	S1.8.2, first paragraph	Deleted "Tier 2" from first paragraph. Added "where they are described" to end of first sentence in paragraph.
115	S1.8.2, second paragraph	Changed text to read: "ESBWR Standard Plant designs for the following systems are included in the DCD for the purposes of allowing the NRC to evaluate the overall acceptability of the design."
116	S1.8.2.1	Changed text of last two sentences to read: "The circulating water system is designed to remove heat from the main condenser and transport it to the environment. CIRC is described in Subsection 10.4.5."
117	S1.8.2.2	Changed text of last sentence to read: "PSWS is described in Subsection 9.2.1."
118	S1.8.2.3	Changed text to read: "The offsite power transmission system is described in Sections 8.1 and 8.2."
119	S1.8.2.4	Changed text of last sentence to read: "MWS is described in Subsection 9.2.3."
120	S1.8.2.5	Changed text to read: "Potable and Sanitary Water systems are described in Subsection 9.2.4."

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121	S1.8.2.6	Changed text of last sentence to read: "Communication links between the on-site nonsafety-related Non-Essential Distributed Control and Information System (NE-DCIS) and other on-site and offsite facilities such as the Technical Support Center, Emergency Operations Facility and the simulator are included in the design."
122	Table 1.8-1	Changed last column heading to read: "Location(s) where discussed"
123	Table 1.8-1, Note 1	Changed text to read: "Protection against turbine missiles is included as described in Section 3.5."
124	Table 1.8-1, Note 2	Changed "... is included in DCD Appendix 1D." to "... is included as described in Subsection 9.1.3."
125	Table 1.8-2	Changed last column heading to read: "Location(s) where discussed"
126	S1.9.4.2	Added references to Tables 1C-1 and 1C-2.
127	Table 1.9-10, SRP 10.2	Inserted new item "5.b – Frequency for surveillance testing of main steam stop and control valves" with summary description: "In accordance with NRC accepted programs at operating plants, the main steam stop and control valves will be tested quarterly instead of once per month."
128	Table 1.9-20, SRPs 2.1.1 to 2.3.5	Updated to reference draft Rev 3 versions issued April 1996. (Incorporated in response to RAIs 2.1-1, 2.2-1 and 2.3-1.)
129	Table 1.9-20, SRP 3.6.3	Deleted "Draft" in issued date column.
130	Table 1.9-20, SRP 11.5 and Appendix 11.5-A	Updated to reference draft Rev 4 version issued April 1996.
131	Table 1.9-20, SRP 14.3 and its subparts	Added listings for new Tier 1 ITAAC SRPs that were issued as drafts in April 1996.
132	Table 1.9-20, SRP 15.0.2	Updated listing to indicate this SRP was issued as Rev 0 in December 2005. Removed "Draft for comments" in last column.
133	Table 1.9-21, RG 1.84	Updated to reference Rev 33, issued August 2005.

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134	Table 1.9-21, RG 1.92	Updated to reference Rev 2, issued July 2006. Deleted note about proposed Rev 2 in last column.
135	Table 1.9-21, RG 1.97	Updated to reference Rev 4, issued June 2006. Deleted note in comments column.
136	Table 1.9-21, RG 1.147	Updated to reference Rev 14, issued August 2005. Deleted note about reprinting in last column.
137	Table 1.9-21	Added listings for newly issued Reg Guides 1.201, 1.203, 1.204, 1.205 and Draft Guide DG-1145.
138	Table 1.9-21	Added listings for RG 4.7 and 4.15 in response to RAI 11.5-22.
139	Table 1.9-21a, RG 1.92	Changed "33-100 Hz" to "above 100 Hz or the rigid frequency as defined in RG 1.92 Figures 2 and 3" based on new Revision 2 of this RG. (Incorporates response to RAI 3.12-20.)
140	Table 1.9-21a, RG 1.97	Deleted two items related to RG 1.97. They are no longer applicable now that RG 1.97 is updated to Revision 4.
141	Table 1.9-22, AASHTO	Added LTS-2, issued 1985, "Standard Specifications for Structural Supports for Highway Signs, Luminaries, and Traffic Signals"
142	Table 1.9-22, ACI	Deleted 212.1R-81 and 212.2R-81.
143	Table 1.9-22, ACI	Added 212.4R-04, issued 2004, "Guide for the Use of High-Range Water-Reducing Admixtures (Superplasticizers) in Concrete"
144	Table 1.9-22, ANSI	Updated N13.1-1969 to ANSI/HPS N13.1-1999, issued 1999, "Sampling and Monitoring Releases of Airborne Radioactive Substances from the Stacks and Ducts of Nuclear Facilities"
145	Table 1.9-22, ANSI	Added N13.10-1974, issued 1974, "Specification and Performance of On-Site Instrumentation for Continuously Monitoring Radioactivity in Effluents"
146	Table 1.9-22, ANSI	Added N45.4, issued 1972, "Leakage-Rate Testing of Containment Structures for Nuclear Reactors"

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147	Table 1.9-22, ANS	Added 3.5-1998, issued 1998, "Nuclear Power Plant Simulators for Use in Operator Training and Examination"
148	Table 1.9-22, ANS	Added 40.37-1993, issued 1993, "Mobile Radioactive Waste Processing Systems", withdrawn 2003.
149	Table 1.9-22, ANS	Deleted ANS 52.1, which has been replaced by ANS 58.14.
150	Table 1.9-22, ANS	Added 56.4-1983, issued 1983 (R 1988), "Pressure and Temperature Transient Analysis for Light Water Reactors"
151	Table 1.9-22, API	Added 674-95, issued 1995, "Positive Displacement Pumps-Reciprocating"
152	Table 1.9-22, API	Added 675-94, issued 1994 (R 2000), "Positive Displacement Pumps-Controlled Volume"
153	Table 1.9-22, ASME	Added B16.11-2005, issued 2005, "Forged Steel Fittings, Socket-Welding and Threaded"
154	Table 1.9-22, ASME	Added B16.25-2003, issued 2003, "Buttwelding Ends"
155	Table 1.9-22, ASME	Changed version of NQA-1 and NQA-1a to 1983 version.
156	Table 1.9-22, ASME	Changed version of NQA-2 to 1983 version consistent with response to RAI 4.5-30. Special notice statement deleted from title section and replaced with note indicating more recent versions exist.
157	Table 1.9-22, ASME	Added RA-S-2002, issued 2002, "Standard for Probabilistic Risk Assessment for Nuclear Power Plant Applications"
158	Table 1.9-22, ASME	Updated version of ASME B&PV code to "2001 including Addenda through 2003" except for some portions of Section III consistent with response to RAI 3.12-1. Titles of code sections also updated to be consistent with referenced version.
159	Table 1.9-22, ASTM	Added A262-02ae3, issued 2002, "Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels"
160	Table 1.9-22, ASTM	Added A571-84, issued 1984 (R 1997), "Standard Specification for Austenitic Ductile Iron Castings for Pressure-Containing Parts Suitable for Low-Temperature Service"

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161	Table 1.9-22, ASTM	Added A668/A668M-04, issued 2004, "Standard Specification for Steel Forgings, Carbon and Alloy, for General Industrial Use"
162	Table 1.9-22, ASTM	Added A992/A992M-06a, issued 2006, "Standard Specification for Structural Steel Shapes"
163	Table 1.9-22, ASTM	Added B359-98, issued 1998, "Standard Specification for Copper and Copper-Alloy Seamless Condenser and Heat Exchanger Tubes With Integral Fins"
164	Table 1.9-22, ASTM	Added C776-83, issued 1983, "Standard Specification for Sintered Uranium Dioxide Pellets"
165	Table 1.9-22, ASTM	Added C934-85, issued 1985 (R 1990), "Guide for Design and Quality Assurance Practices for Nuclear Fuel Rods, Edition 1"
166	Table 1.9-22, ASTM	Added D1411-04, issued 2004, "Standard Test Methods for Water-Soluble Chlorides Present as Admixtures in Graded Aggregate Road Mixes"
167	Table 1.9-22, ASTM	Added D3803, issued 1989 (R 1995), "Standard Test Methods for Nuclear-Grade Activated Carbon"
168	Table 1.9-22, ASTM	Added D5144-00, issued 2000, "Standard Guide for Use of Protective Coating Standards in Nuclear Power Plants"
169	Table 1.9-22, EPRI	Added NP-1831, issued 1981, "An Engineering Approach for Elastic-Plastic Fracture Analysis"
170	Table 1.9-22, EPRI	Added NP-3540-LD, issued 1984, "Two Phase Flow Through Intergranular Stress Corrosion Cracks and Resulting Acoustic Emission"
171	Table 1.9-22, EPRI	Added NP-3596-SR, issued 1981, "PICEP: Pipe Crack Evaluation Program, Special Report, Revision 1"
172	Table 1.9-22, EPRI	Added NP-3607, issued 1984, "Advances in Elastic-Plastic Fracture Analysis"
173	Table 1.9-22, EPRI	Added NP-4867M, issued 1987, "Concrete Containment Tests, Phase 2: Structural Elements with Liner Plates"
174	Table 1.9-22, EPRI	Added NP-4869M, issued 1987, "Methods for Ultimate Load Analysis of Concrete Containments: Second Phase"

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175	Table 1.9-22, EPRI	Added NP-4947-SR, issued 1987, "BWR Hydrogen Water Chemistry Guidelines"
176	Table 1.9-22, EPRI	Added NP-5283-SR-A, issued 1987, "Guidelines for Permanent BWR Hydrogen Water Chemistry Installations"
177	Table 1.9-22, EPRI	Added NP-5930, issued 1988, "A Criterion for Determining Exceedance of the Operating Basis Earthquake"
178	Table 1.9-22, EPRI	Added NP-6559, issued 1989, "Voice Communication System Compatible with Respiratory Protection"
179	Table 1.9-22, EPRI	Added NP-6695, issued 1989, "Guidelines for Nuclear Plant Response to an Earthquake"
180	Table 1.9-22, EPRI	Added NSAC-202L, issued 1999, "Recommendations for an Effective Flow-Accelerated Corrosion Program, Revision 2"
181	Table 1.9-22, EPRI	Added TR-100082, issued 1991, "Standardization of Cumulative Absolute Velocity"
182	Table 1.9-22, EPRI	Added TR-106439, issued 1996, "Guidelines on Evaluation and Acceptance of Commercial Grade Digital Equipment for Nuclear Safety Applications"
183	Table 1.9-22, EPRI	Added URD, issued 1997, "Advanced Light Water Reactor Utility Requirements Document, Volume III, Revision 6, May 1997 and Volume II, Chapter 1 Appendix A, PRA Key Assumptions and Groundrules", Revision 6, December 1993"
184	Table 1.9-22, HI	Added ANSI/HI 1.6 (M104), issued 2000, "Centrifugal Tests, issued January 1, 2000"
185	Table 1.9-22, HI	Added ANSI/HI 2.6 (M108), issued 2000, "American National Standard for Vertical Pump Tests, issued January 1, 2000"
186	Table 1.9-22, IEEE	Added 81-1983, issued 1983, "Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System"

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187	Table 1.9-22, IEEE	Added 279-1971, issued 1971 (R 1978), "Criteria for Protection Systems for Nuclear Power Generating Stations (Note – Withdrawn June 1984, and superceded by IEEE-603. Included here because it is still referred to in some Federal regulations)"
188	Table 1.9-22, IEEE	Changed version of IEEE 344 to 1987, issued 1987 (R 1993). Added note to indicate more recent version exists.
189	Table 1.9-22, IEEE	Added 622A-1984, issued 1984 (R 1999), "Recommended Practice for the Design and Installation of Electric Pipe Heating Control and Alarm Systems for Power Generating Stations"
190	Table 1.9-22, IEEE	Added 627-1980, issued 1980 (R 1996), "Standard for Design Qualification of Safety Systems Equipment Used in Nuclear Power Generating Stations"
191	Table 1.9-22, IEEE	Added 634-2004, issued 2004, "Standard Cable-Penetration Fire Stop Qualification Test"
192	Table 1.9-22, IEEE	Added 638-1992, issued 1992, "Standard for Qualification of Class 1E Transformers for Nuclear Power Generating Stations"
193	Table 1.9-22, IEEE	Added 665-1995, issued 1995, "Guide for Generation Station Grounding"
194	Table 1.9-22, IEEE	Added 692-1997, issued 1997, "Standard Criteria for Security Systems for Nuclear Power Generating Stations"
195	Table 1.9-22, IEEE	Added 830-1998, issued 1998, "Recommended Practice for Software Requirements Specifications"
196	Table 1.9-22, IEEE	Added 1008-1987, issued 1987 (R 2002), "Standard for Software Unit Testing"
197	Table 1.9-22, IEEE	Added 1028-1998, issued 1998 (R 2002), "Standard for Software Reviews and Audits"
198	Table 1.9-22, IEEE	Added 1042-1987, issued 1987 (R 1993), "Guide to Software Configuration Management"

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199	Table 1.9-22, IEEE	Added 1058-1998, issued 1998, "Standard for Software Project Management Plans"
200	Table 1.9-22, IEEE	Added 1074-1997, issued 1997, "Standard for Developing Software Life Cycle Processes"
201	Table 1.9-22, IEEE	Added 1202-1991, issued 1991, "Standard for Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies"
202	Table 1.9-22, IEEE	Added 1228-1994, issued 1994 (R2002), "Software Safety Plans"
203	Table 1.9-22, IEEE	Added C37.20-1969, issued 1969, "Switchgear Assemblies and Metal-Enclosed Bus (see subparts below)"
204	Table 1.9-22, IEEE	Added C57.91-1995, issued 1995 (R 2004), "IEEE Guide for Loading Mineral-Oil-Immersed Transformers"
205	Table 1.9-22, IEEE	Changed issue date for N42.18 to 1980 (R 2004).
206	Table 1.9-22, IEC	Added 801-x, issued 1984 to 1991, "Electromagnetic Compatibility for Industrial-Process Measurement and Control Equipment"
207	Table 1.9-22, ISO	Added ISO/IEC 17799, issued 2005, "Information Technology – Security Techniques – Code of Practice for Information Security Management"
208	Table 1.9-22, MIL-STD	Added new heading for Department of Defense Military Standards
209	Table 1.9-22, MIL-STD	Added 461D, issued 1993, "Requirements for the Control of Electromagnetic Interference Emissions and Susceptibility"
210	Table 1.9-22, MIL-STD	Added 462D, issued 1993, "Measurement of Electromagnetic Interference Characteristics"
211	Table 1.9-22, NEMA	Added AB 1-2002, issued 2002, "Molded Case Circuit Breakers"
212	Table 1.9-22, NFPA	Added NFPA 1, issued 2003, "Uniform Fire Code Handbook"
213	Table 1.9-22, NEI	Added new heading for Nuclear Energy Institute

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214	Table 1.9-22, NEI	Added 91-04, issued 1994, "Severe Accident Issue Closure Guidelines, Revision 1, December 1994"
215	Table 1.9-22, SMACNA	Updated version of 1481 from 2nd to 3rd edition, issued 2005
216	Table 1.9-23	Deleted references to the following NUREGs that are no longer referred to elsewhere in the DCD: NUREG-75/014, NUREG-0324, NUREG-0775 Supp. 1, NUREG-0974 Supp., NUREG-1116, NUREG-1150, NUREG-1437, NUREG-1524, NUREG-1792, NUREG/BR-0058 Rev. 4, NUREG/CR-1278, NUREG/CR-1327, NUREG/CR-2239, NUREG/CR-2300, NUREG/CR-3908, NUREG/CR-4025, NUREG/CR-4551, NUREG/CR-4772, NUREG/CR-4780, NUREG/CR-4920, NUREG/CR-5423, NUREG/CR-5497, NUREG/CR-5695, NUREG/CR-5801, NUREG/CR-6025, NUREG/CR-6075, NUREG/CR-6350, NUREG/CR-6613, NUREG/CR-6883.
217	Table 1.9-23, NUREG-75/067	Added Section 3E
218	Table 1.9-23, NUREG-0313	Added Sections 1C and 5.3
219	Table 1.9-23, NUREG-0460	Changed Section "15" to "15.0".
220	Table 1.9-23, NUREG-0484	Added Section 3.7
221	Table 1.9-23, NUREG-0588	Deleted Sections 3.10, 3.11 and 7.5. Added Section 11.5.
222	Table 1.9-23, NUREG-0619	Added Section 1C
223	Table 1.9-23, NUREG-0654	Deleted Section 19.2
224	Table 1.9-23, NUREG-0660	Added Section 7.5

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225	Table 1.9-23, NUREG-0694	Deleted Section 2.2
226	Table 1.9-23, NUREG-0711	Added Section 7.1
227	Table 1.9-23, NUREG-0718	Added "Rev. 1" to first column.
228	Table 1.9-23, NUREG-0737	Added Sections 1A and 1B. Deleted Sections 5.2, 18.1, 18.2 and 18.4.
229	Table 1.9-23, NUREG-0737, Supp 1	Added Section 1C. Deleted Section 18.4.
230	Table 1.9-23, NUREG-0763	Added NUREG-0763, Issue date 05/1981, Title: "Guidelines for Confirmatory In-Plant Tests of Safety-Relief Valve Discharges for BWR Plants", referenced in Section 1C.
231	Table 1.9-23, NUREG-0783	Changed issue date to 11/1981. Added Section 1C. Deleted Section 16.
232	Table 1.9-23, NUREG-0933	Updated reference to include Supplement 29, issue date November 2005. Added Section 3.5.
233	Table 1.9-23, NUREG-1275	Added NUREG-1275, Volume 2, Issue date 1987, Title: "Operating Experience Feedback Report – Air System Problem", referenced in Section 1C.
234	Table 1.9-23, NUREG-1434	Added Section 1C.
235	Table 1.9-23, NUREG-1503	Added Section 3.8.
236	Table 1.9-23, NUREG-1552	Added NUREG-1552, Issue date 07/1996, Title: "Fire Barrier Penetration Seals in Nuclear Power Plants (including Supplement 1)", referenced in Section 9A.
237	Table 1.9-23, NUREG-1560	Added NUREG-1560, Issue date 12/1997, Title: "Individual Plant Examination Program: Perspectives on Reactor Safety and Plant Performance, Volumes 1 to 5", referenced in Section 19.2.

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238	Table 1.9-23, NUREG-1793	Added NUREG-1793, Issue date 09/2004, Title: "Final Safety Evaluation Report Related to Certification of the AP1000 Standard Design", referenced in Section 15.0.
239	Table 1.9-23, NUREG/CR-0009	Added NUREG/CR-0009, Issue date 10/1978, Title: "Technological Bases for Models of Spray Washout of Airborne Contaminants in Containment Vessels", referenced in Section 15.4.
240	Table 1.9-23, NUREG/CR-1161	Added NUREG/CR-1161, Issue date 05/1980, Title: "Recommended Revisions to Nuclear Regulatory Commission Seismic Design Criteria", referenced in Section 3.7.
241	Table 1.9-23, NUREG/CR-2137	Added NUREG/CR-2137, Issue date 06/1981, Title: "Realistic Seismic Design Margins of Pumps, Valves, and Piping", referenced in Section 19C.
242	Table 1.9-23, NUREG/CR-2442	Added NUREG/CR-2442, Issue date 06/1982, Title: "Reliability Analysis of Steel-Containment Strength", referenced in Section 19C.
243	Table 1.9-23, NUREG/CR-3526	Added NUREG/CR-3526, Issue date 03/1984, Title: "Impact of Changes in Damping and Spectrum Peak Broadening on the Seismic Response of Piping Systems", referenced in Section 3.7.
244	Table 1.9-23, NUREG/CR-3862	Added NUREG/CR-3862, Issue date 05/1985, Title: "Development of Transient Initiating Event Frequencies for Use in Probabilistic Risk Assessments", referenced in Section 15A.
245	Table 1.9-23, NUREG/CR-5341	Added NUREG/CR-5341, Issue date 10/1989, Title: "Round Robin Analysis of the Behaviour of a 1:6 scale reinforced concrete containment model pressurized to Failure: Post-test Evaluations", referenced in Section 19C.
246	Table 1.9-23, NUREG/CR-5347	Added NUREG/CR-5347, Issue date 01/1989, Title: "Recommended Minimum Power Spectral Density Functions Compatible with NRC Regulatory Guide 1.60 Response Spectrum", referenced in Section 3.7.

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247	Table 1.9-23, NUREG/CR-5405	Added NUREG/CR-5405, Issue date 02/1990, Title: "Analysis of Shell-Rupture Failure Due to Hypothetical Elevated- Temperature Pressurization of the Sequoyah Unit 1 Steel Containment Building", referenced in Section 19C.
248	Table 1.9-23, NUREG/CR-6049	Added NUREG/CR-6049, Issue date 08/1985, Title: "Piping Benchmark Problems Dynamic Analysis Independent Support Motion Response Spectrum Method", referenced in Section 3D.
249	Table 1.9-23, NUREG/CR-6189	Added NUREG/CR-6189, Issue date 07/1996, Title: "A Simplified Model of Aerosol Removal by Natural Processes in Reactor Containments", referenced in Section 15.4.
250	Table 1.9-23, NUREG/CR-6400	Added NUREG/CR-6400, Issue date 1996, Title: "HFE Insights For Advanced Reactors Based Upon Operating Experience", referenced in Section 18.3.
251	Table 1.9-23, NUREG/CR-6604	Added NUREG/CR-6604, Issue date 04/1998, Title: "RADTRAD: A Simplified Model for Radionuclide Transport and Removal and Dose Estimation", referenced in Section 15.4.
252	Table 1.9-23	Deleted note at end of table.
253	Table 1.10-1	General table update to be consistent with COL action items as they exist in Revision 2 of the DCD.
254	S1.11	Changed "Supplement 28" to "Supplement 29" for consistency with Draft Guide 1145.
255	Table 1.11-1, Item A-36	Changed last paragraph of resolution statement to read: "In addition, see Subsection 9.1.4.18 for the confirmatory spent fuel rack load drop analysis, which includes consideration of equipment maintenance procedures; equipment inspection; safe load paths and routing plans; heavy load handling operations controls; and operator qualification, training, and control."
256	Table 1.11-1, Items B-38, B39 and B40	Changed resolution statement to read: "Issue is addressed in site-specific environmental impact documentation."

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257	Table 1.11-1, Item B-41	Changed resolution statement to read: "Impact of power plant operation on fishery resources is addressed in site-specific environmental impact documentation."
258	Table 1.11-1, Item B-43	Changed last sentence of resolution statement to read: "The extent to which aerial photography was used is addressed in site-specific environmental impact documentation."
259	Table 1.11-1, Item B-53	Added cross-reference to Subsections 8.1.2.2, 8.1.5.2.1 and 8.2.1.2.
260	Table 1.11-1, Item B-64	Changed resolution statement to read: "Decommissioning will be addressed as the unit approaches the end of its lifetime."
261	Table 1.11-1, Item C-16	Changed resolution statement to read: "Issue is addressed in site-specific environmental impact documentation."
262	Table 1.11-1, Issue 51	Changed last sentence of resolution statement to read: "Overall reliability of the design of these systems is addressed in Chapter 19."
263	Table 1.11-1, Issue 196	Added new table item for Issue 196, Boral Degradation, from NUREG-0933 Supplement 29. Resolution statement is as follows: "(1) GE does not plan to use boral in the design of spent fuel storage racks for ESBWR."
264	Table 1.11-1, Item HF1.1	Deleted last two sentences of resolution statement because they are not important to the discussion of how issue was resolved.
265	Table 1.11-1, Item HF5.1	Changed next to last sentence of resolution statement to read: "In addition, an interdisciplinary design review group and reviews for site-specific design and construction work will be established."
266	Table 1.11-1, Item HF5.2	Changed next to last sentence of resolution statement to read: "In addition, an interdisciplinary design review group and reviews for site-specific design and construction work will be established."