

Global Abbreviations and Acronyms Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	Global Abbreviations And Acronyms List	Introduced the HP_CRD acronym meaning High Pressure Control Rod Drive

Chapter 15 Revision 0 to Revision 1 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1	All sections	Minor editorial changes are made, and the revision number is changed

Section 15.0 Revision 0 to Revision 1 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S15.0.1	Corrected reference number and various (non-technical) editorial changes
2.	S15.0.1.2	Various (non-technical) editorial changes
3.	S15.0.3.1	<ul style="list-style-type: none"> • Defined TEDE • Added Reference 15.0-3 • Various (non-technical) editorial changes
4.	S15.0.3.3	<ul style="list-style-type: none"> • Defined ECCS • Various (non-technical) editorial changes
5.	S15.0.3.4.1	Various (non-technical) editorial changes
6.	S15.0.3.4.2	One (non-technical) editorial change
7.	S15.0.3.4.3	One (non-technical) editorial change
8.	S15.0.3.4.7, last three paragraphs.	Clarified the first sentence in each paragraph
9.	S15.0.4.3	One (non-technical) editorial change
10.	S5.0.5	Two (non-technical) editorial changes
11.	S15.0.5.2	Clarified and simplified the text in the last bullet
12.	S15.0.6	<ul style="list-style-type: none"> • Updated the date to the first reference • Added Reference 15.0-5
13.	T15.0-1, Special Events row	Deleted two unnecessary “X’s”
14.	T15.0-2	<ul style="list-style-type: none"> • Added “Turbine” before “Bypass” in two locations • Moved the “Spent Fuel Cask Drop Accident” row. • Changed “Steam” to “Steamline” in two locations

Section 15.1 Revision 0 to Revision 1 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S15.1.1.2	Replaced citation of Subsection 15.02. with 15.0.3
2.	S15.1.2.2.3	Changed “refueling outage” to the more general and inclusive “plant outage”
3.	S15.1.3.2	Deleted subsection “Auxiliary System Evaluation and Diagrams
4.	S15.1.3.2, first paragraph	Deleted second sentence regarding auxiliary systems
5.	T15.1-2, State D third bullet	Changed “Turbine Scram Bypass” to “Decay Heat”
6.	T15.1-3, row 7, column 1	Changed “Main Steam” to “Main Steamline”
7.	T15.1-3, row 8, column 1	Changed “Main Steam” to “Main Steamline”
8.	T15.1-3, row 10, column 2	Changed Applicable States for Loss of Shutdown Cooling Function of RWCU/SDC System from “A, B, C, D” to “A, B, C”
9.	T15.1-3, row 14, column 1	Changed Event name from “Loss of Unit Auxiliary Transformer” to “Loss of Non-Emergency AC Power to Station Auxiliaries”
10.	T15.1-3, row 15	Deleted event “Loss of Grid Connection”
11.	T15.1-3, column 2	Changed Applicable States for Fuel Handling Accident from “A” to “A, B, C,D”
12.	T15.1-4, “General Rules”	Deleted Rule A3 for Auxiliary Systems
13.	T15.1-4, Rule B2	Revised names of event classes to be consistent with the usage throughout Chapter 15
14.	T15.1-4, Rule C5	Revised names of event classes to be consistent with the usage throughout Chapter 15
15.	T15.1-5	Changed column heading “ICS – MSIV Closure” to “ICS – MSIV Position”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
16.	T15.1-5	Changed column heading “SCRRib” to “SCRRI”
17.	T15.1-5, rows 7 and 8, column 1	Changed “Main Steam” to “Main Steamline”
18.	T15.1-5, numerous locations	Revised table entries to be consistent with the revised Event Diagrams
19.	T15.1-5	Deleted column for ICS initiation on L1
20.	T15.1-5	Added “APRM not downscale” to column heading for SLCS initiation on low water level and on high dome pressure
21.	T15.1-1	Added column for TBV closure on low-low condenser vacuum. This occurs for Loss of Condenser Vacuum event and for Loss of Non-Emergency AC Power to Station Auxiliaries event.
22.	T15.1-5	Deleted entries for manual actuation of RWCU/SDC
23.	T15.1-5	Deleted FAPCS start for Shutdown from Outside Control Room, Station Blackout, and Safe Shutdown Fire
24.	T15.1-5	Column heading for “ICS – RPV Low Water Level (Loss of Offsite Power)” changed to “ICS – Loss of Power Generation Bus (Loss of Feedwater Flow)”
25.	T15.1-6	Column heading for scram on TSV and TCV closure changed to read “with insufficient bypass available” instead of “with TBP inoperable”
26.	T15.1-6	Changed column heading “Scram – MSIV Closure” to “Scram – MSIV Position”
27.	T15.1-6	Changed column heading “Rod Block – SRNM Period” to “Rod Block – SRNM Period or ALTM Parameter Exceeded”
28.	T15.1-6	Changed column heading scram signal from “feedwater not available” to “(Loss of Power Generation Bus) – Loss of Feedwater Flow”.
29.	T15.1-6, numerous locations	Revised table entries to be consistent with the revised Event Diagrams

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
30.	T15.1-7, row 7, column 1	Changed “Main Steam” to “Main Steamline”
31.	T15.1-7, row 8, column 1	Changed “Main Steam” to “Main Steamline”
32.	T15.1-7, row 14, column 1	Changed Event name from “Loss of Unit Auxiliary Transformer” to “Loss of Non-Emergency AC Power to Station Auxiliaries”
33.	T15.1-7, row 15	Deleted event “Loss of Grid Connection”
34.	T15.1-7, column 3	Changed Figure numbers to correspond to revised figures
35.	F15.1-2	Deleted Figure describing auxiliary system format
36.	F15.1-2 through 15.1-47	Changed Figure numbers because of deletion of Revision 0 Figure 15.1-2
37.	F15.1-2 through 15.1-47	Revised Figures to be consistent with the system actions described in Sections 15.2 through 15.5
38.	F15.1-8 and 15.1-9	Changed Figure title from “...Main Steam...” to “...Main Steamline...”
39.	F15.1-12	Changed Figure title from “Inadvertent Isolation Condenser Operation” to “Inadvertent Isolation Condenser Initiation”
40.	F15.1-26	Changed Figure title from “... Fuel Loading Error ...” to “...Fuel Assembly Loading Error...”
41.	F15.1-27	Changed Figure title from “... Fuel Loading Error ...” to “...Fuel Assembly Loading Error...”

Section 15.2 Revision 0 to Revision 1 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S15.2, 2 nd para.	Inserted “COL Holder” after “The following”
2.	S15.2, 2 nd para., 2 nd bullet	Change IC injection valve from 0 to 1s actually used in the calculation
3.	S15.2, 2 nd para., 3 rd bullet	Inserted “of maximum bypass” after “...provides 50%”
4.	S15.2, 2 nd para.	<p>Inserted two new bullets after 1st bullet.</p> <p>“The control rod grouping defined is able to reduce the core power to 60% of rated power (at normal conditions). It is divided in three subgroups with scattered insertion time (a separation of 33s between each subgroup) and a total insertion time of 100s of each individual group.”</p> <p>“The MSIV closure curve is 0.0 s – 1.0, 0.6s – 1.0, 1.7s – 0.01 & 3.0s – 0.0 opened”</p>
5.	S15-2.1.1.1	<p>Added new paragraph at the end of Section 15.2.1.1.1.</p> <p>“Events could exist where the SCRRI is not activated; for example when the decrease of feed-water temperature is less than 16.67°C (30°F). In these cases the event is milder than this studied here because of the slow effect of the SCRRI in the core.”</p>
6.	S15.2.1.1.4, 1 st sent.	Inserted “(as stated in the Section 8.3 of Reference 15.2-1 containing the centerline melt protection discussion with the TRACG methodology)” after “...which the fuel”
7.	S15.2.2.1.2 3 rd para., 4 th bullet	Deleted “the” before “three TCVs”
8.	S15.2.4.2.3, 2 nd para., 2 nd sent.	Replaced “pump” with “pumps”
9.	S15.2.5.2.3, 6 th sent.	Replaced “HPCRD” with “HP_CRD”
10.	S15.2.7, 1 st sent.	Rewritten to read “COL Applicant: The following potentially limiting AOOs are should be evaluated for the initial core and (COL Holder) subsequent core design changes:”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
11.	S15.2.8	Added Reference 15.2-1. “General Electric Company, “TRACG Application for Anticipated Operational Occurrences (AOO) Transient Analysis” NEDE-32906P, Revision 1, April 2003.”
12.	T15.2-1	Inserted new item after 1 st item “Core Flow, kg/s 10130” Deleted rated steam & FW flow values to remove duplicate info. Changed to preferred SI units, kg/s, then converted to British units..
13.	T15.2-1, Vessel Level Trips (above bottom vessel)	Corrected L1 value with “11.00 (433.1)”
14.	T15.2-4, Item 1	Replaced “16.7°C” with “100°F”
15.	T15.2-5, Last Column Title	Replaced ΔCPR with “ΔCPR or Minimum Water Level (m over TAF)”.
16.	T15.2-5, Item 14, Last Column	Replaced “0.03” with “5.17m”
17.	T15.2-5, Item 15, Last Column	Replaced “≤ 0.01” with “4.97m”
18.	T15.2-6 Item 3	Replaced “0.10” with “0.08” in the 1 st column and Deleted “(Realistic closure timing)” from 2 nd column.
19.	T15.2-8 Item 4	Replaced “0.08” with “10.0” in the 1 st column and Added “(Realistic closure timing)” in the 2 nd column.
20.	T15.2-9, Last Item	Replaced “HPCRD” with “HP_CRD”
21.	T15.2-10, Item 4	Replaced “0.10” with “0.16” in 1 st column and Added “(Realistic closure timing)” in the 2 nd column.
22.	T15.2-11, Last Item	Replaced “HPCRD” with “HP_CRD”
23.	T15.2-13, Last Item	Replaced “HPCRD” with “HP_CRD”
24.	T15.2-15	Replaced “HPCRD” with “HP_CRD” Changed to “HPCRD recovers water level”, this removes the redundant “L2 initiation” entries

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
25.	T15.02-18	Included changes due to verification comments from verification of neDRFsection 0000-0000-7974
26.	T15.2-21, Item 17, 2 nd column	Replaced “CRD high pressure” with the acronym “HP_CRD”
27.	T15.2-22, Item 5, 2 nd column	Replaced “CRD high pressure” with the acronym “HP_CRD
28.	T15.2-22, Item 7, 2 nd column	Deleted “and ICs are initiated”
29.	F15.2-8a to 15.2-8g	Updated and rerun with smaller time-step to get the figure 15.2-8b more stable response of the bypass flow..
30.	F15.02-12	Included changes due to verification comments from verification of neDRFsection 0000-0000-7974

Section 15.3 Revision 0 to Revision 1 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S15.3	Added a paragraph. “Appendix 15A provides a determination of event frequency to categorize AOOs as defined in 10 CFR 50 Appendix A, and Infrequent Events. Section 15.0 Describes the Licensing basis for this categorization.”
2.	S15.3.1.5, 1 st para.	Rewritten to read “As can be seen in Table 15.3-16, the off site dose for this event is less than 2.5 REM Total Effective Dose Equivalent (TEDE) assuming the bounding number (1000 rods) of fuel failures.”
3.	S15.3.1.5	Added four new paragraphs before 1 st paragraph.
4.	S15.3.4.4, last sent.	Rewritten last sentence to read “In this event, there are no fuel rods that enter transition boiling.”
5.	S15.3.4.5	Added new paragraph before 1 st paragraph.
6.	S15.3.5.5	Added new paragraph before 1 st paragraph.
7.	S15.3.6.5	Added new paragraph before 1 st paragraph.
8.	S15.3.7.1, 1 st sent.	Inserted “(or the most reactive pair of rods associated with the same HCU)” after “...the most reactive rod”
9.	S15.3.7.2, 1 st para.	Inserted “(or a pair of control rods associated with the same HCU)” after “...a control rod”
10.	S15.3.7.2, 3 rd para., last sent.	Inserted “associated with same HCU” to read “Because the core is designed to meet shutdown requirements with one control rod pair (with the same HCU) or one rod of maximum worth withdrawn, the core remains subcritical even with one rod or a rod pair associated with the same HCU withdrawn.”
11.	S15.3.7.3, 2 nd sent.	Inserted “(or highest worth pair of control rods associated with the same HCU)” after “...worth control rod”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
12.	S15.3.7.3, 3 rd sent.	Replaced “Section” with “Subsection”
13.	S15.3.8.1, 5 th para., 4 th sent.	Replaced “Figure 15.3-7a” with “Table 15.3-6b”
14.	S15.3.8.2.1	Rewritten sentence to read “The sequence of events of a typical continuous control rod withdrawal error during reactor startup is shown in Table 15.3-6c.”
15.	S15.3.8.3.1, 1 st para., 1 st , 4 th & 8 th sent.	Replaced “RWE” with “control rod withdrawal error”
16.	S15.3.8.3.1, 3 rd sent.	Replaced “three” with “four”
17.	S15.3.8.3.2, Item 1c	Inserted “ABWR” after “...nominal” and Added “(Note the nominal ESBWR FMCRD withdrawal speed is 28 mm/s).”
18.	S15.3.8.3.3, 2 nd & 6 th sent.	Replaced “RWE” with “control rod withdrawal error”
19.	S15.3.9.1, 2 nd para., 1 st sent.	Replaced “RWE” with “control rod withdrawal error”
20.	S15.3.9.3, 1 st sent.	Replaced “RWE” with control rod withdrawal error”
21.	S15.3.10.5, 2 nd para.	Added at the end of paragraph. “Bounding radiological analysis of this event is contained in Reference 15.3-3. Individual plants must verify periodically (once every few years) that they are within the limiting site meteorological criteria contained in Reference 15.3-3 to ascertain that they are within the limits, or they will be required to demonstrate no fuel failure occurs for these two events, i.e., analyze these events as AOOs (see Reference 15.3-1).”
22.	S15.3.11	Changes due to verification
23.	S15.3.17, 1 st para.	Inserted “COL Applicant:” at the beginning of sent.
24.	S15.3.17, 2 nd para.	Inserted “COL Holder:” at the beginning of sent.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
25.	S15.3.18, Ref. 15.3-2	Replaced “CONAC03” with “CONAC04A” and Replaced “NEDO-21143-1, December 1981” with “NEDO-32708, August 1997.”
26.	T15.3-2	Added “* See Figure 15.3-1” Corrected units, 100 deg is F not C
27.	T15.3-3	Added MSIV isolation to L2 actions
28.	New Tables	Added new Tables 15.3-6b and 15.3-6b
29.	T15.3-11	Added a “*” in the table footnote. Add to table: (scram is conservatively assumed at pool cooling initiation temperature)
30.	T15.3-12	Added “* See Figure 15.3-9”
31.	New Tables	Added new Tables 15.3-13, 15.3-44, 15.3-15 & 15.3-16
32.	F15.3-7	Replaced with new figure.

Section 15.4 Revision 0 to Revision 1 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1)	S15.4 numerous occurrences	Corrected references to 10 CFR 50.67 to 10 CFR 50.34(a)(1) in text and tables
2)	S15.4.1.1	Added “or into the spent fuel storage pool”
3)	S15.4.1.2, 1 st , 5 th , and 6 th bullets	Added “or Fuel Building”
4)	S15.4.1.2, 7 th bullet	Replaced “refueling” with “fuel handling”
5)	S15.4.1.4.2	Changed units from English to metric
6)	S15.4.4.5	Added text to first paragraph for further clarification; deleted last sentence
7)	S15.4.4.5.1	Added subsection
8)	S15.4.4.5.1.1 through S15.4.4.5.1.5	Added subsections and text
9)	S15.4.4.5.2	Renumbered (was formerly S15.4.4.5.2) and added text, changed preface to list of buffering systems, to clarify that not all of these systems are designed to inject buffering agent, but at least 1 system will be able to inject buffering agent to each of the affected pools.
10)	S15.4.4.5.2.1	Added subsection and text
11)	S15.4.4.5.2.2	Renumbered (was formerly S15.4.4.5.2) and added text
12)	S15.4.4.5.2.3	Renumbered (was formerly S15.4.4.5.3) and added text at end of subsection
13)	S15.4.4.5.2.4	Renumbered (was formerly S15.4.4.5.4) and deleted text at end of first paragraph, and added sentence regarding structural integrity
14)	S15.4.4.5.3	Renumbered (was formerly S15.4.4.5.5) and replaced “fails” with “is unavailable” and “resumed” with “recharged and continue to operate” in 3 rd para.
15)	S15.4.4.5.4	Renumbered (was formerly S15.4.4.5.6)
16)	S15.4.4.5.5	Added subsection regarding breathing rates

17	S15.4.4.6	Added text at end of subsection
18	S15.4.4.6.1	Renumbered (was formerly S15.4.4.5.7) and added text
19	S15.4.4.6.2	Added subsection regarding assumptions to be confirmed by COL holder
20	S15.4.5, 2 nd para.	Added period at end of paragraph
21	S15.4.5.5.1	Changed units from English to metric
20b	Subsection 15.4.6.1	Changes due to verification
22	S15.4.9.5.4	Changed units from English to metric
23	S15.4.10.1	Revised text to reflect that the radiological consequences are not evaluated
24	S15.4.10.2	Revised text to reflect that the radiological consequences are not evaluated
25	S15.4.11	Revised references to COL information
26	S15.4.12	Changed date of Reference 15.4-4; added references 15.4-7 through 15.4-11
27	T15.4-1	Revised text in first row for clarity
28	T15.4-2	Editorial change in third row
29	T15.4-5	I.B. – added “Table 1” I.D. – added decontamination factors, flow rates, and GDCS pool volume II.A – added values pertaining to containment II.B. – added values pertaining to RB II.C. – changed units from English to metric II.D. – added to define MSIV data III. – changed units from English to metric IV.B. and C. – added “Section 4” for clarity
30	T15.4-17	Editorial change in row for III.C.
31	T15.4-21	Editorial change in row for III.C.
32	T15.4-24	Deleted
33	T15.4-25	Deleted
34	T15.4-26	Deleted

Change List for Sections 15.5.1 through 15.5.6:Rev00 to Rev01

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S15.05.06.03	Corrected discussion of water levels, L1 is 11m not L0.5, and the other level referred to is L1.5, not L1.
2.	Table15.5-4a Row 5, Col 2	Replaced “0.171(24.81)” with “0.147 (21.26)”
3.	Table 15.5-4b Row 5, Col 2	Replaced “0.197(28.61)” with “0.172(24.90)”
4.	Table 15.5-4c Row 3, Col 3	Replaced “28s” with “29s”
5.	Table 15.5-4c Row 5, Col 2	Replaced “0.218(31.57)” with “0.191(27.77)”
6.	Table 15.5-4d Row 4, Col 3	Replaced “34s” with “4s”
7.	Table 15.5-5a Row 2, Col 3	Replaced “3s” with “9s”
8.	Table 15.5-5a Row 3, Col 3	Replaced “29s” with “37s”
9.	Table 15.5-5a Row 4, Col 3	Replaced “254s” with “290s”
10.	Table 15.5-5a Row 5, Col 3	Replaced “254s” with “290s”
11.	Table 15.5-5a Row 6, Col 3	Replaced “25s” with “31s”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
12.	Table 15.5-5a Row 5, Col 2	Replaced “0.225(32.70)” with “0.199(28.87)”
13.	Table 15.5-6a Row 3, Col 3	Replaced “724s” with “693s”
14.	Table 15.5-6a Row 5, Col 2	Replaced “0.166(24.01)” with “0.141(20.51)”
15.	Table 15.5-7a Row 5, Col 2	Replaced “0.201(29.09)” with “0.175(25.37)”
16.	Table 15.5-8a Row 5, Col 2	Replaced “0.168(24.42)” with “0.144(20.89)”
17.	Table 15.5-9a Row 5, Col 2	Replaced “0.200(28.97)” with “0.174(25.25)”
18.	Figure 15.5-1b Top Panel	Figure replaced to more accurately represent the data
19.	Figure 15.5-2b Top Panel	Figure replaced to more accurately represent the data
20.	Figure 15.5-3b Top Panel	Figure replaced to more accurately represent the data
21.	Figure 15.5-4b Top Panel	Figure replaced to more accurately represent the data
22.	Figure 15.5-5b Top Panel	Figure replaced to more accurately represent the data
23.	Figure 15.5-6b Top Panel	Figure replaced to more accurately represent the data

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
24.	Figure 15.5-7b Top Panel	Figure replaced to more accurately represent the data
25.	Figure 15.5-8b Top Panel	Figure replaced to more accurately represent the data
26.	Figure 15.5-1c Bottom Panel	Figure replaced to more accurately represent the data
27.	Figure 15.5-2c Bottom Panel	Figure replaced to more accurately represent the data
28.	Figure 15.5-3c Bottom Panel	Figure replaced to more accurately represent the data
29.	Figure 15.5-4c Bottom Panel	Figure replaced to more accurately represent the data
30.	Figure 15.5-5c Bottom Panel	Figure replaced to more accurately represent the data
31.	Figure 15.5-6c Bottom Panel	Figure replaced to more accurately represent the data
32.	Figure 15.5-7c Bottom Panel	Figure replaced to more accurately represent the data
33.	Figure 15.5-8c Bottom Panel	Figure replaced to more accurately represent the data
34.	Table 15.5-4d Row 10, Col 4	Replaced “Hot Standby Volume of Boron injected into Bypass” with “High pressure design volume of borated solution injected into bypass”
35.	Table 15.5-5b Row 11, Col 2	Replaced “Hot Standby Volume of Boron injected into Bypass” with “High pressure design volume of borated solution injected into bypass”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
36.	Table 15.5-6b Row 11, Col 2	Replaced “Hot Standby Volume of Boron injected into Bypass” with “High pressure design volume of borated solution injected into bypass”
37.	Table 15.5-7b Row 11, Col 2	Replaced “Hot Standby Volume of Boron injected into Bypass” with “High pressure design volume of borated solution injected into bypass”
38.	Table 15.5-8b Row 9, Col 2	Replaced “Hot Standby Volume of Boron injected into Bypass” with “High pressure design volume of borated solution injected into bypass”
39.	Table 15.5-9b Row 11, Col 2	Replaced “Hot Standby Volume of Boron injected into Bypass” with “High pressure design volume of borated solution injected into bypass”
40.	Table 15.5-4d Row 4, Col 4	Replaced “IC flow starts” with “IC initiates”
41.	Table 15.5-5b Row 6, Col 2	Replaced “IC flow starts” with “IC initiates”
42.	Table 15.5-6b Row 8, Col 2	Replaced “IC flow starts” with “IC initiates”
43.	Table 15.5-7b Row 4, Col 2	Replaced “IC flow starts” with “IC initiates”
44.	Table 15.5-9b Row 5, Col 2	Replaced “IC flow starts” with “IC initiates”
45.	Section 15.5.4.3.3, 2 nd paragraph, last sentence	Deleted
46.	Section 15.5.4.3.3, 3 rd paragraph	Rewritten for clarity
47.	Section 15.5.4.3.4, end of section	Two bullets added for HPCRD and IC setpoint descriptions
48.	Section 15.5.4.3.6, paragraph 1, 3 rd sentence	Replaced “ARI” with “hydraulic rod insertion (scram and ARI)”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
49.	Section 15.5.4.3.6, paragraph 4, 7 th sentence	Reworded for clarity and split into two sentences. The last 4 sentences in this paragraph were moved to a new paragraph
50.	Table 15.5-1	The first column was deleted. Rows 3 and 4 were deleted.
51.	Table 15.5-3, Column 1, row 10	Replaced “Closure [nominal/analysis assumption]” with “Closure”
52.	Table 15.5-3, Columns 1 & 2, row 15	Replaced “MW” with “kW/C”. Replaced “5.895” with “430.6”
53.	Table 15.5-4a, Columns 1 & 2, Row 5	Replaced “MPaG” with “kPaG”; Replaced “0.147” with “147.0”
54.	Table 15.5-4b, Columns 1 & 2, Row 5	Replaced “MPaG” with “kPaG”; Replaced “0.172” with “172.0”
55.	Table 15.5-4c, Columns 1 & 2, Row 5	Replaced “MPaG” with “kPaG”; Replaced “0.191” with “191.0”
56.	Table 15.5-4d and footnote for Table	Added a new row 11: column 1: 20, column 2: 5 and column 4: “start of rod motion”; In the footnote, replaced “for ATWS mitigation occurs if ARI fails” with “if ARI fails”. Replaced in row 12, column 4, “ARI fully inserted” with “Alternate Rod Insertion Complete”.
57.	Table 15.5-5a, Columns 1 & 2, Row 5	Replaced “MPaG” with “kPaG”; Replaced “0.199” with “199.0”
58.	Table 15.5-6a, Columns 1 & 2, Row 5	Replaced “MPaG” with “kPaG”; Replaced “0.141” with “141.0”
59.	Table 15.5-7a, Columns 1 & 2, Row 5	Replaced “MPaG” with “kPaG”; Replaced “0.175” with “175.0”
60.	Table 15.5-8a, Columns 1 & 2, Row 5	Replaced “MPaG” with “kPaG”; Replaced “0.144” with “144.0”
61.	Table 15.5-9a, Columns 1 & 2, Row 5	Replaced “MPaG” with “kPaG”; Replaced “0.174” with “174.0”
62.	Table 15.5-6b, Row 3, Column 2	Replaced “Feedwater runback initiated ” with “Feedwater runback initiated by operator”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
63.	Figures 15.5-10,11,12,13	Figures revised during verification, replaced downcomer water level curves with chimney collapsed and 2 phase level.

Chapter 15 Appendix A Revision 0 to Revision 1 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1	Complete Appendix	The entire appendix was extensively changed