

## Chapter 1 Summary of Changes from Rev 00 to Rev 01

<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
1	Cover Page	Removed Conditional Release. Document is now verified.
2	1.1.2.1	Deleted ", and the solid-state adjustable speed drive units powering pump motors in the feedwater system and other plant systems" from Electrical Building description because the feedwater ASDs are now located in Turbine Building.
3	1.1.2.7	In front of 4500 MWt, inserted the following: "up to"
4	1.1.3	Revised text from: "None." to: "If the COL applicant desires multiple units on one site, the changes and additional information needed to license a multi-unit plant will be supplied by the COL applicant. The COL applicant and its equipment suppliers will establish the rated electrical power output based on the Turbine Island design selected and site-specific conditions, and may base the COL application on a lower rated thermal power output in order to satisfy site-specific environmental parameters."
5	1.2.1	Deleted ", and the solid-state adjustable speed drive units powering pump motors in the feedwater system and other plant systems" from Electrical Building description because the feedwater ASDs are now located in Turbine Building.
6	1.2.2.2.7	Changed "turbine bypass not available" to "insufficient turbine bypass available" in two places in the bulleted list.
7	1.2.2.2.8	Replaced Plant Automation System with PAS after first usage in section.
8	1.2.2.4.1, Paragraph 2	Replaced reference to Level 2 in two places with reference only to a low water level signal.
9	1.2.2.4.2, Page 1.2-35	Changed fifth first level bullet to read: Squib valve firing logic is normally 2-out-of-4, but reverts to 2-out-of-3 logic and ignores the bypassed division when the division of sensors bypass is operated.
10	1.2.2.4.2, Page 1.2-36	Changed end of first paragraph to read: ... inventory is provided assuming a LOCA in one GDCS line and failure of one GDCS injection (squib) valve to actuate in a separate GDCS train.

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11	1.2.2.5.9, Page 1.2-39	Changed from Reactor Building to Fuel Building.
12	1.2.2.5.9, Page 1.2-40	Changed second bullet to read: Moving the cask into the cask pit using the main Fuel Building crane. To the paragraph immediately after this bullet added: in the Fuel Building.
13	1.2.2.11.4 and 1.2.2.11.7	Changed "Section 10A" to "Appendix 10A"
14	1.2.2.12.10, 2nd paragraph, page 1.2- 56	Inserted "normal operating" between "during" and "periods" in the third sentence. Replaced fourth sentence with following: "The HPNSS provides a stored supply of high-pressure nitrogen gas that is sized to compensate for nitrogen leakage from the ADS function SRV accumulators during SRV actuation for a period of eight hours. However, the HPNSS is not required to provide makeup to the SRV accumulators during any design basis event involving SRV actuation."
15	1.2.2.13.8	Inserted new paragraph at end of section: "The MCR emergency lighting system is supplied power from two divisions of the Class 1E Uninterruptible AC power system. The two 72-hour Class 1E batteries of divisions 1 and 2 provide power to the Class 1E 120 VAC 72-hour buses in the MCR. The standby on-site AC power supply provides backup to the battery chargers for Class 1E 72-hour 120 VAC power. Excluding the self-contained battery lighting units, the MCR emergency lighting system is safety-related."
16	1.2.2.14	Changed second and third sentences to read: "The interface point between the ESBWR design and the utility design for the normal preferred power supply occurs at the high voltage terminals of the main generator circuit breaker (switchyard side) and the high voltage terminals of the unit auxiliary transformers after a common tie point. The interface for the alternate preferred power supply occurs at the high voltage terminals of the reserve auxiliary transformers."
17	1.2.2.15.3, Page 1.2-64	In three places changed suppression chamber to wetwell.
18	1.2.2.15.5, Page 1.2-66	In two places changed suppression chamber to wetwell.

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19	1.2.2.15.6, Page 1.2-67	Deleted second bullet.																
20	1.2.2.16.2, Page 1.2-71, Other Building HVAC	Deleted reference to 'hot machine shop ventilation system' because no documentation could be found to support the statement.																
21		Figures 1.2-1, 1.2-2, 1.2-4 and 1.2-5 replaced																
22	Tables 1.3-1 through 1.3-4	Deleted numbers from all column headers for specific plant designs.																
23	Table 1.3-1, Page 1.3-2	Added two new rows as follows to clarify data previously shown in column headers:  <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Vessel inside diameter</td> <td></td> <td></td> <td></td> </tr> <tr> <td>m (in)</td> <td style="text-align: center;">7.06 (278)</td> <td style="text-align: center;">2.79 (110)</td> <td style="text-align: center;">7.06 (278)</td> </tr> <tr> <td>Number of fuel bundles</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">1132</td> <td style="text-align: center;">156</td> <td style="text-align: center;">872</td> </tr> </table>	Vessel inside diameter				m (in)	7.06 (278)	2.79 (110)	7.06 (278)	Number of fuel bundles					1132	156	872
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24	1.3 Tables	General reformatting of all table footnotes into endnotes to eliminate a footnote printing problem. Not marked as a document change.																
25	Table 1.3-1	Added reference to note 5 to Steam Flow row. Changed Feedwater Temperature from "215.6 (420)" to "210-220 (410-428)". Spelled out SS as "stainless steel" in column for "Control material in rods". Added note 5: "(5) Steam flow will vary somewhat with design feedwater temperature. Value shown here is for feedwater temperature of 215.6°C (420°F)."																
26	Table 1.3-2, Page 1.3-9	Changed '2 psid' to '13.8 kPa (2 psid)' in note.																
27	Table 1.3-3, Page 1.3-10	Changed 'pressure suppression chamber' and 'suppression chamber' to 'wetwell' in three locations.																
28	Table 1.3-3, Page 1.3-10	Changed 'HWL' to 'at high water level' in two locations and changed 'LWL' to 'at low water level' in one location to remove undefined acronyms.																
29	Table 1.3-3, Page 1.3-11	Changed "% free volume / day" to "% weight in free volume / day" for units on leakage rate.																
30	Table 1.3-4, Page 1.3-12	Removed values of 0.30 from ESBWR column for seismic design. Revised footnote to read: 'Peak ground acceleration of 0.30g per Regulatory Guide 1.60 spectra with addition of North Anna ESP site-specific characteristics.'																

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31	Page 1.4-5	Changed utility name from 'Kernkraft Leibstadt AG' to 'Kernkraftwerk Leibstadt AG'
32	1.5.3	Added following sentence to last bullet on TRACG qualification: The NRC safety evaluation report for Reference 1.5-3 concludes that no further testing in support of the thermal hydraulic behavior of the design is necessary.
33	1.5.4, Reference 1.5-9	Added issue date of March 1994.
34	Table 1.6-1	Expanded listing for 22A7007 to include information previously listed separately under GESSAR II. Deleted GESSAR II listing.
35	Table 1.6-1	In listing for 23A6100, changed 6.2 to 5.2 in Section column. Expanded title to include reference to Appendix 5A that was previously listed under 23A6100AB, Revision C. Deleted listing for 23A6100AB, Revision C. This change was made because Revision C does not exist in eMatrix and as an alpha revision it was never officially verified. The verified version of the ABWR SSAR is 23A6100, not 23A6100AB.
36	Table 1.6-1	In listing for NEDE-10958, changed Chapter 16 basis section to B2.1.1.
37	Table 1.6-1	In listing for NEDO-20533, deleted Section 6.2.
38	Table 1.6-1	Added new listing for:  Report No.: NEDO-21000 Title: GE Nuclear Energy, "Investigation of Cause of Cracking in Austenitic Stainless Steel Piping, NEDO-21000 Volume 1 and 2, Class 1, Revision 0, July 1975 Section No.: 3E
39	Table 1.6-1	Deleted listings for NEDO-21052 and NEDE-21526, which were not referenced in final Rev. 0 version of Section 6.2.
40	Table 1.6-1	In listing for NEDE-24011-P-A, changed Section "15" to "15.0" and deleted Chapter 16 bases sections.

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41	Table 1.6-1	Added new listing for  Report No.: NEDE-30640 Title: General Electric Company, "Evaluation of Proposed Modifications to the GESSAR II Design," NEDE 30640, Class III (Proprietary), June 1984. Section No.: 19.4.
42	Table 1.6-1	Added issue date of March 1994 to listing for NEDC-32301.
43	Table 1.6-1	In listing for NEDC-32601-P-A and NEDC-32694-P-A, changed Chapter 16 basis section to B2.1.1.
44	Table 1.6-1	In listings for NEDE-32906P-A, Revised "B.2" to "B.2.1.1" and deleted "B3.1".
45	Table 1.6-1	In listing for NEDO-33004-A, added year of document issue as 2003.
46	Table 1.6-1	Changed NEDG-33181 to NEDO-33181. Changed its revision from 0 to 1 and its issue date from June to October 2005.
47	Table 1.6-1	Added new listing for  Report No.: NEDO-33217 Title: General Electric Company, "Man Machine Interface System and Human Factors Engineering Implementation Plan", October 2005. Section No.: 18.1, 18E.
48	Table 1.6-1, new note	Note: Note: Table 1.6-1 has not yet been fully updated based on Revision 1 of all chapters.
49	Table 1.7-1	Added new line designation, FE. Service: Feedwater System. Temperature range: up to 240°C (464°F). Rating: 1500 LB. Material: Carbon Steel.
50	1.8.1, Paragraph 2	Inserted "for which this DCD does not seek certification" between "requirements" and "for".
51	1.8.2, Paragraph 1	In second sentence, changed e.g. to i.e. and inserted "all other" in front of "HVAC systems". In last sentence deleted "most of"
52	1.8.2, Paragraph 2	Deleted "This includes following systems:"
53	1.8.2.1	Changed "details of" to "interfaces with".

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54	1.8.2.2	Corrected typos. Changed TCWWS to TCCWS and PSW to PSWS.
55	1.8.2.3	Revised first sentence to read: "The offsite power transmission system is not included as part of the standard design."
56	1.8.2.6	Inserted "Non-Essential" in front of Distributed Control and Information System. Changed DCIS to NE-DCIS.
57	Table 1.8-1, Headings	Revised Liquid Waste Management to Radwaste Management. Revised Main Control Room to Control Building. Added new heading for Fuel Building. Unable to mark these changes with revision bars due to document formatting.
58	Table 1.8-1, Nuclear Boiler System	Added interface with Reactor Building
59	Table 1.8-1, Control Rod Drive System	Added interface with DC Power Supply. Removed interface with Offsite Power System.
60	Table 1.8-1, Leak Detection and Isolation System	Added interface with Main Steam System
61	Table 1.8-1, Essential DCIS	Changed 7.3.5 to 7.9.1 for DCD location.
62	Table 1.8-1, Safety System Logic and Control	Added interface with Containment. Changed 7.5.3 to 7.3.4 for DCD location.
63	Table 1.8-1, Process Radiation Monitoring System	Added interfaces for Main Steam System, Onsite AC Power Supply and Fuel Building.
64	Table 1.8-1, Fuel and Auxiliary Pools Cooling System	Added interface for Fuel Building
65	Table 1.8-1, Remote Shutdown System	Removed interface with Safety-Related Ventilation System
66	Table 1.8-1, Passive Containment Cooling System	Removed interface with DC Power Supply
67	Table 1.8-1, Containment Inerting System	Removed interface with Offsite Power System

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68	Table 1.8-1, Flood Protection	Added interfaces to Feedwater System, Component Cooling Water Systems, Control Building, Reactor Building and Fuel Building.
69	Table 1.8-1, Missile Protection	Added footnote 1: "Protection against turbine missiles is included in DCD Section 3.5." Added interfaces for Control Building, Reactor Building and Fuel Building.
70	Table 1.8-1, Pipe Whip Protection	Added interfaces for Feedwater System and Main Steam System.
71	Table 1.8-1, Mechanical Systems and Components	Added interfaces for all columns except Offsite Power System.
72	Table 1.8-1, Seismic and Dynamic Qualification of Mechanical and Electrical Equip	Added interfaces for all columns except Component Cooling Water Systems, Offsite Power System and Onsite AC Power System.
73	Table 1.8-1, Environmental Design of Mechanical and Electrical Equip	Added interfaces for all columns except Component Cooling Water Systems, Offsite Power System and Onsite AC Power System.
74	Table 1.8-1, Inservice Inspection of Class 2 and 3 Components	Added interfaces for Feedwater System, Main Steam System and Component Cooling Water Systems.
75	Table 1.8-1, Fire Protection	Added footnote 2: "IC/PCC pool and spent fuel pool makeup via permanent FAPCS piping connected directly to the site Fire Protection System is included in DCD Appendix 1D." Added interfaces for Control Building, Reactor Building and Fuel Building.
76	Table 1.8-2, Circulating Water System	Added interface with Initial Test Program
77	Table 1.8-2, Non-Essential DCIS	Changed 7.7.7 to 7.9.2 for DCD location.
78	Table 1.8-2	Deleted entire row for Gaseous Waste Management System.
79	Table 1.8-2, Effluent Monitoring and Sampling	Added interface for Initial Test Program
80	Section 1.9.1	Changed 10 CFR 50.34(g) to 10 CFR 50.34(h)

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81	Section 1.9.2	Added new sentence to end of paragraph: "The applicability column of Tables 1.9 20 and 1.9 21 refers to whether or not the requirement is applicable during Design Certification of the ESBWR. Standard Review Plans, Branch Technical Positions, and Regulatory Guides that apply only during detailed design, construction, fabrication and erection are indicated by a dash in the applicability column and a comment."
82	Section 1.9.3	Changed first sentence to read: "Table 1.9 23 lists NUREGs that have been included as references in the ESBWR DCD or that impact the COL applicant."
83	Section 1.9.4.1	Changed 10 CFR 50.34(g) to 10 CFR 50.34(h)
84	Table 1.9-4, SRP 4.4	Added "II.3.b – NEDO-31960 as basis for stability methodology." to column 2, "Stability methodology based on TRACG ESBWR Stability LTR, NEDE-33083, Supplement 1." to column 3 and "4.4" to column 4.
85	Table 1.9-6	Significant revisions to first two entries for SRP 6.2.4. Third and fourth entries for SRP 6.2.4 deleted because they didn't refer to an SRP acceptance criterion.
86	Table 1.9-7	Changed SRP Section for last two items to App. 7.1-B and App. 7.1-C.
87	Table 1.9-8	Added new item for SRP 8.1. Column 2 reads: "TMI Action Item II.E.3.1, Emergency Power Supply for Pressurizer Heater", column 3 reads: "This item is applicable only to PWRs and does not apply to the ESBWR." and column 4 reads: "N/A".
88	Table 1.9-8	Added new item for SRP 8.1. Column 2 reads: "TMI Action Item II.G.1, Emergency Power for Pressurizer Equipment", column 3 reads: "This item is applicable only to PWRs and does not apply to the ESBWR." and column 4 reads: "N/A".
89	Table 1.9-9, SRP 9.1.3	Replaced page numbers with reference to actual acceptance criteria. For first item, this is II.1.c. For second item, this is II.1.d, e, f, g and h. Deleted remaining items for this SRP because they did not refer to SRP acceptance criteria.
90	Table 1.9-9, SRP 9.5.1	All items related to this SRP were substantially modified. See document for new text.
91	Table 1.9-9, SRP 9.5.3	Deleted text in columns two and four.

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92	Table 1.9-9, SRP 9.5.4	Deleted VI from column 1. Replaced text in column two with "All." Added "Not Applicable. See Table 1.9-20." to description.
93	Table 1.9-9, SRPs 9.5.5 to 9.5.8	Replaced text in column two with "All." Replaced text in column three with "Not Applicable. See Table 1.9-20."
94	Table 1.9-11, SRP 11.3, item 2	Changed 30 minutes to 1 hour.
95	Table 1.9-15	Inserted new item for SRP 15.1.1 – 15.1.4. Column 2 reads: "II.D Criteria 2 – Requires critical power ratio (CPR) to remain above MCPR safety limit for incidents of moderate frequency", column 3 reads: "ESBWR is licensed to the fraction of rods in transition boiling instead of to a CPR safety limit. See discussion under (c) of the Technical Rationale for this SRP." and column 4 reads: "15.2".
96	Table 1.9-15	Inserted second new item for SRP 15.1.1 – 15.1.4. Column 2 reads: "II.D.6.b – Specifies a 0.8 multiplier on the reactivity insertion rate." Column 3 reads: "ESBWR applies an approved TRACG statistical uncertainty for control rod reactivity, and a conservative, Technical Specification rod motion specification." and column 4 reads: "15.2, 15.3, 5.2".
97	Table 1.9-17, SRP 17.1	Inserted "II.1 – Applicant is responsible for overall QA program" in column 2. Changed column 3 to read: "GE and its ESBWR Team Members are responsible for their own QA programs." Inserted "17.1.1, 17.1.2" in column 4.
98	Table 1.9-17	New exception added for SRP 17.1. Column 2 reads: "II.3, 10, 11 and 13 – Meet identified quality-related Regulatory Guides", column 3 reads: "Alternate positions employed for specific Regulatory Guides." and column 4 reads: "17.1.3, 17.1.10, 17.1.11, 17.1.13".
99	Table 1.9-20, SRP 1.8	Updated applicable revision to 2 and updated issued date to Draft 04/1996.
100	Table 1.9-20, SRP 3.6.1	Updated applicable revision to 3 and updated issued date to Draft 04/1996 for all parts of this SRP (5 table entries).

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101	Table 1.9-20, SRP 6.5.2	Changed "No Containment Spray System" to "Drywell Spray function not credited".
102	Table 1.9-20, SRP 13.1.2-13.1.3	Updated issued date to 07/2005.
103	Table 1.9-21, RG 1.189	Changed Applicability to Yes. Revised Comment to read: See BTP SPLB 9.5-1 of SRP 9.5.1 for details of applicability.
104	Table 1.9-22	Changed ACI 318/318R-02 to 318-05. Changed year of issue to 2005. Deleted " (ACI 318R-02)" from title of this standard.
105	Table 1.9-22	Deleted AISC S328-86 and 335-89. Added AISC 360-05, issued 2005, with title "Specification for Structural Steel Buildings (Also endorsed by ANSI)"
106	Table 1.9-22, AISC N690-94	Added "(R 2004)" to year column. Changed Supplement 1 to Supplement 2, issued October 2004 in title column
107	Table 1.9-22, AISI CF02-1	Added "and 2000 supplement" to title.
108	Table 1.9-22, AISI SG02-1 and SG02-2	Added year 2001.
109	Table 1.9-22	Added AISI SG05-1e, issued 2004, titled "Supplement 2004 to the North American Specification for the Design of Cold-Formed Steel Structural Members, 2001 Edition"
110	Table 1.9-22	Added ANS 3.2-1994, year 1994 (R 1999), titled "Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants"

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111	Table 1.9-22, ASME	<p>Added ASME A17.1-2004, year 2004, title "Safety Code for Elevators and Escalators".</p> <p>Added ASME B1.20.1-1983, year 1983 (R 2001), title "Pipe Threads, General Purpose (Inch)".</p> <p>Added ASME B16.42-1998, year 1998, title "Ductile Iron Pipe Flanges and Flanged Fittings, Classes 150 and 300".</p> <p>Added ASME B36.10-2004, year 2004, title "Welded and Seamless Wrought Steel Pipe".</p> <p>Replaced NQA-1-2000 with NQA-1-1989, year 1989, title "Quality Assurance Program Requirements for Nuclear Facilities, with Addenda 1a-1989, 1b-1991, and 1c-1992 (Note: more recent versions exist)"</p> <p>Deleted NQA-1-2001</p>
112	Table 1.9-22, ASME B&PV	Updated year to 2004 for all sections of ASME B&PV Code
113	Table 1.9-22, ASTM	General update. Many standards added to this section as marked with revision bars.
114	Table 1.9-22, AWS	Added AWS 1.6:99, year 1999, title "Structural Welding Code – Stainless Steel".
115	Table 1.9-22, EPRI	Added EPRI NP-5380, year 1987, title "NCIG-01 – Visual Weld Acceptance Criteria for Structural Welding at Nuclear Power Plants, Revision 2, September 1987".
116	Table 1.9-22, NFPA	Deleted NFPA 11A, NFPA 11C, NFPA 26, NFPA 78, NFPA 801 and NFPA 805
117	Table 1.9-22, SSPC	Changed PA-2-96 to PA-2-04. Changed year to 2004.
118	Table 1.9-22, Other	Deleted NCIG-01. Now listed as EPRI NP-5380. Added SNT-TC-1A at request of QA. Year 1992. Title: "Recommended Practice for Non-Destructive Testing by American Society for Nondestructive Testing (Note 2001 version exists)"
119	Table 1.9-23	Complete update and restructuring of table. All entries affected. Added note: "Note: Table 1.9-23 has not yet been fully updated based on Revision 1 of all chapters."
120	Table 1.10-1	Major update. Changes are marked with revision bars, but are too extensive to describe in detail. Added note: "Note: Table 1.10-1 has not yet been fully updated based on Revision 1 of all chapters."

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121	Table 1.11-1 notes	Moved bracketed information from notes (4), (5) and (8) to end of notes and expanded them to explain that these codes come from notes in Table II of NUREG-0933.
122	Table 1.11-1, Item A-2	Changed resolution to read: "(1) PWR issue. Discussion of blowdown loads in ESBWR is addressed in Section 3.8, Appendices 3F and 3G."
123	Table 1.11-1, Item A-3	Changed resolution to read: "(1) There are no steam generators in the ESBWR design."
124	Table 1.11-1, Item A-4	Changed resolution to read: "(1) There are no steam generators in the ESBWR design."
125	Table 1.11-1, Item A-5	Changed resolution to read: "(1) There are no steam generators in the ESBWR design."
126	Table 1.11-1, Item A-6	Changed resolution to read: "(1) The ESBWR containment design is not classified as a Mark I containment. All suppression pool hydrodynamic loads have been accounted for in the design of the ESBWR containment. See Section 3.8 and Appendix 3G."
127	Table 1.11-1, Item A-7	Changed second sentence of second paragraph of resolution to read: "As noted in Table 1.9-6, the ESBWR Standard Plant design complies with SRP Section 6.2.1.1.C, which in turn references NUREG-0661, Supp. 1." Changed "suppression chamber" to "wetwell" in third paragraph. Changed 6A to 3B on last line of resolution.
128	Table 1.11-1, Item A-8	Changed second sentence of second paragraph of resolution to read: "As noted in Table 1.9-6, the ESBWR Standard Plant design complies with SRP Section 6.2.1.1.C, which references NUREG-0808." Changed "suppression chamber" to "wetwell" in third paragraph.
129	Table 1.11-1, Item A-9	Changed "Section" to "Subsection" in two locations in the resolution.

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130	Table 1.11-1, Item A-10	Changed referenced subsection from 5.3.1 to 3.9.3. Deleted last sentence of resolution because those statements were not consistent with information provided in DCD Table 1.9-23 and Appendix 1C.
131	Table 1.11-1, Item A-11	Added following to resolution: "This issue is considered resolved through compliance with NUREG-0744, Revision 1."
132	Table 1.11-1, Item A-12	Changed resolution to read: "(1) There are no steam generators or reactor coolant pumps in the ESBWR design."
133	Table 1.11-1, Item A-13	Changed resolution code from (2) to (8).
134	Table 1.11-1, Item A-15	Changed resolution to read: "(8) Issue resolved with publication of decontamination criteria in NUREG/CR-2963."
135	Table 1.11-1, Item A-16	Changed resolution to read: "(1) There is no core spray in the ESBWR design."
136	Table 1.11-1, Item A-19	Changed resolution to read: "(5) See Chapter 7 for further details."
137	Table 1.11-1, Item A-22	Changed resolution to read: "(1) These are PWR issues that do not apply to the ESBWR design."
138	Table 1.11-1, Item A-24	Changed "Table 1.9-23" to "Subsection 3.11.2.2" in the resolution.
139	Table 1.11-1, Item A-25	Changed "8.1.5.2.3" to "8.1.5.2.4" in three locations in resolution. Deleted "Rev. 3" in two locations.
140	Table 1.11-1, Item A-26	Changed resolution to read: "(1) This is a PWR issue that does not apply to the ESBWR design."
141	Table 1.11-1, Item A-28	Changed resolution to read: "ESBWR design incorporates high-density racks for storage of spent fuel. See Subsection 9.1.2 for further details."
142	Table 1.11-1, Item A-30	Changed resolution to read: "(6) Issue integrated into the resolution of Issue 128."
143	Table 1.11-1, Item A-32	Changed resolution to read: "(6) Addressed in Items A-37, A-38 and B-68."

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144	Table 1.11-1, Item A-34	Changed resolution to read: "(6) Resolution implemented via TMI Action Plan Item II.F.3. See Appendix 1A."
145	Table 1.11-1, Item A-36	Changed resolution code to (2, 8). Changed second sentence of first paragraph of resolution to read: "As noted in Table 1.9-9, the ESBWR Standard Plant design complies with SRP Section 9.1.5, which references NUREG 0612."
146	Table 1.11-1, Item A-39	Changed "suppression chamber" to "wetwell" in third paragraph of resolution.
147	Table 1.11-1, Item A-40	Changed "S3.10" to "3.10" and removed extra blank spaces.
148	Table 1.11-1, Item A-42	Changed reference to Rev 2 of NUREG-0313. Changed second sentence of first paragraph of resolution to read: "As noted in Subsection 5.2.3.4.1, the ESBWR Standard Plant design complies with NUREG-0313."
149	Table 1.11-1, Item A-43	Changed resolution to read: "(1) The ESBWR relies on passive methods rather than pumps for preventing core melt following a LOCA event."
150	Table 1.11-1, Item A-46	Changed resolution to read: "(8) Seismic qualification of ESBWR equipment is described in Sections 3.7 and 3.10."
151	Table 1.11-1, Item A-49	Changed resolution to read: "(1) This is a PWR issue that is not applicable to the ESBWR design."
152	Table 1.11-1, Item B-2	Changed resolution code to (8).
153	Table 1.11-1, Item B-3	Changed resolution code to (3).
154	Table 1.11-1, Item B-4	Added following to resolution: "Covered under TMI Action Plan Item II.E.3.2"
155	Table 1.11-1, Item B-5	Changed resolution code to (4).

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<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
156	Table 1.11-1, Item B-6	Changed resolution to read: "(4, 6, and 8), ESBWR loads and load combinations are addressed in Subsections 3.8.1.3, 3.8.2.3, 3.8.3.3, 3.8.4.3, 3.8.5.3, 3.9.2.2, 3.9.4.3, Appendices 3B and 3F. Resolution covered in Issue 119.1."
157	Table 1.11-1, Item B-7	Changed resolution code to (3).
158	Table 1.11-1, Item B-10	Changed resolution code to (8). Changed "suppression chamber" to "wetwell".
159	Table 1.11-1, Item B-12	Changed resolution to read: "(4) Subsections 6.2.2, 7.3.2, 9.2.7 and 9.4.8."
160	Table 1.11-1, Item B-14	Changed resolution to read: "(6) Covered under Item A-48."
161	Table 1.11-1, Item B-16	Changed resolution to read: "(6) Issue incorporated into Item A-18."
162	Table 1.11-1, Item B-17	Changed "CRTs in the control room are utilized for ..." to "displays are utilized in the control room for ...".
163	Table 1.11-1, Item B-18	Changed resolution to read: "(1, 6) Issue is covered by Item A-43. ESBWR does not obtain ECCS water from containment sumps."
164	Table 1.11-1, Item B-21	Changed resolution code to (3).
165	Table 1.11-1, Item B-23	Changed resolution to read: "(1, 3) The ESBWR is not an LMFBR."
166	Table 1.11-1, Item B-24	Changed resolution to read: "(6) Issue is covered by Item A-46."
167	Table 1.11-1, Item B-28	Changed resolution code to (7).
168	Table 1.11-1, Item B-29	Changed resolution code to (5).
169	Table 1.11-1, Item B-31	Changed resolution code to (3, 5).

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<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
170	Table 1.11-1, Item B-32	Changed resolution to read: "(6) Addressed in the evaluation of Issue 153."
171	Table 1.11-1, Item B-34	Changed resolution to read: "(6) This item is covered under TMI Action Plan Item III.D.3.1, which was resolved with no new requirements being established."
172	Table 1.11-1, Item B-36	Changed second paragraph of resolution to read: "However, this issue, as it applies to normal ventilation system air filtration and adsorption units, is applicable to ESBWR and is considered resolved through compliance with Regulatory Guides 1.52 and 1.140, consistent with the NRC resolution. As noted in Table 1.9-21 and Subsection 14.2.3, the ESBWR Standard Plant design complies with RG 1.140. As noted in Tables 1.9-21 and 1.9-21a for RG 1.52, use of a passive plant-specific physically-based source term eliminates the need for additional systems."
173	Table 1.11-1, Item B-37	Changed resolution code to (5, 7).
174	Table 1.11-1, Items B-38, B-39 and B-40	Changed resolution to read: "(2, 3) Issue to be addressed in site-specific environmental impact statement."
175	Table 1.11-1, Item B-41	Changed resolution to read: "(2, 3) Impact of power plant operation on fishery resources to be addressed in site-specific environmental impact statement."
176	Table 1.11-1, Item B-42	Changed resolution code to (7).
177	Table 1.11-1, Item B-43	Changed resolution to read: "(2, 7) Work completed to date on this issue is published in NUREG/CR-2861. COL applicant may make use of this methodology in preparing their site-specific environmental impact statement."
178	Table 1.11-1, Item B-44	Changed resolution code to (4).
179	Table 1.11-1, Item B-45	Changed resolution to read: "(6) This issue is covered in Item B-2"

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
180	Table 1.11-1, Item B-46	Changed resolution code to (3).
181	Table 1.11-1, Item B-48	Changed resolution to read: "(8) The control rod drives used in the ESBWR design take into account the resolution of this item. See Subsection 4.5.1."
182	Table 1.11-1, Item B-50	Changed resolution to read: "(1, 9) An Operating Basis Earthquake is no longer required to be considered in the licensing process."
183	Table 1.11-1, Item B-51	Changed resolution to read: "(6) This item is covered by Item A-40."
184	Table 1.11-1, Item B-52	Changed resolution to read: "(6) This item is covered by Item A-2."
185	Table 1.11-1, Item B-53	Changed resolution code to (5, 8).
186	Table 1.11-1, Item B-54	Changed resolution to read: "(1) The ESBWR does not have an ice condenser containment."
187	Table 1.11-1, Item B-55	Changed last sentence of resolution to read: "The external and flange seating surfaces of the SRVs are 100% visually inspected whenever any valve is removed for maintenance or bench testing during normal plant shutdowns."
188	Table 1.11-1, Item B-56	Changed resolution to read: "(1) The ESBWR uses passive safety-related systems that do not rely on availability of diesel generators."
189	Table 1.11-1, Item B-57	Changed resolution to read: "(1) This issue is covered in Item A-44."
190	Table 1.11-1, Item B-58	Changed resolution code to (4).
191	Table 1.11-1, Item B-59	Changed resolution to read: "(1) The ESBWR does not contain loops for reactor coolant flow."
192	Table 1.11-1, Item B-60	Changed subsection reference in resolution from 1.2.2.9 to 1.2.2.5.11.
193	Table 1.11-1, Item B-62	Changed resolution code to (3, 5).

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<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
194	Table 1.11-1, Item B-63	Changed subsection reference at end of resolution from 9.1.3.2.2 to 9.1.3.4.
195	Table 1.11-1, Item B-64	Changed resolution to read: "(2, 8) Decommissioning is not part of the design certification process and will be addressed by each ESBWR licensee as their unit approaches the end of its lifetime."
196	Table 1.11-1, Item B-66	Changed "envelope" to "habitability area" in resolution.
197	Table 1.11-1, Item B-67	Changed resolution to read: "(6, 8) One subtask covered under TMI Action Plan Item III.D.2.1. The remaining subtasks for this issue are considered resolved through compliance with Standard Review Plan (SRP) Sections 11.3, 11.4 and 15.7.3. As noted in Table 1.9-11 and 1.9-15, the ESBWR Standard Plant design complies with SRP Sections 11.3, 11.4 and 15.7.3."
198	Table 1.11-1, Item B-68	Changed resolution to read: "(1) There are no recirculation pumps in the ESBWR design."
199	Table 1.11-1, Item B-69	Changed resolution to read: "(6) This issue is covered by TMI Action Plan Item III.D.1.1. See Appendix 1A."
200	Table 1.11-1, Item B-70	Changed resolution to read: "(1) There are no primary coolant pumps in the ESBWR design."
201	Table 1.11-1, Item B-71	Changed resolution to read: "(6) Covered in TMI Action Plan Item III.A.3.1"
202	Table 1.11-1, Item B-73	Changed resolution to read: "(6) This issue is covered in Item C-12."
203	Table 1.11-1, Item C-1	Deleted reference to Table 1.9-23 and spelled out date of May 27, 1980 in resolution. Table 1.9-23 only summarizes referenced NUREGs without making any judgment as to whether the ESBWR design complies with them.

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
204	Table 1.11-1, Item C-2	Changed resolution to read: "(1) The ESBWR design does not require/have a wetwell containment spray. Drywell spray requires manual initiation for ESBWR and is not credited in any analysis."
205	Table 1.11-1, Item C-3	Changed resolution to read: "(6) Addressed in the resolution of Issue A-43."
206	Table 1.11-1, Item C-4	Changed resolution to read: "(8) The ESBWR analyses in Subsection 6.3.3 make use of statistical methodology."
207	Table 1.11-1, Item C-5	Changed resolution to read: "(8) The ESBWR analysis in Subsection 6.3.3 makes use of the improved decay heat model."
208	Table 1.11-1, Item C-6	Changed resolution code to (8).
209	Table 1.11-1, Item C-7	Changed resolution to read: "(1) This is a PWR issue that is not applicable to ESBWR."
210	Table 1.11-1, Item C-10	Changed resolution to read: "(1) The ESBWR design does not require/have a wetwell containment spray. Drywell spray requires manual initiation for ESBWR and is not credited in any analysis."
211	Table 1.11-1, Item C-13	Changed resolution to read: "(6) This issue is addressed in issues A-9, A-17, A 30, A-35, B-56 and B-57."
212	Table 1.11-1, Item C-14	Changed resolution code to (3).
213	Table 1.11-1, Item C-15	Changed resolution code to (3).
214	Table 1.11-1, Item C-16	Changed resolution to read: "(2, 3) Issue to be addressed in site-specific environmental impact statement."
215	Table 1.11-1, Item D-1	Changed resolution to read: "(3) The ESBWR design does not include a seismic scram."
216	Table 1.11-1, Item D-3	Changed resolution to read: "(4) See Subsection 15.4.6 for discussion of this event."

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
217	Table 1.11-1, Issue 5	Changed resolution to read: "(6) Issue addressed under TMI Action Plan Item I.F.1. See Appendix 1A."
218	Table 1.11-1, Issue 6	Changed resolution to read: "(4) See Section 15.4.6"
219	Table 1.11-1, Issue 8	Changed resolution to read: "(1) This is a PWR issue that is not applicable to ESBWR."
220	Table 1.11-1, Issue 9	Changed resolution to read: "(1) There are no reactor coolant pumps in the ESBWR design."
221	Table 1.11-1, Issue 10	Changed "Tip" to "TIP" in description. Changed resolution to read: "(1) There is no Traversing In-Core Probe (TIP) system in ESBWR. The Fixed In-Core Calibration System is applied as described in Appendix 7A."
222	Table 1.11-1, Issue 11	Changed resolution to read: "(6) This issue is covered by Item A-37."
223	Table 1.11-1, Issue 12	Changed resolution to read: "(1) There are no jet pumps in the ESBWR design."
224	Table 1.11-1, Issue 13	Changed resolution to read: "(1) There is no pressurizer in the ESBWR design."
225	Table 1.11-1, Issue 14	Changed resolution to read: "(1) This is a PWR issue that is not applicable to ESBWR."
226	Table 1.11-1, Issue 16	Changed resolution to read: "(6) Issue has been combined with Item C-8"
227	Table 1.11-1, Issue 18	Changed resolution to read: "(1) PWR issue resolved in accordance with TMI Action Plan Item I.C.1."
228	Table 1.11-1, Issue 19	Changed resolution to read: "(6) Issue included in the scope of broader efforts for Item A-47."
229	Table 1.11-1, Issue 22	Changed resolution to read: "(1) This is a PWR issue that is not applicable to ESBWR."
230	Table 1.11-1, Issue 24	Changed resolution to read: "(1) This is a PWR issue. The ESBWR design includes a passive ECCS that has no automatic switchover functions."
231	Table 1.11-1, Issue 26	Changed resolution to read: "(6) This issue is covered under Issue 17."

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
232	Table 1.11-1, Issue 27	Changed resolution to read: "(6) This issue is covered under Item B-17"
233	Table 1.11-1, Issue 28	Changed resolution to read: "(1, 6) PWR issue covered under Item A-49."
234	Table 1.11-1, Issue 29	Changed resolution to read: "(4) Refer to Subsection 3.9.3, ASME Code Class 1, 2 and 3 Components, Component Supports and Core Support Structures for further details."
235	Table 1.11-1, Issue 31	Changed resolution to read: "(1, 6) This PWR issue is considered part of TMI Action Plan Item I.C.1."
236	Table 1.11-1, Issue 32	Changed resolution to read: "(6) This issue has been combined and evaluated with Issue 51."
237	Table 1.11-1, Issue 33	Changed resolution to read: "(1, 6) This PWR issue is covered in Item A-47."
238	Table 1.11-1, Issue 35	Changed resolution code to (9).
239	Table 1.11-1, Issue 37	Changed resolution to read: "(1) There are no steam generators in the ESBWR design."
240	Table 1.11-1, Issue 39	Changed resolution to read: "(1, 6) This issue is addressed in Issue 25."
241	Table 1.11-1, Issue 40	Changed "an SDV" to "a scram discharge volume" in resolution.
242	Table 1.11-1, Issue 41	Changed resolution to read: "(1) In the ESBWR Fine Motion Control Rod Drive (FMCRD) design, described in Section 4.6, the water which scrams the control rod discharges into the reactor vessel and does not require a scram discharge volume, thus eliminating a potential source for common mode scram failure. Therefore, this issue is not applicable to the ESBWR Standard Plant design."
243	Table 1.11-1, Issue 42	Changed resolution to read: "(1) This PWR issue is covered by TMI Action Plan Item I.C.1. The ESBWR is a direct cycle plant."

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
244	Table 1.11-1, Issue 44	Changed resolution to read: "(4, 6) Remaining generic issue covered by Issue 43. No new requirements for other parts of this issue."
245	Table 1.11-1, Issue 45	Changed resolution code to (8).
246	Table 1.11-1, Issue 46	Changed resolution to read: "(6) This issue is covered by Issue 76."
247	Table 1.11-1, Issue 48	Changed resolution to read: "(6) Integrated into the resolution of Issue 128."
248	Table 1.11-1, Issue 49	Changed resolution to read: "(6) Integrated into the resolution of Issue 128."
249	Table 1.11-1, Issue 50	Changed resolution code to (1, 2). Added "Overall reliability of the design of these systems will be addressed as a COL item." to end of resolution statement.
250	Table 1.11-1, Issue 52	Changed resolution to read: "(1) This issue has been combined with Issue 51."
251	Table 1.11-1, Issue 54	Changed resolution to read: "(6) Objectives of issue are met by TMI Action Plan Item II.E.6.1."
252	Table 1.11-1, Issue 56	Changed resolution to read: "(1) There are no steam generators in the ESBWR design."
253	Table 1.11-1, Issue 57	Changed resolution code to (4). Changed CMEB to SPLB in resolution statement.
254	Table 1.11-1, Issue 60	Changed resolution to read: "(6) This issue is addressed as a subtask of Item A 12."
255	Table 1.11-1, Issue 61	Changed resolution code to (4).
256	Table 1.11-1, Issue 62	Changed resolution to read: "(6) This issue was integrated into the resolution of Issue 29."
257	Table 1.11-1, Issue 65	Changed resolution to read: "(1, 6) Incorporated into the resolution of Issue 23. The ESBWR does not rely on component cooling water systems to prevent core melt."

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
258	Table 1.11-1, Issue 66	Changed resolution to read: "(1) There are no steam generators in the ESBWR design."
259	Table 1.11-1, Issue 67	Added new row for introduction to Issue 67. Description: "Steam Generator Staff Actions." Resolution: "(1) There are no steam generators in the ESBWR design, so in general this issue is not applicable. See rows below for discussion of various subtasks."
260	Table 1.11-1, Issue 67.2.1	Changed resolution to read: "(1, 6) This PWR issue was addressed in the resolution of Issue 135."
261	Table 1.11-1, Issue 67.3.1	Changed resolution to read: "(1, 6) This PWR issue is covered by Item A-47 and TMI Action Plan Item I.C.1."
262	Table 1.11-1, Issue 67.3.2	Changed resolution to read: "(1, 6) This PWR issue is addressed in Item A-49."
263	Table 1.11-1, Issue 67.3.4	Changed resolution to read: "(6) Addressed by implementation of TMI Action Plan Item II.F.2. See Appendix 1A for discussion of application of that item to ESBWR."
264	Table 1.11-1, Issue 67.4.1	Changed resolution to read: "(1, 6) The ESBWR has no reactor coolant pumps. Issue covered by TMI Action Plan Item II.K.3(5)."
265	Table 1.11-1, Issue 67.4.2	Changed resolution to read: "(6) This issue is covered by TMI Action Plan Item I.D.1. See Appendix 1A and Chapter 18."
266	Table 1.11-1, Issue 67.4.3	Changed resolution to read: "(6) This issue is covered by TMI Action Plan Item I.C.1. See Appendix 18A."
267	Table 1.11-1, Issue 67.5.1	Changed resolution to read: "(1) The ESBWR design does not include steam generators so the event discussed in this issue cannot occur for ESBWR."
268	Table 1.11-1, Issue 67.5.2	Changed resolution to read: "(1) A steam generator tube rupture event is not possible in an ESBWR."
269	Table 1.11-1, Issue 67.5.3	Changed resolution to read: "(1, 3) The ESBWR is a direct cycle plant with no secondary system to isolate."

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
270	Table 1.11-1, Issue 67.6.0	Changed resolution to read: "(6) This issue is covered by TMI Action Plan Item III.A.3."
271	Table 1.11-1, Issue 67.7.0	Changed resolution to read: "(6) This issue was integrated into the resolution of Issue 135."
272	Table 1.11-1, Issue 67.8.0	Changed resolution to read: "(1, 6) The ESBWR has no steam generator tubes that could become dented. This issue was addressed in the resolution of Issue 135."
273	Table 1.11-1, Issue 67.9.0	Changed first paragraph of resolution to read: "(1, 6) Specific issue deals with reducing pressure after a steam generator tube rupture and thus is not directly applicable to ESBWR. The issue was considered resolved under TMI Action Plan Items I.C.1(2,3) and Issue A-45."
274	Table 1.11-1, Issue 67.10.0	Changed resolution to read: "(1) The ESBWR has no steam generator tubes to inspect."
275	Table 1.11-1, Issue 68	Changed resolution to read: "(1, 6) This PWR issue was integrated into the resolution of Issue 124."
276	Table 1.11-1, Issue 69	Changed resolution to read: "(1, 4) This issue only applies to B&W PWRs."
277	Table 1.11-1, Issue 75	Changed "is" to "are" near middle of resolution.
278	Table 1.11-1, Issue 77	Changed resolution to read: "(6) This issue was integrated into the resolution of Issue A-17."
279	Table 1.11-1, Issue 78	Replaced first paragraph of resolution with: "The Technical Specifications for ESBWR follow the pattern of Standard Tech Spec such as NUREG-1433 and 1434. The ESBWR RCPB design includes the fatigue consideration from thermal cycles established for the operating design life of the reactor pressure vessel."

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
280	Table 1.11-1, Issue 79	Changed resolution to read: "(1, 4) This issue applies specifically to B&W PWRs. The thermal cycles discussed above in response to Issue 78 already consider the maximum RPV cooldown rate for ESBWR."
281	Table 1.11-1, Issue 80	Changed resolution to read: "(1) The ESBWR Containment and layout of CRD hydraulic lines are markedly different from Mark I and II Containments. The concerns associated with this issue have been addressed in the design of the ESBWR Containment and CRD hydraulic lines."
282	Table 1.11-1, Issue 83	Changed <i>control room envelope "Sealed Emergency Operating Area (SEOA)"</i> to "Control Room Habitability Area (CRHA)". Changed SEOA to CRHA in two locations.
283	Table 1.11-1, Issue 84	Changed resolution to read: "(1, 4) This is specifically an issue for CE PWRs. ESBWR design features for providing overpressure protection are discussed in Subsections 5.2.2 and 5.4.13."
284	Table 1.11-1, Issue 86	Changed second sentence of resolution to read: "As noted in Subsection 5.2.3.4.1, the ESBWR Standard Plant design complies with NUREG-0313, Rev. 2." Deleted second paragraph of resolution.
285	Table 1.11-1, Issue 87	Changed resolution to read: "(1) There is no HPCI system in the ESBWR design."
286	Table 1.11-1, Issue 89	Changed resolution to read: "(9 for existing plants only) This issue will be considered during detailed design of Class 1 piping for ESBWR."
287	Table 1.11-1, Issue 91	Changed resolution to read: "(4) The ESBWR design includes nonsafety-related Standby Diesel Generators instead of safety-related Emergency Diesel Generators."
288	Table 1.11-1, Issue 93	Changed resolution to read: "(1) The ESBWR does not include Auxiliary Feedwater Pumps or any other pumps that might experience steam binding."

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
289	Table 1.11-1, Issue 94	Changed resolution to read: "(1, 8) PWR issue. ESBWR design features for providing overpressure protection are discussed in Subsections 5.2.2 and 5.4.13."
290	Table 1.11-1, Issue 96	Changed resolution to read: "(1, 6) PWR issue that has been integrated into resolution of Issue 105."
291	Table 1.11-1, Issue 97	Changed resolution to read: "(1) This is a PWR issue that is not applicable to ESBWR."
292	Table 1.11-1, Issue 99	Changed resolution to read: "(1) This is a PWR issue that is not applicable to ESBWR."
293	Table 1.11-1, Issue 100	Changed resolution to read: "(1) This is a PWR issue that is not applicable to ESBWR."
294	Table 1.11-1, Issue 103	Changed "1 foot" to "0.3 m (1 foot)"
295	Table 1.11-1, Issue 104	Changed resolution to read: "(1) This is a PWR issue that is not applicable to the ESBWR design."
296	Table 1.11-1, Issue 105	Changed 9.1.3.1.3 to 9.1.3.4 in resolution. Changed "System" to "Systems" and "BWRs" to "LWRs" in title of GSI 105 in resolution to match actual title.
297	Table 1.11-1, Issue 106	Changed second sentence of resolution to read: "Table 1.9-9 summarizes ESBWR Standard Plant design compliance with SRP Section 9.5.1, and notes some differences to acceptance criteria along with references to Subsections where the differences are discussed."
298	Table 1.11-1, Issue 107	Changed resolution to read: "(9 for existing plants only) This issue will be considered during detailed design of the ESBWR electrical systems. See Chapter 8."
299	Table 1.11-1, Issue 108	Changed resolution code to (9).
300	Table 1.11-1, Issue 112	Changed resolution to read: "(1) This is a Westinghouse PWR issue that is not applicable to ESBWR."

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<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
301	Table 1.11-1, Issue 113	Changed resolution to read: "(4) Regulatory Guide may eventually be developed addressing this issue for new plants."
302	Table 1.11-1, Issue 114	Changed resolution to read: "(6) This issue is addressed in the resolution of Issue A-46."
303	Table 1.11-1, Issue 115	Changed resolution to read: "(1, 4) Issue is specific to Westinghouse PWRs."
304	Table 1.11-1, Issue 118	<p>Changed resolution to read: "(1) Inspection of a PWR prestressed concrete containment structure revealed that three lower vertical tendon anchor heads were broken. The failures appeared to have been caused by hydrogen stress cracking. Hydrogen is liberated by zinc in the presence of water. Quantities of water ranging from a few ounces to about 1.5 gallons have been found in the grease caps.</p> <p>The ESBWR primary containment structure is a reinforced concrete design. Therefore, this GSI is not applicable to the ESBWR Standard Plant design."</p>
305	Table 1.11-1, Issue 119.1	Changed resolution to read: "(8) This issue is considered resolved through compliance with SRP Sections 3.6.1 and 3.6.2, consistent with the NRC resolution. As noted in Table 1.9-3, the ESBWR Standard Plant design complies with SRP Sections 3.6.1 and 3.6.2."
306	Table 1.11-1, Issue 119.3	Changed resolution to read: "(1) The OBE is not part of the licensing basis for ESBWR."
307	Table 1.11-1, Issue 119.4	Changed resolution to read: "(1, 8) This issue primarily addresses materials for use in recirculation piping in BWRs. The ESBWR design does not include recirculation lines."
308	Table 1.11-1, Issue 120	Changed "1977" to "1987" and "provides" to "provide" in resolution statement.
309	Table 1.11-1, Issue 122.1	Changed resolution to read: "See subissues below"

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
310	Table 1.11-1, Issue 122.1a	Changed resolution to read: "(1, 6) Integrated into the resolution of Issue 124. The ESBWR design does not rely on the reopening of isolation valves to remove decay heat."
311	Table 1.11-1, Issue 122.1b	Changed resolution to read: "(1, 6) Addressed initially by Issue 122.2, but later integrated into resolution of Issue 124. ESBWR uses Isolation Condensers for this function, which run continuously once they have been initiated."
312	Table 1.11-1, Issue 122.1c	Changed resolution to read: "(1, 6) Integrated into the resolution of Issue 124, which only applies to PWRs."
313	Table 1.11-1, Issue 122.2	Corrected spelling of "initiating" in description. Changed resolution to read: "(1, 4) The ESBWR design does not rely upon feed-and-bleed cooling."
314	Table 1.11-1, Issue 122.3	Changed resolution code to (3).
315	Table 1.11-1, Issue 123	Added "Suggested by the Davis-Besse Incident of June 9, 1985" to description. Changed resolution to read: "(3, 6) Safety concerns associated with this issue are addressed in the resolution of Issues A-17, A-44, A 45 and A-47."
316	Table 1.11-1, Issue 125.I.2.a	Changed resolution to read: "(1, 6) This issue is covered in Issue 70. The ESBWR does not have PORVs."
317	Table 1.11-1, Issue 125.I.2.b	Changed resolution to read: "(1, 6) This issue is covered in Issue 70. The ESBWR does not have PORVs."
318	Table 1.11-1, Issue 125.I.2.c	Changed resolution to read: "(1, 3) The ESBWR does not have PORVs."
319	Table 1.11-1, Issue 125.I.2.d	Changed resolution to read: "(1, 6) This issue is covered in Issue A-45. The ESBWR does not have PORVs."
320	Table 1.11-1, Issue 125.I.3	Changed resolution to read: "(4, 6) This issue is addressed in the resolution of TMI Action Plan Item I.D.2. See Appendix 1A."

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<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
321	Table 1.11-1, Issue 125.I.4	Changed resolution to read: "(3, 6) This issue is addressed in the resolution of TMI Action Plan Item I.A.4.2(4). See Appendix 1A."
322	Table 1.11-1, Issue 125.I.5	Changed resolution to read: "(3, 6) An alternative approach to address this issue is assessed as part of Issue 145."
323	Table 1.11-1, Issue 125.I.6	Changed resolution to read: "(3, 6) This issue is addressed by IE Bulletin 85 03 and in the resolution of TMI Action Plan Item II.E.6.1."
324	Table 1.11-1, Issue 125.I.7.a	Changed resolution to read: "(3, 6) This issue is addressed by Issue HF2.1."
325	Table 1.11-1, Issue 125.I.7.b	Changed resolution to read: "(3, 6) This issue is addressed by Issue HF3.1."
326	Table 1.11-1, Issue 125.I.8	Changed resolution to read: "(3, 6) This issue is a duplication of the concern addressed in TMI Action Plan Item III.A.3.4."
327	Table 1.11-1, Issue 125.II.1	Changed resolution to read: "(1) See rows below. The ESBWR has no Auxiliary Feedwater System so this group of items is generally not applicable."
328	Table 1.11-1, Issue 125.II.1.a	Changed resolution to read: "(1, 3, 6) This issue is the same as Issue 124."
329	Table 1.11-1, Issue 125.II.1.b	Changed resolution to read: "(1, 6) This issue is covered by Issue 124."
330	Table 1.11-1, Issue 125.II.1.d	Changed resolution to read: "(1, 3, 6) This issue is covered in Issue 124 and applies specifically to auxiliary feedwater systems in PWRs designed by B&W. The ESBWR design does not contain an auxiliary feedwater system."
331	Table 1.11-1, Issue 125.II.3	Changed resolution to read: "(3, 6) This issue is covered by Issues 125.II.1.b and 125.II.7."
332	Table 1.11-1, Issue 125.II.4	Changed resolution to read: "(1, 3) The ESBWR design does not contain a once-through steam generator."
333	Table 1.11-1, Issue 125.II.7	Changed resolution to read: "(1, 4) The ESBWR design does not include a steam generator."

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334	Table 1.11-1, Issue 125.II.8	Changed resolution to read: "(3, 6) This issue is covered under Issue 122.2."
335	Table 1.11-1, Issue 125.II.10	Changed resolution to read: "(3, 6) This issue is addressed in Issue HF4.4."
336	Table 1.11-1, Issue 125.II.11	Changed resolution to read: "(3, 6) This issue is addressed in Issue 124 and in revisions to PWR Emergency Procedure Guidelines."
337	Table 1.11-1, Issue 125.II.12	Changed resolution to read: "(3, 6) This issue is addressed in Issue HF3.1."
338	Table 1.11-1, Issue 125.II.13	Changed resolution to read: "(3, 6) This issue is partially addressed by the resolution of Issue HF5.1."
339	Table 1.11-1, Issue 126	Changed resolution to read: "(1) This issue is specific to Main Steam Safety Valves in PWRs."
340	Table 1.11-1, Issue 128	Changed IE to 1E in four locations.
341	Table 1.11-1, Issue 129	Changed resolution code to (3).
342	Table 1.11-1, Issue 130	Changed resolution to read: "(1) The ESBWR Standard Plant contains only one unit. The ESBWR design also does not contain Essential Service Water pumps."
343	Table 1.11-1, Issue 131	Changed resolution to read: "(1) This is a Westinghouse PWR issue that is not applicable to ESBWR."
344	Table 1.11-1, Issue 133	Inserted missing word "on" in description. Changed resolution code to (5).
345	Table 1.11-1, Issue 136	Changed resolution code to (5).
346	Table 1.11-1, Issue 139	Changed resolution code to (8).
347	Table 1.11-1, Issue 141	Changed resolution to read: "(1, 3) The ESBWR has no steam generator tubes that could rupture during a LOCA."

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Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
348	Table 1.11-1, Issue 142	Changed IE to 1E in resolution. Added "See Chapter 7 for further details." to resolution.
349	Table 1.11-1, Issue 146	Changed resolution to read: "(4) Resolution of this issue recommends actions for new plants that could lead to updates to some SRP Sections."
350	Table 1.11-1, Issue 147	Changed resolution code to (5).
351	Table 1.11-1, Issue 148	Changed resolution code to (5).
352	Table 1.11-1, Issue 151	Changed resolution to read: "(1) The ESBWR is a passive design and does not have Recirculation Pumps. The ESBWR response to ATWS events is discussed in Chapter 15."
353	Table 1.11-1, Issue 155.2	Added as new item. Description: "Establish Licensing Requirements for Non-Operating Facilities". Resolution code: (5).
354	Table 1.11-1, Issue 155.3	Added as new item. Description: "Improve Design Requirements for Nuclear Facilities". Resolution code: (3).
355	Table 1.11-1, Issue 155.4	Added as new item. Description: "Improve Criticality Calculations". Resolution code: (3).
356	Table 1.11-1, Issue 155.5	Added as new item. Description: "More Realistic Severe Accident Scenario". Resolution code: (3).
357	Table 1.11-1, Issue 155.6	Added as new item. Description: "Improve Decontamination Regulations". Resolution code: (3).
358	Table 1.11-1, Issue 155.7	Added as new item. Description: "Improve Decommissioning Regulations". Resolution code: (3).
359	Table 1.11-1, Issue 156.3.1.1	Changed resolution to read: "(3, 6) Safety concerns addressed in resolution of Issue A-45."
360	Table 1.11-1, Issue 156.3.1.2	Changed resolution to read: "(3, 6) Safety concerns addressed in resolution of Issue A-45."
361	Table 1.11-1, Issue 156.3.3	Changed resolution to read: "(3, 6) Covered by Issues 83, 106, 136, 143 and 148."

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<b>Item</b>	<b>Location</b> (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	<b>Description of Change</b>
362	Table 1.11-1, Issue 156.3.4	Changed resolution to read: "(3, 6) Safety concern addressed in resolution of Issue 105."
363	Table 1.11-1, Issue 156.3.5	Changed resolution to read: "(1, 6) Covered in the resolution of Issue 24. There is no ECCS switchover function in the ESBWR."
364	Table 1.11-1, Issue 156.3.6.1	Changed resolution to read: "(3, 6) Safety concern addressed in resolution of Issues A-44, 128 and B-56."
365	Table 1.11-1, Issue 156.3.8	Changed resolution to read: "(1, 3, 6) Systems of potential concern already addressed by Issues 43, 130, 153 and A-44. ESBWR is a single unit plant with no shared systems."
366	Table 1.11-1, Issue 156.4.1	Added "Isolation" to description. Changed resolution to read: "(4) Addressed through satisfying the provisions of IEEE 279-1971, which is achieved through compliance with Regulatory Guide 1.153. As indicated in Table 1.9-21, the ESBWR complies with Regulatory Guide 1.153. See Subsection 7.1.2.2 for further details."
367	Table 1.11-1, Issue 156.4.2	Changed resolution to read: "(4, 6) Covered by ASME Code requirements in accordance with 10 CFR 50.55(a) and the resolution of Issue 120."
368	Table 1.11-1, Issue 157	Changed resolution to read: "(4) Resolution is specific to the type of containment design. Supplement 3 of Generic Letter 88-20 requested individual licensees of Mark II and Mark III containments to consider insights and improvements identified in the Containment Improvement Program, but did not identify any generic improvements. The ESBWR containment design, as described in Section 6.2, differs from those considered as part of this issue."
369	Table 1.11-1, Issue 161	Changed "safety" to "Safety" in description.
370	Table 1.11-1, Issue 162	Changed resolution to read: "(1, 3) The ESBWR is a single unit plant design with no shared systems."

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371	Table 1.11-1, Issue 164	Changed resolution to read: "(3) Safety concern addressed in Draft Regulatory Guide DG-1025, which has since been issued as Regulatory Guide 1.190. As indicated in Table 1.9 21, the ESBWR complies with Regulatory Guide 1.190."
372	Table 1.11-1, Issue 166	Changed resolution to read: "(4) See also related Issue 190."
373	Table 1.11-1, Issue 172	Changed resolution to read: "(6) This issue is addressed through resolution of Issue 106."
374	Table 1.11-1, Issue 173.B	Changed resolution to read: "(1) Not applicable to the ESBWR Design Certification Process."
375	Table 1.11-1, Issue 177	Changed resolution code to (8).
376	Table 1.11-1, Issue 178	Changed resolution code to (5).
377	Table 1.11-1, Issue 180	Changed resolution code to (5).
378	Table 1.11-1, Issue 183	Changed resolution code to (5).
379	Table 1.11-1, Issue 184	Changed resolution code to (7).
380	Table 1.11-1, Issue 185	Changed resolution to read: "(1) This is a PWR issue that is not applicable to ESBWR."
381	Table 1.11-1, Issue 186	Changed resolution to read: "See Section 9.1 and Subsections 15.4.1, "Fuel Handling Accident," and 15.4.10, "Spent Fuel Cask Drop Accident.""
382	Table 1.11-1, Issue 189	Added "and Mark III" to description. Added "The ESBWR Containment differs from the Mark III Containment in that it is inerted to prevent hydrogen combustion." to resolution.
383	Table 1.11-1, Issue 193	Changed resolution to read: "(1) The ESBWR does not have an ECCS pump, and does not take ECCS water from the suppression pool."

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384	Table 1.11-1, Issue 195	Deleted "Foreign" from description. Changed to upper case first letters for "Radiolytic Gas Detonation" in resolution.
385	Table 1.11-1, Issue HF1.2	Added as new item. Description: "Engineering Expertise on Shift". Resolution code: (4).
386	Table 1.11-1, Issue HF1.3	Added as new item. Description: "Guidance on Limits and Conditions of Shift Work". Resolution code: (4).
387	Table 1.11-1, Issue HF2.1	Added as new item. Description: "Evaluate Industry Training". Resolution code: (5).
388	Table 1.11-1, Issue HF2.2	Added as new item. Description: "Evaluate INPO Accreditation". Resolution code: (5).
389	Table 1.11-1, Issue HF2.3	Added as new item. Description: "Revise SRP Section 13.2". Resolution code: (5).
390	Table 1.11-1, Issue HF3.1	Added as new item. Description: "Develop Job Knowledge Catalog". Resolution code: (5).
391	Table 1.11-1, Issue HF3.2	Added as new item. Description: "Develop License Examination Handbook". Resolution code: (5).
392	Table 1.11-1, Issue HF3.3	Added as new item. Description: "Develop Criteria for Nuclear Power Plant Simulators". Resolution: "(6) This issue is covered in TMI Action Plan Item I.A.4.2(4). See Appendix 1A."
393	Table 1.11-1, Issue HF3.4	Added as new item. Description: "Examination Requirements". Resolution: "(6) This issue is covered in TMI Action Plan Item I.A.2.6(1)."
394	Table 1.11-1, Issue HF3.5	Added as new item. Description: "Develop Computerized Exam System". Resolution code: (5).
395	Table 1.11-1, Issue HF4.1	Added as new item. Description: "Inspection Procedure for Upgraded Emergency Operating Procedures". Resolution code: (4).
396	Table 1.11-1, Issue HF4.2	Added as new item. Description: "Procedures Generation Package Effectiveness Evaluation". Resolution code: (5).

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397	Table 1.11-1, Issue HF4.3	Added as new item. Description: "Criteria for Safety-Related Operator Actions". Resolution: "(6) This item is covered in Issue B-17."
398	Table 1.11-1, Issue HF4.4	Changed "Updating" to "Upgrading" in description. Deleted descriptive text from resolution because it is not applicable to this issue.
399	Table 1.11-1, Issue HF4.5	Added as new item. Description: "Application of Automation and Artificial Intelligence". Resolution: "(6) This item is covered in Item HF5.2."
400	Table 1.11-1, Issue HF5.3	Added as new item. Description: "Evaluation of Operational Aid Systems". Resolution: "(6) This issue is covered in Item HF5.2."
401	Table 1.11-1, Issue HF5.4	Added as new item. Description: "Computers and Computer Displays". Resolution: "(6) This issue is covered in Item HF5.2."
402	Table 1.11-1, Issue HF6.1	Added as new item. Description: "Develop Regulatory Position on Management and Organization". Resolution: "(6) This item is covered in TMI Action Plan Items I.B.1.1(1, 2, 3 and 4)."
403	Table 1.11-1, Issue HF6.2	Added as new item. Description: "Regulatory Position on Management and Organization at Operating Reactors". Resolution: "(6) This item is covered in TMI Action Plan Items I.B.1.1(1, 2, 3 and 4)."
404	Table 1.11-1, Issue HF7.1	Added as new item. Description: "Human Error Data Acquisition". Resolution code: (5).
405	Table 1.11-1, Issue HF7.2	Added as new item. Description: "Human Error Data Storage and Retrieval". Resolution code: (5).
406	Table 1.11-1, Issue HF7.3	Added as new item. Description: "Reliability Evaluation Specialist Aids". Resolution code: (5).
407	Table 1.11-1, Issue HF7.4	Added as new item. Description: "Safety Event Analysis Results Application". Resolution code: (5).
408	Table 1.11-1, Issue HF8	Added as new item. Description: "Maintenance and Surveillance Program". Resolution code: (4).