

## ESBWR DCD CHAPTER 15

### 26A6642BP Revision 4 to Revision 5 Change List

Item	Location	Description of Change
1.	Entire Chapter	Global chapter editorial changes to: correct misspelling and grammar; spell out or integrate acronyms where appropriate; and dual dimensioning added and tracked for consistency.
2.	S15.0, 1 <sup>st</sup> para, last sentence	Replaced “the criteria in Appendix 4B.5” with “criteria 2 and 3 of Table 4B-1 and the criterion in Appendix 4B.6” in response to RAI 15.0-30, MFN 08-195.
3.	S15.0, 5 <sup>th</sup> para, 1 <sup>st</sup> sentence	Added “guidance provided in” and deleted “acceptance criteria” because the SRP is a guidance document.
4.	S15.0.1, 5 <sup>th</sup> para, last sentence	Reworded to clarify basis for AOO frequency.
5.	S15.0.1.2(1)b. and S15.0.1.2(4)	Changed applicable regulation from “10 CFR 50.34” to “10 CFR 52.47.”
6.	S15.0.2, 1 <sup>st</sup> para, new 3 <sup>rd</sup> bullet	Added another possible initiating cause to the events to be evaluated consistent with changes to Section 15.2.
7.	S15.0.2, 5 <sup>th</sup> para 2 <sup>nd</sup> and 3 <sup>rd</sup> sentence	Changed “Selected Control Rod Run-in” to “SCRRRI and SRI” and clarified location of results of potentially limiting events.
8.	S15.0.2, 5 <sup>th</sup> para, 3 <sup>rd</sup> sentence	Corrected reference to potentially limiting events.
9.	S15.0.2, 7 <sup>th</sup> para, second bullet	Changed “Main Steamline Break Outside Containment” to “Reactor Water Cleanup/Shutdown Cooling “RWCU/SDC” System Line Failure Outside Containment” based on results in Section 15.4.
10.	S15.0.2, 9 <sup>th</sup> para	Deleted requirement to re-evaluate the overpressure protection event for each reload based analysis in Subsection 15.5.1.
11.	S15.0.3.1, 1 <sup>st</sup> para, 4 <sup>th</sup> sentence	Deleted reference to technical specification safety limit consistent with the response to RAI 15.0-16 S01, MFN 07-071 S01.
12.	S15.0.3.1, 4 <sup>th</sup> para, 3 <sup>rd</sup> sentence	Deleted third sentence because TS safety limit is redundant to ASME code criterion.

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13.	S15.0.3.2, 2 <sup>nd</sup> para, 1 <sup>st</sup> sentence	Changed applicable regulation from “10 CFR 50.34(a)(1)” to “10 CFR 52.47.”
14.	S15.0.3.3, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence and 3 <sup>rd</sup> para, 1 <sup>st</sup> sent	Changed applicable regulation from “10 CFR 50.34(a)(1)” to “10 CFR 52.47.”
15.	S15.0.3.4.1, 1 <sup>st</sup> para	Deleted requirement to re-evaluate the overpressure protection event for each reload based analysis in Subsection 15.5.1.
16.	S15.0.3.4.1, 4 <sup>th</sup> para	Deleted redundant acceptance criterion for overpressure protection and changed “criteria” to “criterion.”
17.	S15.0.3.4.5, 1 <sup>st</sup> para, 2 <sup>nd</sup> bullet	Changed "Stable Condition" to "Stable Shutdown" to be consistent with technical specifications terminology.
18.	S15.0.3.4.6, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Deleted reference to Appendix R and added “Regulatory Guide 1.189.”
19.	S15.0.3.4.6, 1 <sup>st</sup> para, 3 <sup>rd</sup> and 4 <sup>th</sup> bullet	Changed time requirement for achieving cold shutdown based upon Regulatory Guide 1.189 and to be consistent with technical specifications terminology.
20.	S15.0.7, References 15.0-8 and 15.0-9	Corrected reference dates.
21.	T15.0-1	Changed applicable regulation for radiological analyses from “10 CFR 50.34(a)(1)” to “10 CFR 52.47.”
22.	T15.0-2	Added, “Control Rod Withdrawal Error During Startup” consistent with change to Section 15.2.
23.	T15.0-2	Added “Control Rod Withdrawal Error During Power Operation” event in response to RAI 15.3-33, MFN 07-582.
24.	T15.0-2	Changed “Loss of Feedwater Heating With Failure of Selected Control Rod Run-in” to “Loss of Feedwater Heating With Failure of SCRRI and SRI” consistent with changes in Subsection 15.3.1.
25.	T15.0-2	Added “Flow” in response to RAI 4.3-13 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure, MFN 08-387.

Item	Location	Description of Change
26.	T15.0-2	Added “With Failure of Control Rod Block” to infrequent event “Control Rod Withdrawal Error During Startup” consistent with change to Section 15.2.
27.	T15.0-2	Changed “Control Rod Withdrawal Error During Power Operation” to “Control Rod Withdrawal Error During Power Operation with ATLM Failure” in response to RAI 15.3-33, MFN 07-582.
28.	T15.0-2	Corrected table to associate inadvertent SDC function operation with SRP 15.1.1-15.1.4.
29.	T15.0-2	Added event classification and relevant SRPs for the control rod drop accident.
30.	T15.0-2	Added 3 <sup>rd</sup> note and reference to “MSIV Closure...” event classification in response to RAI 16.2-119 S01, MFN 07-305 S01.
31.	T15.0-3, 1 <sup>st</sup> bullet	Deleted redundant AOO pressure acceptance criterion.
32.	T15.0-3, 2 <sup>nd</sup> bullet	Deleted reference to technical specification safety limit consistent with the response to RAI 15.0-16 S01, MFN 07-071 S01.
33.	T15.0-7	Changed “Loss of Feedwater Heating With Failure of Selected Control Rod Run-in” to “Loss of Feedwater Heating With Failure of SCRRI and SRI” consistent with changes in Subsection 15.3.1.
34.	T15.0-7	Corrected entries for radiological acceptance criteria based on applicable regulations and regulatory guidance and changed notes to clarify.
35.	T15.0-7	Added “With Failure of Control Rod Block” to infrequent event “Control Rod Withdrawal Error During Startup” to distinguish from new event added in Section 15.2.
36.	T15.0-7	Changed “Control Rod Withdrawal Error During Power Operation” to “Control Rod Withdrawal Error During Power Operation with ATLM Failure” in response to RAI 15.3-33, MFN 07-582.
37.	T15.0-8	Added “Control Rod Withdrawal Error During Startup” consistent with change to Section 15.2
38.	T15.0-8	Added “Control Rod Withdrawal Error During Power Operation” analysis in response to RAI 15.3-33, MFN 07-582.

Item	Location	Description of Change
39.	T15.0-8	Changed “Loss of Feedwater Heating With Failure of Selected Control Rod Run-in” to “Loss of Feedwater Heating With Failure of SCRRI and SRI” consistent with changes in Subsection 15.3.1.
40.	T15.0-8	Added “Flow” in response to RAI 4.3-13 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure, MFN 08-387.
41.	T15.0-8	Added “With Failure of Control Rod Block” to “Control Rod Withdrawal Error During Startup” to distinguish from new event added in Section 15.2.
42.	T15.0-8	Changed “Control Rod Withdrawal Error During Power Operation” to “Control Rod Withdrawal Error During Power Operation with ATLM Failure” in response to RAI 15.3-33, MFN 07-582.
43.	T15.0-8	Added control rod drop analysis codes consistent with the response to RAI 4.6-23 S02, MFN 08-350.
44.	T15.0-8	Added feedwater line break outside containment analysis codes consistent with the response to RAI 4.6-23 S02, MFN 08-350.
45.	T15.0-8	Changed anticipated transients without scram safety analysis and analysis code to be consistent with change to table notes.
46.	T15.0-8, 1 <sup>st</sup> and 2 <sup>nd</sup> notes	Deleted code platform information and corrected fuel gap thermal conductivity code.
47.	T15.1-3, T15.1-5, T15.1-6, and T15.1-7	Changed to add “(at High Power)” to the Generator Load Rejection with Total Turbine Bypass Failure and the Turbine Trip with Total Turbine Bypass Failure events.
48.	T15.1-3	Added “Control Rod Withdrawal Error During Power Operation” analysis in response to RAI 15.3-33, MFN 07-582.
49.	T15.1-3	Changed “Control Rod Withdrawal Error During Power Operation” to “Control Rod Withdrawal Error During Power Operation with ATLM Failure” in response to RAI 15.3-33, MFN 07-582.
50.	T15.1-3	Changed to add "and SRI" to event title “Loss of Feedwater Heating with Failure of SCRRI” to be consistent with change to Subsection 15.3.1

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51.	T15.1-3	Added "Flow" in response to RAI 4.3-13 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure, MFN 08-387.
52.	T15.1-3	Added "... With Failure of Control Rod Block" to "Control Rod Withdrawal Error During Startup" consistent with change to Section 15.2.
53.	T15.1-3	Added "Control Rod Withdrawal Error During Startup" consistent with change to Section 15.2
54.	T15.1-5	Changed "FW Runback – L8" to "FW Isolation Signals" to incorporate design changes.
55.	T15.1-5	Added "Control Rod Withdrawal Error During Power Operation" analysis in response to RAI 15.3-33, MFN 07-582.
56.	T15.1-5	Added "X" to "Inadvertent Isolation Condenser Initiation" and "Runout of One Feedwater Pump" to accurately identify required system.
57.	T15.1-5	Changed "Control Rod Withdrawal Error During Power Operation" to "Control Rod Withdrawal Error During Power Operation with ATLM Failure" in response to RAI 15.3-33, MFN 07-582.
58.	T15.1-5	Added "With Failure of Control Rod Block" to "Control Rod Withdrawal Error During Startup" consistent with change to Section 15.2.
59.	T15.1-5	Added reference to Note 1 to several systems/functions. Added "Feed water Control System (Level Controller)" to matrix all in response to RAI 15.0-2 S01, MFN 06-331 S01.
60.	T15.1-5	Added reference to Note 1 to: "ATWS – Feedwater Flow Runback" in response to RAI 15.0-2 S02, MFN 06-331 S02.
61.	T15.1-5	Added reference to Note 1 to the following: "RWCU/SDC Operation" and "ATWS – ADS Inhibition"
62.	T15.1-5	Added an "X" to "LOCA Inside Containment" due to design change.
63.	T15.1-5	Added note to Control Rod Drop Accident "Note: Safety Related features of FMCRD System prevent Rod Drop."
64.	T15.1-5	Added "Control Rod Withdrawal Error During Startup" consistent with change to Section 15.2

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65.	T15.1-5	Changed event response for ATWS and Safe Shutdown Fire in response to RAI 15.0-2 S01, MFN 06-331 S01.
66.	T15.1-5	Replaced “High Radiation MCR Recirculation” with “High Radiation MCR EFU Initiation”
67.	T15.1-5	Changed to add "and SRI" to event title “Loss of Feedwater Heating with Failure of SCRRI” to be consistent with change to Subsection 15.3.1
68.	T15.1-5	Added "Flow" in response to RAI 4.3-13 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure, MFN 08-387.
69.	T15.1-5	Deleted “TBV Closure - Low-low condenser vacuum” action from the Loss of Condenser Vacuum and Loss of Non-Emergency AC Power to Station Auxiliaries events in response to RAI 15.0-2 S01, MFN 06-331 S01.
70.	T15.1-5	Changed event matrix to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4.
71.	T15.1-6, last column	Added “RWM” to last column in response to RAI 15.0-2 S02, MFN 06-331 S02.
72.	T15.1-6	Added “Control Rod Withdrawal Error During Startup” consistent with change to Section 15.2
73.	T15.1-6	Added "Flow" in response to RAI 4.3-13 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure, MFN 08-387.
74.	T15.1-6	Changed “Rod Block – SRNM Period or ATLM Parameter Exceeded” to “Rod Block – SRNM Period or ATLM Parameter Exceeded or MRBM Parameter Exceeded” in response to RAI 15.3-33, MFN 07-582.
75.	T15.1-6	Added “Control Rod Withdrawal Error During Power Operation” analysis in response to RAI 15.3-33, MFN 07-582.
76.	T15.1-6	Added last parameter to “Control Rod Withdrawal During Refueling” in response to RAI 15.0-2 S02, MFN 06-331 S02..
77.	T15.1-6	Added “With Failure of Control Rod Block” to “Control Rod Withdrawal Error During Startup” consistent with change to Section 15.2

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78.	T15.1-6	Changed “Control Rod Withdrawal Error During Power Operation” to “Control Rod Withdrawal Error During Power Operation with ATLM Failure” in response to RAI 15.3-33, MFN 07-582.
79.	T15.1-6	Changed to add "and SRI" to event title and credit STPT for the Loss of Feedwater Heating With Failure of SCRRI and SRI consistent with change to Subsection 15.3.1
80.	T15.1-6	Added reference to Note 1 to Rod Block. Added note 1 all in response to RAI 15.0-2 S01, MFN 06-331 S01.
81.	T15.1-6	Added note to Control Rod Drop Accident “Note: Safety Related features of FMCRD System prevent Rod Drop.”
82.	T15.1-6	Added that Control Rod Drop Accident assumes RWM functions in response to RAI 15.0-2 S02, MFN 06-331 S02.
83.	T15.1-7	Added “With Failure of Control Rod Block” to “Control Rod Withdrawal Error During Startup” consistent with change to Section 15.2
84.	T15.1-7	Added “Control Rod Withdrawal Error During Startup” consistent with change to Section 15.2.
85.	T15.1-7	Added “Control Rod Withdrawal Error During Power Operation” analysis in response to RAI 15.3-33, MFN 07-582.
86.	T15.1-7	Changed “Control Rod Withdrawal Error During Power Operation” to “Control Rod Withdrawal Error During Power Operation with ATLM Failure” in response to RAI 15.3-33, MFN 07-582.
87.	T15.1-7	Changed to add "and SRI" to event title “Loss of Feedwater Heating with Failure of SCRRI” to be consistent with change to Subsection 15.3.1
88.	T15.1-7	Added "Flow” in response to RAI 4.3-13 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure, MFN 08-387.
89.	T15.1-7	Changed subsection Reference paragraph for “Control Rod Withdrawal Error During Startup” for clarification.
90.	F15.1-2	Deleted FWCS. Revised RCIS to DPS/ATLM to more closely reflect system configuration.

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91.	F15.1-4 and F15.1-6	Changed RCIS to DPIS to more closely reflect system configuration.
92.	F15.1-11	Changed figure to add equalizing line function to illustrate proper system configuration.
93.	F15.1-17	Changed to add "and SRI" to event title "Loss of Feedwater Heating with Failure of SCRRI" to be consistent with change to Subsection 15.3.1
94.	F15.1-17	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4.
95.	F15.1-18	Added "Flow" to title and figure in response to RAI 4.3-13 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure, MFN 08-387.
96.	F15.1-18	Removed P block for Turbine Trip Signal to more closely reflect system configuration.
97.	F15.1-21	Added information to "Generator Load Rejection with Total Bypass Failure" to indicate "at High Power."
98.	F15.1-21	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4.
99.	F15.1-22	Added information to "Turbine Trip with Total Bypass Failure" to indicate "at High Power."
100.	F15.1-22	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4.
101.	F15.1-23	Replaced figure in response to RAI 15.0-2 S02, MFN 06-331 S02.
102.	F15.1-24a, b	Replaced Figure 15.1-24 with 15.1-24a and 24b consistent with changes in Sections 15.2 and 15.3.
103.	F15.1-25a.	Added figure in response to RAI 15.3-33, MFN 07-582.
104.	F15.1-25a	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4.
105.	F15.1-30	Changed ADS & DPV to ADS to more closely reflect system configuration.

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106.	F15.1-31	Changed “ADS & DPV” to “ADS” to more closely reflect system configuration.
107.	F15.1-32	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4.
108.	F15.1-33	Changed to indicate High Radiation in Reactor “Building” to more closely reflect system configuration.
109.	F15.1-34a	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4. Revised ADS & DPV to ADS to more closely reflect system configuration.
110.	F15.1-34b	Added “Feedwater Isolation Signals” to reflect design change.
111.	F15.1-35a	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4. Revised ADS & DPV to ADS to more closely reflect system configuration.
112.	F15.1-37a	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4. Revised ADS & DPV to ADS to more closely reflect system configuration.
113.	F15.1-38a	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4.
114.	F15.1-38a	Changed “MSIV Pressure” to “MSIV Closure” to more closely reflect system configuration. Changed “ADS & DPV” to “ADS” to more closely reflect system configuration.
115.	F15.1-39a	Changed figure to take credit for actuation of MCR EFU on high radiation to be consistent with changes to Sections 15.3 and 15.4. Revised ADS & DPV to ADS to more closely reflect system configuration.
116.	F15.1-44a	Changed figure in response to RAI 15.0-2 S01, MFN 06-331 S01.
117.	F15.1-45a	Changed “ADS & DPV” to “ADS” to more closely reflect system configuration.
118.	F15.1-46	Changed figure in response to RAI 15.0-2 S01, MFN 06-331 S01

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119.	S15.2, 1 <sup>st</sup> para, new 4 <sup>th</sup> sentence	Added new 4 <sup>th</sup> sentence in response to RAI 16.2-158, MFN 08-190.
120.	S15.2.1.1.1, 1 <sup>st</sup> para, 1 <sup>st</sup> bullet	Added “and/” in response to RAI 4.3-13, MFN 08-387.
121.	S15.2.1.1.1, 5 <sup>th</sup> para	Changed paragraph in response to RAI 4.3-13, MFN 08-387.
122.	S15.2.1.1.1, 8 <sup>th</sup> para	Changed paragraph to provide quantitative discussion of the non-limiting event scenario.
123.	S15.2.1.1.2, 1 <sup>st</sup> para	Changed table reference due to table number change.
124.	S15.2.1.1.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
125.	S15.2.1.1.3, 2 <sup>nd</sup> para	Added discussion to describe event input change and changed table reference due to table number change.
126.	S15.2.1.1.3, 4 <sup>th</sup> para	Changed discussion to clarify basis for fuel cycle analysis.
127.	S15.2.1.1.4, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Changed sentence to clarify reference to barrier performance basis.
128.	S15.2.2.1.1, 2 <sup>nd</sup> para, 4 <sup>th</sup> and 5 <sup>th</sup> sentences	Deleted 4 <sup>th</sup> and 5 <sup>th</sup> sentences and added new sentence to correct statements about pressure control.
129.	S15.2.2.1.2, 1 <sup>st</sup> para, new 5 <sup>th</sup> and 6 <sup>th</sup> sentences	Added to discuss required operator actions consistent with RG 1.206.
130.	S15.2.2.1.2, 2 <sup>nd</sup> para, new 7 <sup>th</sup> thru 10 <sup>th</sup> sentences	Added new sentences to clarify the two scenarios analyzed.
131.	S15.2.2.1.3, 1 <sup>st</sup> para, 1 <sup>st</sup> and 5 <sup>th</sup> sentences	Added discussion to clarify use of new inputs and changed table reference due to table number change.
132.	S15.2.2.1.3, 1 <sup>st</sup> para, 3 <sup>rd</sup> sentence	Change to note that peak flux reached the high flux scram but is not credited based on results using bounding steamline inputs.

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133.	S15.2.2.1.3, 2 <sup>nd</sup> para, 2 <sup>nd</sup> sentence	Deleted “As in the fast closure case,” based on results of TCV fast closure using bounding steamline inputs.
134.	S15.2.2.1.3, 2 <sup>nd</sup> para, 3 <sup>rd</sup> sentence	Deleted 3 <sup>rd</sup> sentence based on expected pressure control response.
135.	S15.2.2.1.3, 3 <sup>rd</sup> para	Added event description for clarification.
136.	S15.2.2.2.1, 2 <sup>nd</sup> para, 3 <sup>rd</sup> sentence	Changed reference to correct subsection.
137.	S15.2.2.2.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
138.	S15.2.2.2.3, 1 <sup>st</sup> para	Corrected system name.
139.	S15.2.2.2.3, 4 <sup>th</sup> para, 2 <sup>nd</sup> sentence	Changed “heat flux” to “power” to use consistent terminology.
140.	S15.2.2.2.3, 5 <sup>th</sup> para	Changed discussion to clarify basis for fuel cycle analysis.
141.	S15.2.2.3.1, 2 <sup>nd</sup> para, 3 <sup>rd</sup> sentence	Corrected reference to subsection.
142.	S15.2.2.3.2, 2 <sup>nd</sup> para and bullets	Changed to discuss only required operator actions consistent with RG 1.206.
143.	S15.2.2.3.3, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Corrected system name.
144.	S15.2.2.3.3, 5 <sup>th</sup> para	Added discussion to clarify use of new inputs and changed “heat flux” to “power” to use consistent terminology.
145.	S15.2.2.4.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
146.	S15.2.2.4.2, 3 <sup>rd</sup> para	Deleted 2 <sup>nd</sup> sentence to be consistent with event assumptions.
147.	S15.2.2.4.3, 2 <sup>nd</sup> para, 2 <sup>nd</sup> sentence	Changed reference to table due to table number change.

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148.	S15.2.2.4.3, 2 <sup>nd</sup> para, 5 <sup>th</sup> sentence	Changed “heat flux” to “power” to use consistent terminology. Changed “does not significantly exceed (< 1%) of its initial value” to “does not increase significantly;” see the results summary table.
149.	S15.2.2.4.3, 3 <sup>rd</sup> para	Changed to discussion to clarify basis for fuel cycle analysis.
150.	S15.2.2.5.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
151.	S15.2.2.5.3, 2 <sup>nd</sup> para	Changed reference to table due to table number change.
152.	S15.2.2.5.3, 2 <sup>nd</sup> para, 5 <sup>th</sup> sentence	Changed “heat flux” to “power” to use consistent terminology.
153.	S15.2.2.5.3, 2 <sup>nd</sup> para, new 7 <sup>th</sup> sentence	Changed sentence to remove initial core evaluation requirement including basis for removal.
154.	S15.2.2.6.2, 1 <sup>st</sup> para, new 3 <sup>rd</sup> sentence	Added discussion of required operator actions consistent with RG 1.206.
155.	S15.2.2.6.3, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Changed “heat flux” to “power” to use consistent terminology.
156.	S15.2.2.7.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
157.	S15.2.2.7.3, 3 <sup>rd</sup> para, 2 <sup>nd</sup> sentence	Changed “heat flux” to “power” to use consistent terminology.
158.	S15.2.2.8.2, 3 <sup>rd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
159.	S15.2.2.8.3, 4 <sup>th</sup> para, 6 <sup>th</sup> sentence	Changed reference to table due to table number change and changed “heat flux” to “power” to use consistent terminology and removed value because the value is given in a referenced table.
160.	S15.2.2.9, 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> para	Changed discussion to provide evaluation with nonsafety-related systems unavailable.

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161.	S15.2.3.1	Added subsection and subsequent subsections to include control rod withdrawal error during startup event that is classified as an AOO.
162.	S15.2.3.2	Added section and subsequent subsection in response to RAI 15.3-33, MFN 07-582.
163.	S15.2.4.1.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
164.	S15.2.4.1.2, 3 <sup>rd</sup> para	Changed sentence in response to RAI 16.2-33 S01.
165.	S15.2.4.2.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
166.	S15.2.4.2.3, 1 <sup>st</sup> para	Changed to note correct value in the referenced table.
167.	S15.2.5.1.2, 1 <sup>st</sup> para, new 2 <sup>nd</sup> sentence	Added discussion of required operator actions consistent with RG 1.206.
168.	S15.2.5.2.1, 1 <sup>st</sup> para, 5 <sup>th</sup> sentence	Changed “is designed to” to “may” for clarification.
169.	S15.2.5.2.2, 1 <sup>st</sup> and 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
170.	S15.2.5.3.1, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
171.	S15.2.6, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Changed reference to table due to table number change.
172.	S15.2.6, 1 <sup>st</sup> para, new 5 <sup>th</sup> sentence	Added reference to new Appendix 15D in response to RAI 15.0-31, MFN 08-323.
173.	S15.2.6, 2 <sup>nd</sup> para	Changed OLMCPR and added a supporting statement to include conservatism with respect to the calculated value.
174.	S15.2.6, 2 <sup>nd</sup> para, 5 <sup>th</sup> bullet	Deleted 5 <sup>th</sup> bullet consistent with event fuel cycle analysis basis.
175.	S15.2.6	Added last paragraph in response to RAI 15.3-11 S01, MFN 07-641.

Item	Location	Description of Change
176.	S15.2.8, 15.2-1	Changed to reference the document submitted in response to RAI 21.6-64, MFN 07-700. This reference supersedes the reference provided in response to RAI 15.3-11 S01, MFN 07-641.
177.	15.2.8, 15.2-4 and 15.2-5	Updated reference dates in response to RAI 15.0-31, MFN 08-323.
178.	T15.2-1	Added reference to note (1) to “Core Flow,” “Steam Flow,” “Feedwater Flow,” “Core Leakage Flow”
179.	T15.2-1	Deleted “Vessel Core Pressure” parameter and value because the value is not an input value in AOO or infrequent event analysis.
180.	T15.2-1	Added “BPV” for clarification of parameter.
181.	T15.2-1	Added “Minimum Servo” and parentheses around “Slow” to clarify assumption.
182.	T15.2-1	Changed “Turbine Inlet Pressure” to “Minimum Steamline Pressure Difference Between the Vessel Dome Pressure and the Turbine Throttle Pressure,” changed value and added note (2) in response to RAI 14.3-317, MFN 08-086 S36. Added “at rated conditions” and changed value based on analysis results using bounding steamline inputs subsequent to the RAI response.
183.	T15.2-1	Deleted “MCPR Operating Limit” parameter and value because the value is not an input value in AOO or infrequent event analysis.
184.	T15.2-1	Added discussion to specify parameters as related to SRVs or SVs.
185.	T15.2-1	Changed note reference to maintain correct reference.
186.	T15.2-1	Added information in “Vessel level Trips” row in response to RAI 6.2-174, MFN 07-695.
187.	T15.2-1	Added “Maximum” to “APRM Simulated Thermal Power Trip” in response to RAI 4.3-13, MFN 08-387.
188.	T15.2-1	Added parameters and values “Simulated Thermal...” in response to RAI 4.3-13, MFN 08-387.
189.	T15.2-1	Changed “Total Steamline Volume” parameter in response to RAI 14.3-317, MFN 08-086 S36.

Item	Location	Description of Change
190.	T15.2-1	Added “Minimum Steamline Length” parameter in response to RAI 14.3-317, MFN 08-086 S36.
191.	T15.2-1	Changed note reference to maintain correct reference.
192.	T15.2-1	Deleted inadvertent value of “(1)” from “Isolation Condensers.”
193.	T15.2-1	Added note (1) for clarification.
194.	T15.2-1	Added note (2) in response to RAI 14.3-317, MFN 08-086 S36. Subsequent to the response to the RAI, added sentences 2 and 3 to note (2), to explain change in CPR values in events using bounding steamline inputs.
195.	T15.2-1	Added notes (5) and (6) in response to RAI 4.3-13, MFN 08-387.
196.	T15.2-4a and T15.2-5	Changed table “15.2-4” to “15.2-5” and “15.2-5” to “15.2-4” and reordered tables. Changed table “15.2-4” to “15.2-4a.”
197.	T15.2-4a, 1 <sup>st</sup> row	Changed header to clarify description of column 7 values.
198.	T15.2-4a, 2 <sup>nd</sup> row	Changed $\Delta$ CPR/ICPR value based on analysis results with detailed channel grouping.
199.	T15.2-4a, new 4 <sup>th</sup> and 7 <sup>th</sup> row	Added events results with bounding steamline inputs and added note 2.
200.	T15.2-4a	Moved Loss of Shutdown Cooling Function of RWCU/SDC results to Table 15.2-4b.
201.	T15.2-4a	Changed $\Delta$ CPR/ICPR result, including conservatism with respect to the calculated value, and added a supporting note based on analysis results with detailed channel grouping.
202.	T15.2-4b	Added Table 15.2-4b for results of AOO analysis not performed with TRACG.
203.	T15.2-5, 3 <sup>rd</sup> row	Changed event description to use consistent terminology.
204.	T15.2-6	Changed sequence of events based on results with bounding steamline inputs.
205.	T15.2-8, 6 <sup>th</sup> row	Added “/SRI” to use consistent terminology.
206.	T15.2-14	Converted vacuum decay rate in row 3 to use units consistent with row 2.
207.	T15.2-16	Changed to absolute pressure consistent with values.

Item	Location	Description of Change
208.	T15.2-17	Changed time MCPR is recovered based on analysis results with detailed channel grouping.
209.	T15.2-23	Added new table in response to RAI 16.2-158, MFN 08-190.
210.	F15.2-1a through F15.2-1g	Replaced figures based on analysis results with detailed channel grouping.
211.	F15.2-1g through F15.2-16g	Added y-axis description in response to RAI 15.3-28, MFN 07-541.
212.	F15.2-2a thru 15.2-2g	Replaced figures based on analysis results with bounding steam line inputs.
213.	F15.2-3b thru F15.2-4b	Changed figures to plot all data on the left side axis.
214.	F15.2-5a thru F15.2-5g	Replaced figures based on analysis results with bounding steamline inputs.
215.	F15.2-6b thru F15.2-11b	Changed figures to plot all data on the left side axis.
216.	F15.2-11a through F15.2-11g	Replaced figures based on analysis results with detailed channel grouping.
217.	F15.2-13b thru F15.2-16b	Changed figures to plot all data on the left side axis.
218.	S15.3, 2 <sup>nd</sup> para, 2 <sup>nd</sup> sentence	Added reference to Table 15.3-1b in response to RAI 15.3-26, MFN 07-582.
219.	S15.3, 2 <sup>nd</sup> para, new 3 <sup>rd</sup> sentence	Added new 3 <sup>rd</sup> sentence in response to RAI 16.2-158, MFN 08-190.
220.	S15.3, 3 <sup>rd</sup> para, new 3 <sup>rd</sup> sentence	Added reference to new Appendix 15D in response to RAI 15.0-31, MFN 08-323.
221.	S15.3.1.1, 1 <sup>st</sup> para, 1 <sup>st</sup> bullet	Changed “or” to “and/or” in response to RAI 4.3-13, MFN 08-387.
222.	S15.3.1.1, 5 <sup>th</sup> para	Changed paragraph in response to RAI 4.3-13, MFN 08-387.
223.	S15.3.1.1, 5 <sup>th</sup> para	Changed discussion to note credit for Simulated Thermal Power Trip.

Item	Location	Description of Change
224.	S15.3.1.1, new 7 <sup>th</sup> , 8 <sup>th</sup> and 9 <sup>th</sup> paras	Added discussion in response to RAI 4.3-13, MFN 08-387.
225.	S15.3.1.2, 1 <sup>st</sup> para, new 2 <sup>nd</sup> sentence	Changed to discuss required operator actions consistent with RG 1.206.
226.	S15.3.1.2, 3 <sup>rd</sup> para, 2 <sup>nd</sup> sentence	Changed discussion to note credit for Simulated Thermal Power Trip.
227.	S15.3.1.3, 2 <sup>nd</sup> para	Added reference to results figure and table and revised discussion to credit simulated thermal power scram.
228.	S15.3.1.3, 3 <sup>rd</sup> para	Added discussion to clarify basis for fuel cycle analysis.
229.	S15.3.1.4, 1 <sup>st</sup> para, 4 <sup>th</sup> and new 5 <sup>th</sup> sentence	Changed to clarify basis for barrier performance.
230.	S15.3.1.4, 1 <sup>st</sup> para, new 6 <sup>th</sup> sentence	Added sentence in response to RAI 15.3-11 S01, MFN 07-641.
231.	S15.3.1.5, new 4 <sup>th</sup> paragraph	Added paragraph in response to in response to RAIs 15.4-3 S02.
232.	S15.3.2, title	Added “Flow” to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure in response to RAI 4.3-13, MFN 08-387.
233.	S15.3.2.1, 1 <sup>st</sup> para	Changed subsection reference in last sentence to be consistent with RAI 4.3-13, MFN 08-387.
234.	S15.3.2.2, 1 <sup>st</sup> para	Added sentence to describe FW isolation function.
235.	S15.3.2.2, 3 <sup>rd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
236.	S15.3.2.3.2, 1 <sup>st</sup> para, new 2 <sup>nd</sup> sentence	Added reference to table with summary of results.
237.	S15.3.3.1, 2 <sup>nd</sup> para, 3 <sup>rd</sup> sent	Replaced “limiting fault” with “an infrequent event” in response to RAI 15.3-29, MFN 07-582.
238.	S15.3.3.2.2, 1 <sup>st</sup> and 2 <sup>nd</sup> paras	Changed to discuss only required operator actions consistent with RG 1.206.

Item	Location	Description of Change
239.	S15.3.3.3.2, 1 <sup>st</sup> para, new last sentence	Added reference to table with summary of results.
240.	S15.3.4.2.2, 1 <sup>st</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
241.	S15.3.4.3, 1 <sup>st</sup> para, new 2 <sup>nd</sup> sentence	Added reference to table with summary of results.
242.	S15.3.4.4, 1 <sup>st</sup> para	Added last sentence in response to RAI 15.3-11 S01, MFN 07-641.
243.	S15.3.4.5, 1 <sup>st</sup> and 2 <sup>nd</sup> para	Changed discussion consistent with event results.
244.	S15.3.5.2.2, 1 <sup>st</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
245.	S15.3.5.2.3, 2 <sup>nd</sup> para	Deleted redundant paragraph about system operation assumptions.
246.	S15.3.5.3.1, 1 <sup>st</sup> para	Corrected system name.
247.	S15.3.5.3.2, 1 <sup>st</sup> para	Added discussion to clarify use of bounding steamline inputs.
248.	S15.3.5.4, 1 <sup>st</sup> para, 5 <sup>th</sup> sentence	Added sentence to clarify basis of barrier performance.
249.	S15.3.5.4, 1 <sup>st</sup> para, new 6 <sup>th</sup> sentence	Added sentence in response to RAI 15.3-11 S01, MFN 07-641.
250.	S15.3.6.2.2, 1 <sup>st</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
251.	S15.3.6.3.2, 1 <sup>st</sup> para, new 2 <sup>nd</sup> sentence	Added reference to table with summary of results.
252.	S15.3.6.4, 1 <sup>st</sup> para, new 6 <sup>th</sup> sentence	Added sentence to clarify to clarify basis of barrier performance.
253.	S15.3.6.4, 1 <sup>st</sup> para, new 7 <sup>th</sup> sentence	Added sentence in response to RAI 15.3-11 S01, MFN 07-641.

Item	Location	Description of Change
254.	S15.3.7.2, 5 <sup>th</sup> para	Changed to discuss required operator actions consistent with RG 1.206.
255.	S15.3.7.4, 1 <sup>st</sup> para	Reworded subsection to clarify basis of barrier performance.
256.	S15.3.8, title	Changed title to distinguish from event added in Section 15.2.
257.	S15.3.8, 2 <sup>nd</sup> para, 3 <sup>rd</sup> and 4 <sup>th</sup> sentence	Deleted "...at less than 50% control rod density..." and changed "100%" to "50%" to be consistent with Subsection 15A.3.12.1.
258.	S15.3.8.3.2, item (2), 1 <sup>st</sup> and 2 <sup>nd</sup> para	Added discussion of fuel cladding failure criteria in Appendix B of Revision 3 to SRP Section 4.2.
259.	S15.3.8.3.3, 1 <sup>st</sup> para	Added discussion to clarify the scram function credited.
260.	S15.3.8.4.2, title	Deleted subsection title because COL subsection was deleted.
261.	S15.3.9	Added "with ATLM Failure" to title in response to RAI 15.3-26, MFN 07-582.
262.	S15.3.9.1 and S15.3.9.2	Changed to discuss ATLM failure in response to RAI 15.3-26, MFN 07-582 and RAI 15.3-33, MFN 07-582 including changes regarding fuel failure to address RAI 15.2-26 S01.
263.	S15.3.9.1, last para, last sentence	Deleted last sentence to address to RAI 15.3-26 S01.
264.	S15.3.9.2, 2 <sup>nd</sup> para	Changed to discuss required operator actions consistent with the response to RAI 15.3-26, MFN 07-582 and RAI 15.3-33, MFN 07-582 and RG 1.206.
265.	S15.3.9.3 through S15.3.9.5	Changed to discuss ATLM failure in response to RAI 15.3-26, MFN 07-582 and RAI 15.3-33, MFN 07-582 including changes regarding fuel failure to address RAI 15.2-26 S01.
266.	S15.3.10.2, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Deleted "strong" because basis for statement is not clear.
267.	S15.3.10.5, 2 <sup>nd</sup> para, 3 <sup>rd</sup> sentence	Added reference to table to address to RAI 15.3-26 S01.

Item	Location	Description of Change
268.	S15.3.11.3, 1 <sup>st</sup> par, 2 <sup>nd</sup> sentence	Added reference to table to address RAI 15.3-26 S01.
269.	S15.3.12.2, 1 <sup>st</sup> para, 3 <sup>rd</sup> sentence	Changed sentence in response to RAI 15.3-34, MFN 08-202.
270.	S15.3.12.2, 1 <sup>st</sup> para, last sentence	Added discussion of required operator actions consistent with RG 1.206.
271.	S15.3.13.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
272.	S15.3.13.3, 1 <sup>st</sup> para, new 1 <sup>st</sup> and 2 <sup>nd</sup> sentences	Added reference to figure with results and table with summary of results.
273.	S15.3.13.3, 1 <sup>st</sup> and 2 <sup>nd</sup> para	Added details to 1 <sup>st</sup> sentence of first paragraph and new 2 <sup>nd</sup> sentence to second paragraph because of increase in SRV capacity.
274.	S15.3.14.2.1, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
275.	S15.3.15.2, 2 <sup>nd</sup> para	Changed to discuss only required operator actions consistent with RG 1.206.
276.	S15.3.15.3, 1 <sup>st</sup> para, new 1 <sup>st</sup> and 2 <sup>nd</sup> sentences	Added reference to figure with results and table with summary of results.
277.	S15.3.15.3, 1 <sup>st</sup> para	Added details to 1 <sup>st</sup> sentence and added new 6 <sup>th</sup> and 7 <sup>th</sup> sentences because of increase in SRV capacity.
278.	S15.3.16.2, new 3 <sup>rd</sup> para	Added new 3 <sup>rd</sup> paragraph in response to RAIs 15.4-3 S02 and 15.4-4 S02.
279.	S15.3.18, 15.3-2	Changed to reference the document submitted in response to RAI 21.6-64, MFN 07-700.
280.	S15.3.18, 15.3-6 and 15.3-7	Updated references in response to RAI 15.0-31, MFN 08-323.
281.	T15.3-1a	Changed Table “15.3-1” to “15.3-1a” in response to RAI 15.3-26, MFN 07-582.
282.	T15.3-1a, 1 <sup>st</sup> row	Changed header to clarify description of column 7 values.

Item	Location	Description of Change
283.	T15.3-1a	Added "Maximum Calculated TEDE" column and notes 2 and 4 in response to RAI 15.3-26, MFN 07-582 including updates consistent with changes subsequent to the RAI response.
284.	T15.3-1a	In Subsection 15.3.1 row, changed events results based on analysis results with credit for Simulated Thermal Power Trip.
285.	T15.3-1a	Added "Flow" in response to RAI 4.3-13, MFN 08-387 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure.
286.	T15.3-1a	In Subsection 15.3.5 row, added events results with bounding steamline inputs and added note 5.
287.	T15.3-1a	In Subsection 15.3.5 row, changed "<0.1" to "N/A" consistent with event evaluation.
288.	T15.3-1b	Added table to include all Infrequent Events in response to RAI 15.3-26, MFN 07-582.
289.	T15.3-1b	Added "With Failure of Control Rod Block" to "Control RWE During Startup" to distinguish from event added in Section 15.2 including updates consistent with changes subsequent to the RAI response.
290.	T15.3-1b	Added clarifications to address RAI 15.3-26 S01.
291.	T15.3-2	Added "/SRI" to table title to use consistent terminology.
292.	T15.3-2	Changed events results based on analysis with credit for Simulated Thermal Power Trip.
293.	T15.3-3	Added "Flow" in response to RAI 4.3-13, MFN 08-387 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure.
294.	T15.3-8, Title	Added "With Failure of Control Rod Block" to infrequent event "Control Rod Withdrawal Error During Startup" to distinguish from new event added in Section 15.2.
295.	T15.3-8	Changed "SRNM" to "APRM" to correct the name of the trip.
296.	T15.3-13	Changed parameters in response to RAI 15.3-25 S01, MFN 07-017 S02.
297.	T15.3-14	Changed activity released to coolant in response to RAI 15.3-25 S01, MFN 07-017 S02.

Item	Location	Description of Change
298.	T15.3-15	Changed release to environment in response to RAI 15.3-25 S01, MFN 07-017 S02.
299.	T15.3-16	Changed results in response to RAI 15.3-25 S01, MFN 07-017 S02.
300.	T15.3-17	Changed parameters and added notes in response to RAIs 15.4-3 S02.
301.	T15.3-19	Changed results in response to RAIs 15.4-3 S02.
302.	F15.3-1a-g	Replaced figures based on analysis results with credit for Simulated Thermal Power Trip.
303.	F15.3-1g through F15.3-9g	Added y-axis description in response to RAI 15.3-28, MFN 07-541.
304.	F15.3-2a-2g	Added "Flow" in response to RAI 4.3-13, MFN 08-387 to distinguish the Feedwater Flow Control Failure from the Feedwater Temperature Control Failure.
305.	F15.3-2b, F15.3-3b, and F15.3-4b	Changed figures to plot all data on the left side axis.
306.	F15.3-5a-h	Replaced figures based on analysis results with bounding steamline inputs.
307.	F15.3-6b	Changed figure to plot all data on the left side axis.
308.	F15.3-7a and b, Title	Added "With Failure of Control Rod Block" to infrequent event "Control Rod Withdrawal Error During Startup" to distinguish from new event added in Section 15.2.
309.	F15.3-8b and F15.3-9b	Changed figures to plot all data on the left side axis.
310.	Entire S15.4	Changed "10 CFR 50.34" to "10 CFR 52.47 (a)(2)" (see February 2008 audit item 1) due to change in regulation and corrected title of instrument line break to small line break (February 2008 audit item 10). Made subsection headings consistent and in sequence throughout accident subsections, with some heading topics deleted (see February 2008 audit item 18). Dual dimensioning added and tracked for consistency.
311.	S15.4.1.2.1, new subsection	Changed Subsection 15.4.1.2.1 to be consistent with February 2008 audit item 18. Renumbered subsequent subsections.

Item	Location	Description of Change
312.	S15.4.1.2.3, new sentence	Added new subsection identifying operator actions to be consistent with Reg. Guide 1.206.
313.	S15.4.1.3.1, 1 <sup>st</sup> para	Added references and reference titles to new regulations and corrected applicable SRP reference (February 2008 audit item 13).
314.	S15.4.1.3.2	Clarification provided that the reactor is in the refueling mode to be consistent with TS should this accident occur.
315.	S15.4.1.4, new subsection	Added new subsection headings and discussion.
316.	S15.4.1.5, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Added “(Reference 15.4-16)” to address new regulation (February 2008 audit item 1).
317.	S15.4.1.5, 2 <sup>nd</sup> para	Added new sentence to reflect location of analysis inputs and parameters.
318.	S15.4.1.5, 1 <sup>st</sup> through 5 <sup>th</sup> , and 7 <sup>th</sup> paragraphs	Clarified subsection source term derivation and subsequent consequences.
319.	S15.4.1.5, 6 <sup>th</sup> para	Changed paragraph in response to RAIs 15.4-3 S02 and 15.4-4 S02, Items a) through c). (Note that responses to these RAIs have not been previously submitted.)
320.	S15.4.1.7	Added new subsection to reflect that the radiological analysis assumptions are verified for site specificity.
321.	S15.4.3 through S15.4.4, 1 <sup>st</sup> para	Changed subsections in response to RAI 15.4-8 S01 Items a) through c). (Note that a response to this RAI has not been previously submitted.)
322.	S15.4.4, 1 <sup>st</sup> para and 3 <sup>rd</sup> para	Changed in response to RAI 15.4-17, MFN 07-523, and RAI 15.4-6 S01 Item a). (Note that a response to this RAI has not been previously submitted.)
323.	S15.4.4, 3 <sup>rd</sup> para, 1 <sup>st</sup> sentence	Deleted 10CFR50.34a reference and replaced with applicable new regulation 10CFR52.47 in response to RAI 15.4-8 S01, Item b). (Note that a response to this RAI has not been previously submitted.)
324.	S15.4.4.2.1	Added new sequence of events discussion in response to RAIs 15.4-7, 15.4-8, and 15.4-17, MFN 07-523, and superseded by some of the changes in response to RAI 15.4-6 S01, Items a) through c) and 15.4-17 S01, Items a) and b). (Note that a response to this RAI has not been previously submitted.)

Item	Location	Description of Change
325.	S15.4.4.2.1	Changed subsection in response to RAI 15.4-6 S01, Item a), RAI 15.4-7 S01, Item b) and 15.4-24 S01, Item b). (Note that responses to these RAIs have not been previously submitted.)
326.	S15.4.4.2.2. S15.4.4.2.3	Reordered subsection headings for consistency between Subsections. Renumbered subsequent subsections.
327.	New S15.4.4.2.2	Changed “Systems Operations” subsection in response to RAI 15.4-6 S01, Item a). (Note that a response to this RAI has not been previously submitted.)
328.	New S15.4.4.2.3	Added new subsection identifying operator actions consistent with Reg. Guide 1.206 requirements.
329.	S15.4.4.3	Added new 1 <sup>st</sup> paragraph and deleted Subsections 15.4.4.3.1, 15.4.4.3.2, and 15.4.4.3.3 in response to RAI 15.4-8 S01. (Note that a response to this RAI has not been previously submitted.)
330.	S15.4.4.4	Revised for clarification, and to make subsection consistent throughout subsections (February 2008 audit item 18).
331.	S15.4.4.5, 1 <sup>st</sup> para	Deleted RG title in response to RAI 15.4-6 S01 and February 2008 audit item 19. (Note that a response to this RAI has not been previously submitted)
332.	S15.4.4.5	Deleted “Passive Containment Cooling System/Isolation Condenser Pools Air Volume” from the 6 compartments of the LOCA model in response to RAI 15.4-7, MFN 07-523.
333.	S15.4.4.5.1.1, 1 <sup>st</sup> para	Changed 4 <sup>th</sup> sentence and added new 7 <sup>th</sup> , 8 <sup>th</sup> and 9 <sup>th</sup> sentences.
334.	S15.4.4.5.1.1, 1 <sup>st</sup> para, last two sentences	Changed “50 minutes” to “30 minutes” and changed “2 hours 20 minutes” to “2 hours”. Deleted last sentence. Changes are in response to RAI 15.4-17, MFN 07-523.
335.	S15.4.4.5.1.2	Added “The core inventory assumed is discussed in Appendix 15B” and deleted “35 GWd/MT burnup fuel was used with no decay time assumed” in response to RAI 15.4-17, MFN 07-523.
336.	S15.4.4.5.1.3	Deleted “Regulatory Guide 1.49” in response to RAI 15.4-17, MFN 07-523.
337.	S15.4.4.5.1.4, 1 <sup>st</sup> para, 2 <sup>nd</sup> sentence	Deleted “after 72 hours” in response to RAI 15.4-6 S02. (Note that a response to this RAI has not been previously submitted)

Item	Location	Description of Change
338.	S15.4.4.5.2, new 1 <sup>st</sup> para	Added paragraph in response to RAI 15.4-6 S01, Item b). (Note that a response to this RAI has not been previously submitted).
339.	S15.4.4.5.2, 2 <sup>nd</sup> para, 1 <sup>st</sup> sentence	Changed in response to RAI 15.4-6 S01. (Note that a response to this RAI has not been previously submitted). Added the feedwater isolation valve bypass leakage term to the total containment leakage summation.
340.	S15.4.4.5.2, 2 <sup>nd</sup> para, 3 <sup>rd</sup> sentence	Deleted per plant Technical Specifications since the leakage specified in the analysis becomes a part of the total TS limit.
341.	S15.4.4.5.2, 2 <sup>nd</sup> para, last sentence	Added the feedwater bypass leakage release directly to the environment pathway.
342.	S15.4.4.5.2, last para	Added the feedwater bypass leakage release directly to the environment pathway.
343.	S15.4.4.5.2, 2 <sup>nd</sup> through 7 <sup>th</sup> paras	Changed in response to RAIs 15.4-6 through 15.4-8, 15.4-10 S01, 15.4-17, 15.4-22 and 15.4-24, MFN 07-523.
344.	S15.4.4.5.2.1, 1 <sup>st</sup> para, 2 <sup>nd</sup> sentence	Added reference to Licensing Topical Report NEDE-33279P in response to RAI 15.4-6 S01, Item b). (Note that a response to this RAI has not been previously submitted.)
345.	S15.4.4.5.2.1, 2 <sup>nd</sup> para	Added 3 <sup>rd</sup> and 4 <sup>th</sup> sentences to clarify compliance to SRP 6.5.2 for iodine deposition maximum reduction factor.
346.	S15.4.4.5.2.2, 2 <sup>nd</sup> para, 1 <sup>st</sup> sentence	Added aerosol release pathways from RPV in response to RAI 15.4-39, MFN 08-315 and deleted in response to RAI 15.4-6 S01. (Note that a response to this RAI has not been previously submitted.)
347.	S15.4.4.5.2.2, 2 <sup>nd</sup> para	Changed in response to RAI 15.4-6 S01. (Note that a response to this RAI has not been previously submitted.)
348.	S15.4.4.5.2.2, 2 <sup>nd</sup> para, 1 <sup>st</sup> sentence	Added “and control room” for aerosol airborne contribution to offsite and control room doses in response to RAI 15.4-6 S02. (Note that a response to this RAI has not been previously submitted.)
349.	S15.4.4.5.2.2, 5 <sup>th</sup> para, new last sentence	Added new sentence in response to RAI 15.4-6 S02 to indicate that PCCS vent fans do not affect decontamination factors since they are not initiated until 72 hours. (Note that a response to this RAI has not been previously submitted.)

Item	Location	Description of Change
350.	S15.4.4.5.2.2	Added new 6 <sup>th</sup> and 7 <sup>th</sup> paragraphs and changed 9 <sup>th</sup> paragraph (referencing location for pH analysis and pH analysis results) in response to RAI 15.4-17, MFN 07-523, and later partially superseded by response to RAI 15.4-6 S02. (Note that a response to this RAI has not been previously submitted.) This also includes changes provided in response to RAI 15.4-39, MFN 08-315.
351.	S15.4.4.5.2.3	Added new Subsection 15.4.4.5.2.3 on Reactor Building Mixing based on GOTHIC computer code confirmation that the mixing volume assumed in RADTRAD is conservative; and renumbered subsequent sections to be consistent with new mixing analyses.
352.	S15.4.4.5.2.4, 1 <sup>st</sup> para	Reworded paragraph to indicate that the MSIV pathway is separate leakage pathway but contributes to the total TS limit established.
353.	S15.4.4.5.2.4, 2 <sup>nd</sup> para, 1 <sup>st</sup> sentence	Deleted TS discussion since it is already discussed in paragraph 1.
354.	S15.4.4.5.2.4, 6 <sup>th</sup> para	Changed paragraph to clarify plateout in MSL, MSL drain lines and main condenser.
355.	S15.4.4.5.2.5	Added 4 <sup>th</sup> and 5 <sup>th</sup> sentences to 1 <sup>st</sup> para and changed 2 <sup>nd</sup> para in response to RAI 15.4-22 S01, Items a) through c). (Note that a response to this RAI has not been previously submitted.)
356.	S15.4.4.5.2.5, 2 <sup>nd</sup> para, 2 <sup>nd</sup> sentence	Deleted 2 <sup>nd</sup> sentence in response to RAI 15.4-17, MFN 07-523 for ground level release clarifications.
357.	S15.4.4.5.3, 2 <sup>nd</sup> para, 1 <sup>st</sup> sentence and new 2 <sup>nd</sup> sentence	Deleted “almost” and added new 2 <sup>nd</sup> sentence in response to RAI 15.4-6 S01. (Note that a response to this RAI has not been previously submitted.)
358.	S15.4.4.5.3, 2 <sup>nd</sup> para, 6 <sup>th</sup> sentence	Changed in response to RAI 15.4-6 S01. (Note that a response to this RAI has not been previously submitted.) Reflects ancillary diesel generator design change.
359.	S15.4.4.5.4	Changed control room methodology discussion to include Table 2.0-1 and deleted 1 <sup>st</sup> sentence of 3 <sup>rd</sup> paragraph in response to RAI 15.4-17, MFN 07-523.

Item	Location	Description of Change
360.	S15.4.4.5.4, 2 <sup>nd</sup> para, new 1 <sup>st</sup> sentence	Added new sentence in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
361.	S15.4.4.7	Changed subsection numbering for consistency within subsection headings (February 2008 audit item 18).
362.	S15.4.5.2.1, new 1 <sup>st</sup> para	Added new paragraph for consistency within subsection headings. Additionally, MSLB analysis is based upon design change where the MSL were changed to 30-inch lines; see RAI 15.4-2 S02. (Note that a response to this RAI has not been previously submitted.) Changes consistent with DCD Tier 2 Tables 5.4-1 and 6.3-5.
363.	S15.4.5.2.3	Changed subsection identifying operator actions for consistency and to be consistent with Reg. Guide 1.206.
364.	S15.4.5.3.1	Added subsection for consistency within subsection headings, and renumbered subsequent sections (February 2008 audit item 18).
365.	S15.4.5.3.2	Deleted subsection for consistency within subsection headings (February 2008 audit item 18).
366.	S15.4.5.5, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Added "...Regulatory Guide 1.183 and..." for applicable guidance used and added new regulation (February 2008 audit item 1).
367.	S15.4.5.5, 5 <sup>th</sup> para	Replaced "Fission Product Release from Fuel" with "Source Term" discussion in response to RAI 15.4-2 S01, MFN 07-100 S01 and 07-456.
368.	S15.4.5.5, new 6 <sup>th</sup> para	Added source term iodine concentration increase justification in response to RAI 15.4-2 S01, MFN 07-100 S01 and 07-456.
369.	S15.4.5.5, 7 <sup>th</sup> and 8 <sup>th</sup> paras	Changed fission product transport to the environment description in response to RAI 15.4-2 S01, MFN 07-100 S01 and 07-456.
370.	S15.4.5.5, 9 <sup>th</sup> para	Changed Control Room envelope paragraph in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
371.	S15.4.5.5, 10 <sup>th</sup> para	Deleted 10 <sup>th</sup> paragraph for consistency within subsection headings (February 2008 audit item 18).
372.	S15.4.5.6 and S15.4.5.7	Changed subsections for consistency within subsection headings (February 2008 audit item 18), added new regulation 10CFR52.47 (February 2008 audit item 1), and GDC 19 for control room habitability dose limit.

Item	Location	Description of Change
373.	S15.4.6.3.2	Changed subsection identifying operator actions to be consistent with Regulatory Guide 1.206 and February 2008 audit item 18.
374.	S15.4.6.5	Changed barrier performance for CRDA in response to RAI 4.6-23 S02, MFN 08-350.
375.	S15.4.6.6	Changed radiological consequence for CRDA in response to RAI 4.6-23 S02, MFN 08-350.
376.	S15.4.7, 4 <sup>th</sup> para, 1 <sup>st</sup> sentence	Changed 1 <sup>st</sup> sentence to identify that FWLB is largest coolant mass released for similar breaks.
377.	S15.4.7, 4 <sup>th</sup> para	Added discussion in response to RAI 2.3-8 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
378.	S15.4.7, 5 <sup>th</sup> para, 2 <sup>nd</sup> sentence	Clarified this subsection presents the radiological consequences for FWLB only in response to RAI 2.3-8 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
379.	S15.4.7.1, 1 <sup>st</sup> para	Changed in response to RAI 2.3-8 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
380.	S15.4.7.2.1	Changed subsection for consistency within subsection headings (February 2008 audit item 18).
381.	S15.4.7.2.3	Changed subsection identifying operator actions to be consistent with Reg. Guide 1.206 requirements.
382.	S15.4.7.3.1	Changed subsection for consistency within subsection headings (February 2008 audit item 18).
383.	S15.4.7.3.2	Deleted heading number and changed new Subsection 15.4.7.3.2 for consistency within subsection (February 2008 audit item 18).
384.	S15.4.7.5	Incorporated subsections 15.4.7.5.2, 15.4.7.5.3, and 15.4.7.5.4 into 15.4.7.5.1 and changed text in response to RAI 2.3-8 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
385.	S15.4.7.5, 1 <sup>st</sup> para, 2 <sup>nd</sup> sentence	Added sentence for consistency within section and changed in response to RAI 15.4-6 S02, (Note that a response to this RAI has not been previously submitted).
386.	S15.4.7.5, 8 <sup>th</sup> para	Changed paragraph in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)

Item	Location	Description of Change
387.	S15.4.7.5, 9 <sup>th</sup> para	Deleted 9 <sup>th</sup> paragraph (old Subsection 15.4.7.5.4) for consistency within subsection headings (February 2008 audit item 18).
388.	S15.4.7.6 and S15.4.7.7	Added Subsection heading to Results section and new Subsection 15.4.7.7 for consistency within subsections (February 2008 audit item 18).
389.	S15.4.8	Added new 3 <sup>rd</sup> sentence to clarify assumptions in the analysis, and changed “instrument line” to “small line break” throughout subsection (February 2008 audit item 10).
390.	S15.4.8.2.3	Changed subsection for consistency within subsection headings (February 2008 audit item 18), and identified that there are no operator actions for 30 minutes.
391.	S15.4.8.3.1	Added new subsection and renumbered subsequent subsections for consistency within subsections (February 2008 audit item 18).
392.	S15.4.8.3.2	Deleted subsection for consistency within subsection headings (February 2008 audit item 18).
393.	S15.4.8.5	Changed subsection heading for consistency within subsection headings (February 2008 audit item 18) and clarified dose consequence assumptions.
394.	Old S15.4.8.5.2	Deleted subsection heading for consistency within subsection headings (February 2008 audit item 18).
395.	S15.4.8.5.1, 2 <sup>nd</sup> thru 3 <sup>rd</sup> para, 1 <sup>st</sup> thru 3 <sup>rd</sup> sent.	Added a more detailed description of fission product release for equilibrium case and iodine spike case in response to RAI 15.4-4 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
396.	S15.4.8.5.1, 2 <sup>nd</sup> para	Added reference for clarification.
397.	S15.4.8.5.1, 3 <sup>rd</sup> para, 1 <sup>st</sup> and 2 <sup>nd</sup> sentence	Added Reactor Building information for consistency within subsection.
398.	S15.4.8.5.1, 4 <sup>th</sup> para	Added new 4 <sup>th</sup> paragraph in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
399.	S15.4.8.5.3, S15.4.8.6	Changed subsections for consistency within subsection headings (February 2008 audit item 18).

Item	Location	Description of Change
400.	S15.4.8.6	Changed “exposures” to “exposure limit” for clarification, and defined the acceptance criteria and discussed the results.
401.	S15.4.9.1	Changed 1 <sup>st</sup> paragraph for consistency within subsection headings (February 2008 audit item 18), and indicated that the RWCU break represents the most significant line carrying reactor coolant outside containment.
402.	S15.4.9.2.1 through S15.4.9.2.2	Changed subsection headings for consistency within subsection (February 2008 audit item 18).
403.	S15.4.9.2.3	Added subsection identifying operator actions to be consistent with Reg. Guide 1.206.
404.	S15.4.9.3.1	Added subsection for consistency within subsection headings (February 2008 audit item 18).
405.	S15.4.9.3.2	Added subsection for clarification and consistency with other subsection headings (February 2008 audit item 18).
406.	S15.4.9.5	Deleted Subsection heading 15.4.9.5.1 and added 2 <sup>nd</sup> sentence to 1 <sup>st</sup> paragraph for consistency within subsection. Renumbered subsequent headings (February 2008 audit item 18).
407.	S15.4.9.5	Deleted S15.4.9.5.2 heading and added “Source Term” in response to RAI 15.4-4 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
408.	S15.4.9.5, 6 <sup>th</sup> para, 1 <sup>st</sup> sentence	Added “...as presented in Subsection 15.4.5.5.1” for clarification in response to RAI 15.4-4S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
409.	S15.4.9.5, 8 <sup>th</sup> , 9 <sup>th</sup> , and 10 <sup>th</sup> paras	Added discussion and paragraph descriptors in response to RAI 15.4-4 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
410.	S15.4.9.5, 9 <sup>th</sup> para	Changed 9 <sup>th</sup> paragraph in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
411.	S15.4.9.5, 10 <sup>th</sup> para	Deleted paragraph for consistency within subsection headings (February 2008 audit item 18).
412.	S15.4.9.6	Clarified the acceptance criteria for MSLB is based on the regulatory limits specified in 10CFR52.47 and GDC 19, and the guidance in SRP 15.0.3.

Item	Location	Description of Change
413.	S15.4.9.7	Added subsection for consistency within subsection headings (February 2008 audit item 18).
414.	S15.4.12	Changed date and revision for Reference 15.4-13 in response to RAI 15.4-17, MFN 07-523.
415.	S15.4.12	Changed reference 15.4-13 and added References 15.4-14 through 15.4-18 as required.
416.	S15.4.12	Added Reference 15.4-19 to be consistent with new mixing analyses.
417.	T15.4-1	Added note in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
418.	T15.4-2	Changed radial peaking factor for damaged rods from in response to RAI 15.4-1 S01, MFN 07-017 S01.
419.	T15.4-2	Changed table in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
420.	T15.4-4	Changed table in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that a response to these RAIs have not been previously submitted.) Deleted Tables 15.4-4a-d in response to RAI 15.4-27 S01 Item a). (Note that responses to this RAI has not been previously submitted.) Supersedes tables provided in MFN 07-523 dated November 30, 2007.
421.	T15.4-5	Changed analysis parameters to table in response to RAI 15.4-17, MFN 07-523. It should be noted that some of these values were late superseded in response to RAIs 15.4-3 S02, 15.4-4 S02 and 15.4-6 S02. (Note that responses to these RAIs have not been previously submitted). Added the FW Isolation valve leakage term for the LOCA dose consequence analysis.
422.	T15.4-5, Item II.A and footnote ###	Added feedwater leakage term due to design change. Added footnote ### for clarification.
423.	T15.4-5a	Added dispersion factor results in response to RAI 15.4-17, MFN 07-523.
424.	T15.4-5 through T15.4-5a	Changed table in response to RAI 15.4-6 S01, RAI 15.4-6 S02, RAI 15.4-7 S01 Item a), 15.4-17 S01 Item a), and RAI 15.4-22 S01 Item d). (Note that responses to these RAIs have not been previously submitted.)

Item	Location	Description of Change
425.	T15.4-6 through T15.4-8a	Changed tables in response to RAI 15.4-6 S02 (Note that a response to this RAI has not been previously submitted). This supersedes tables provided in MFN 07-523 dated November 30, 2007.
426.	T15.4-6 and 6a	Added compartment inventory results in response to RAI 15.4-17, MFN 07-523.
427.	T15.4-7 and 7a	Added environmental release results in response to RAI 15.4-17, MFN 07-523. This is superceded by the inclusion of feedwater isolation valve bypass contribution.
428.	T15.4-8 and 8a	Added control room activity results in response to RAI 15.4-17, MFN 07-523. This is superceded by the inclusion of feedwater isolation valve bypass contribution.
429.	T15.4-9	Changed analysis results in response to RAI 15.4-3 S02, 15.4-4 S02 and 15.4-6 S02. (Note that responses to these RAIs have not been previously submitted.) Change dose consequences to account for feedwater bypass leakage term addition.
430.	T15.4-9	Changed analysis results in response to RAI 15.4-17, MFN 07-523. It should be noted that since AS-1 is now bounding and filtered intake is credited with inleakage, the values have been superseded.
431.	T15.4-9	Changed table in response to RAI 15.4-6 S01. (Note that a response to this RAI has not been previously submitted.)
432.	T15.4-9	Changed table to add feedwater bypass leakage term due to design change.
433.	T15.4-11	Changed parameters and added control room and dispersion parameters in response to RAI 15.4-2 S01, MFN 07-100 S01 and 07-456. Mass and water releases are increased to reflect MSL design change to 30-inch.
434.	T15.4-11	Changed table in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
435.	T15.4-12	Changed environment releases in response to RAI 15.4-2 S01, MFN 07-100 S01 and 07-456.
436.	T15.4-12	Changed environmental releases in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)

Item	Location	Description of Change
437.	T15.4-13	Changed analysis results in response to RAI 15.4-2 S01, MFN 07-100 S01 and 07-456 and changed some values in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
438.	T15.4-13	Changed table to include dual units.
439.	T15.4-14	Changed parameters in response to RAI 2.3-8 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01 and RAI 15.4-3 S01, MFN 07-100.
440.	T15.4-14	Changed table in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.) Added note for clarification and credited unfiltered inleakage and filtered intake.
441.	T15.4-15	Changed release to environment in response to RAI 2.3-8 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
442.	T15.4-16	Changed analysis results in response to RAI 2.3-8 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
443.	T15.4-16	Changed table in response to RAI 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
444.	T15.4-17	Changes parameters for consistent table format within Section and based design changes and in response to RAI 15.4-3 S01, MFN 07-100 S02, RAI 15.4-4 S01, MFN 07-197 S01 and RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
445.	T15.4-17	Added “Release Point” to be consistent with February 2008 audit items 9 and 10, and RAIs 15.4-3 S02 and 15.4-4 S02, Item e). (Note that responses to these RAIs have not been previously submitted.)
446.	T15.4-17	Added “Unfiltered Leakage” and “Filtered Intake” in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
447.	T15.4-17	Added “Air Intakes” to “Control Room” for clarification.
448.	T15.4-18a and b	Changed release to the environment based design changes and in response to RAI 15.4-3 S01, MFN 07-100 S02 and RAI 15.4-4 S01, MFN 07-197 S01.

Item	Location	Description of Change
449.	T15.4-19	Changed results based on design changes and in response to RAI 15.4-3 S01, MFN 07-100 and RAI 15.4-4 S01, MFN 07-197 S01.
450.	T15.4-19	Changed table in response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
451.	T15.4-21	Added parameters in response to RAI 15.4-4S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
452.	T15.4-21	Changed table in response to RAI 15.4-3 S02 and 15.4-4 S02 to include filtered intake and unfiltered inleakage. (Note that responses to these RAIs have not been previously submitted.)
453.	T15.4-22	Changes release to environment results in response to RAI 15.4-4 S01, MFNs 06-396 S02, 07-100 S02 and 07-197 S01.
454.	T15.4-23	Changed results in response to RAI 15.4-3 S01, MFN 07-100 S02, RAI 15.4-4 S01, MFN 07-197 S01, and RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
455.	T15.4-23	Changed table in response to RAIs 15.4-3 S02 and 15.4-4 S02 to include filtered intake and unfiltered inleakage. (Note that responses to these RAIs have not been previously submitted.)
456.	F15.4-1	Changed figure in response to RAI 15.4-17, MFN 07-523, and superseded some portions due to including filtered intake and unfiltered inleakage (see response to RAIs 15.4-3 S02 and 15.4-4 S02. (Note that responses to these RAIs have not been previously submitted.)
457.	F15.4-1	Added feedwater bypass leakage term.
458.	F15.4-2 through F15.4-7	Added figures in response to RAI 15.4-17, MFN 07-523.
459.	F15.4-2	Changed figure in response to RAIs 15.4-3 S02, 15.4-4 S02 and 15.4-6 S01. (Note that a response to these RAIs have not been previously submitted.)
460.	S15.5.1, 1 <sup>st</sup> para	Deleted sentence in response to RAI 16.2-119 S01, MFN 07-305 S01.
461.	S15.5.1.1 through 15.5.1.4	Changed and moved discussion from Subsections 5.2.2.3.1 through 5.2.2.3.4 in response to RAI 16.2-119 S01, MFN 07-305 S01.

Item	Location	Description of Change
462.	S15.5.1.2, 2 <sup>nd</sup> , 8 <sup>th</sup> and 11 <sup>th</sup> paras	Updated values based on results with bounding steamline inputs and clarified inputs used in the analysis.
463.	S15.5.1.2, 6 <sup>th</sup> para, new 3 <sup>rd</sup> sentence	Added new third sentence to “Pressurization Events” in response to RAI 5.2-61, MFN 07-307.
464.	S15.5.1.2, 7 <sup>th</sup> para, new 3 <sup>rd</sup> sentence	Changed references in response to RAI 15.0-31, MFN 08-323.
465.	S15.5.4.3.2, 2 <sup>nd</sup> and 3 <sup>rd</sup> paras	Changed to be consistent with Table 15.5-1.
466.	S15.5.4.3.4, 1 <sup>st</sup> para, 2 <sup>nd</sup> bullet	Added “greater than or equal to” for clarification.
467.	S15.5.4.3.6, 1 <sup>st</sup> para, item (3)	Changed 3 <sup>rd</sup> paragraph for consistency with Table 15.5-1.
468.	S15.5.4.3.6, 12 <sup>th</sup> para	Added “greater than or equal to” for clarification.
469.	S15.5.4.3.6, 16 <sup>th</sup> para, 2 <sup>nd</sup> sentence	Deleted “...initiates the CRD high pressure make-up...” and added “...initiates...” in response to RAI 15.0-2 S01, MFN 06-331 S01
470.	S15.5.4.3.6, 16 <sup>th</sup> para, new 3 <sup>rd</sup> and 4 <sup>th</sup> sentence	Added discussion in response to RAI 21.6-51, MFN 08-092
471.	S15.5.4.3.6, 19 <sup>th</sup> through 21 <sup>st</sup> para	Revised to describe the Turbine Trip with Full Bypass ATWS event for ATWS stability.
472.	S15.5.4.4, 1 <sup>st</sup> para, new 6 <sup>th</sup> sentence	Added reference to new Appendix 15D in response to RAI 15.0-31, MFN 08-323.
473.	S15.5.5.1, new 4 <sup>th</sup> bullet	Added new 4 <sup>th</sup> bullet in response to RAI 15.5-8, MFN 07-494.
474.	S15.5.5.3, 1 <sup>st</sup> para	Added new 3 <sup>rd</sup> sentence in response to RAI 15.0-31, MFN 08-323.
475.	S15.5.6.1, 1 <sup>st</sup> para, 4 <sup>th</sup> bullet	Revised time requirement for achieving cold shutdown based upon 10 CFR 50.48 and Reg. Guide 1.189
476.	S15.5.6.2, 1 <sup>st</sup> para, 7 <sup>th</sup> bullet, 9 <sup>th</sup> dash	Deleted “loops” in response to RAI 6.2-102 S01, MFN 06-466 S01.

Item	Location	Description of Change
477.	S15.5.6.2, 1 <sup>st</sup> para, 11 <sup>th</sup> bullet, 2 <sup>nd</sup> and 3 <sup>rd</sup> sentence	Deleted 2 <sup>nd</sup> and 3 <sup>rd</sup> sentence in response to RAI 15.0-1 S01, MFN 06-331.
478.	S15.5.6.2, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence and 12 <sup>th</sup> bullet	Revised time requirement for achieving cold shutdown based upon 10 CFR 50.48 and Reg. Guide 1.189.
479.	S15.5.6.2, 1 <sup>st</sup> para, 13 <sup>th</sup> bullet, 1 <sup>st</sup> sentence	Deleted "...and CRD pump flow..." in response to RAI 15.0-2 S01, MFN 06-331 S01.
480.	S15.5.6.3, 2 <sup>nd</sup> para, 3 <sup>rd</sup> sent	Deleted 3 <sup>rd</sup> sentence in response to RAI 15.0-2 S01, MFN 06-331 S01.
481.	S15.5.6.3, 2 <sup>nd</sup> para, 4 <sup>th</sup> and 5 <sup>th</sup> sent	Changed in response to RAI 15.0-2 S01, MFN 06-331 S01.
482.	S15.5.6.3, 3 <sup>rd</sup> para	Deleted "...and CRD pumps" in response to RAI 15.0-2 S01, MFN 06-331 S01.
483.	S15.5.6.3, 4 <sup>th</sup> para	Revised time requirement for achieving cold shutdown based upon 10 CFR 50.48 and Reg. Guide 1.189.
484.	S15.5.6.3, 5 <sup>th</sup> para	Deleted "...and CRD pumps..." in response to RAI 15.0-2 S01, MFN 06-331 S01.
485.	S15.5.9, 15.5-2	Updated reference to reflect most recent revision.
486.	S15.5.9, 15.5-4 and 15.5-5	Changed references in response to RAI 15.0-31, MFN 08-323.
487.	S15.5.9, new reference 15.5-7	Added new reference in response to RAI 16.2-119, MFN 07-305.
488.	T15.5-1	Changed containment pressure to gage units.
489.	T15.5-1a	Moved from Table 5.2-3 and changed in response to RAI 16.2-119 S01, MFN 07-305 S01.
490.	T15.5-1b	Added sequence of events table in response to RAI 16.2-119 S01, MFN 07-305 S01.
491.	T15.5-1b	Changed sequence of events based on results with bounding steamline inputs.

Item	Location	Description of Change
492.	T15.5-2	Revised the bounding values of the dome pressure, circulation flow, and steam/feedwater flow based to match verified initial conditions consistent with steam line design changes.
493.	T15.5-3; 17 <sup>th</sup> row	Added dual unit measurement for “Pool Cooling Capacity.”
494.	T15.5-3, added 18 <sup>th</sup> row	Added “Pool Cooling Water Temperature” to be consistent with Chapter 6.
495.	T15.5-3, new last row	Added performance requirement for FW runback following SCRRI/SRI and note (2).
496.	T15.5-4c, T15.5-4e, T15.5-5a, and T15.5-5b	Revised based on bounding analysis consistent with steamline design changes.
497.	T15.5-8a, 2 <sup>nd</sup> row	Changed unit conversion from “1264.1” to “1264.2”.
498.	T15.5-8a, rows 3 and 4	Changed value and time parameters in response to RAI 15.0-2 S01, MFN 06-331 S01.
499.	T15.5-8b, 3 <sup>rd</sup> row	Deleted 3 <sup>rd</sup> row in response to RAI 15.0-2 S01, MFN 06-331 S01.
500.	F15.5-3a through F15.5-3d	Replaced figures with those from bounding analysis consistent with steamline design changes.
501.	F15.5-4a through F15.5-4d	Replaced figures with those from bounding analysis consistent with steamline design changes.
502.	F15.5-7a through F15.5-7d	Replaced figures in response to RAI 15.0-2 S01, MFN 06-331 S01.
503.	F15.5-9	Replaced figures with those from limiting ATWS stability analysis for Turbine Trip with full bypass.
504.	F15.5-11a through 15.5-11f	Added figures in response to RAI 16.2-119 S01, MFN 07-305 S01.
505.	F15.5-11a through F15.5-11f	Modified figures based on analysis results with bounding steamline inputs.

Item	Location	Description of Change
506.	S15A.3.5	Changed subsection in response to RAI 4.3-13, MFN 08-387.
507.	S15A.3.5.1.1, 1 <sup>st</sup> para, 3 <sup>rd</sup> sentence	Changed “feedwater pumps are tripped...” to “feedwater system is isolated” to reflect design changes.
508.	S15A.3.5.1.2, 1 <sup>st</sup> para, 1 <sup>st</sup> sentence	Changed water levels to reflect latest latest design.
509.	S15A.3.5.1.2, 2 <sup>nd</sup> para, 1 <sup>st</sup> sentence	Added dedicated FTDC in response to RAI 4.3-13, MFN 08-387.
510.	S15A.3.5.1.2, 3 <sup>rd</sup> para	Changed paragraph to improve clarity.
511.	S15A.3.5.1.3	Distinguished that this is a feedwater flow controller result.
512.	S15A.3.5.2	Added Feedwater Controller – Minimum Temperature Demand Event as one of two possible feedwater controller failures evaluated; see response to RAI 4.3-13, MFN 08-387.
513.	S15A.3.6.2	Changed subsection due to design change in FWCS and SCRRI/SRI. Changes also based on RAI 4.3-12, MFN 08-313.
514.	S15A.3.8.1	Changed subsection in response to RAI 15.3-23 S01, MFN 07-011 S02.
515.	S15A.3.8.2, 6 <sup>th</sup> para, 1 <sup>st</sup> sentence	Added “of the main disk closure spring, or pilot valve setpoint spring” for clarification.
516.	S15A.3.8.2, 7 <sup>th</sup> para, 2 <sup>nd</sup> sentence	Changed “SRVs” to “SVs” in response to RAI 15.3-23 S01, MFN 07-011 S02.
517.	S15A.3.8.2, 8 <sup>th</sup> and 9 <sup>th</sup> paras	Changed in response to RAI 15.3-23 S01, MFN 07-011 S02.
518.	S15A.3.8.2, 8 <sup>th</sup> para	Subsequent to RAI Response 15.3-23 S01, updated paragraph to reflect Technical Specification change.
519.	S15A.3.8.2, new 10 <sup>th</sup> and 11 <sup>th</sup> paras	Added discussion in response to RAI 15.3-23 S01, MFN 07-011 S02.
520.	S15A.3.8.2, 12 <sup>th</sup> para	Added discussion and changed last sentence in response to RAI 15.3-23 S01, MFN 07-011 S02.

Item	Location	Description of Change
521.	S15A.3.10	Changed section to be consistent with Chapter 5 and is based on changes from RAI 15.3-23 S01, MFN 07-011 S02.
522.	S15A.3.12, title	Changed title to distinguish from event added in Section 15.2.
523.	S15A.5, Ref. 15A-2	Updated date of reference.
524.	T15A-3, 5 <sup>th</sup> row	Changed event name in response to RAI 4.3-13, MFN 08-387.
525.	T15A-3, new 6 <sup>th</sup> row	Added event and frequency in response to RAI 4.3-13, MFN 08-387.
526.	T15A-3, 7 <sup>th</sup> row	Added “SCRRRI and SRI” to be consistent with changes to Subsection 15.3.1.
527.	T15A-3, 13 <sup>th</sup> row	Changed event title consistent with change to Section 15.3.
528.	F15A-4a	Modified figure to reflect design changes as discussed in RAI 4.3-12, MFN 08-313.
529.	S15B, 2 <sup>nd</sup> para, 4 <sup>th</sup> sentence	Change “GWD” to GWd” in response to RAI 15.3-25 S01, MFN 07-017S02.
530.	T15B-1	Changed table in response to RAI 15.3-25 S01, MFN 07-017 S02.
531.	S15C	Added Appendix C in response to RAI 15.4-7, MFN 07-523.
532.	S15D	Added Appendix 15D in response to RAI 15.0-31, MFN 08-323.