

## Chapter 15 From Revision 2 to Revision 3 Change List

Item	Location	Description of Change
1	S15, entire chapter	Changed “essential” and non-essential” to “Safety Related” and “Nonsafety-Related”
2	S15, entire chapter	Added SRI to SCRRI acronym throughout chapter
3	S15, entire chapter	Changed TCS to TGCS
4	S15 Abbreviation and Acronym list	Changed list to reflect chapter content
5	S15.0	Changed GESTAR reference to Appendix 4B
6	S15.0.2	Removed redundancy in event lists and clarified event re-evaluation commitments
7	S15.0.2, 5 <sup>th</sup> para	Deleted paragraph, replaced with response to RAI 15.3-24
8	S15.0.2, 10 <sup>th</sup> para	Rewrote paragraph to reference COL information in S15.5.8
9	T15.0-7	Updated “Liquid Containing Tank Failure” row in response to RAI 15.3-4
10	S15.1.1.1, 1 <sup>st</sup> paragraph	Replaced “safe shutdown condition” with “stable shutdown condition” to be consistent with Technical Specifications
11	S15.1.1.1, 2nd paragraph	Replaced “safe shutdown condition” and “stable condition” with “stable shutdown condition” to be consistent with Technical Specifications
12	T15.1-5	<p>Changed “SCRRI” column heading to “SCRRI/SRI” to be consistent with revised system nomenclature</p> <p>Added a column for Passive Containment Cooling</p> <p>Revised System/Event entries as required to be consistent with revisions to Section 15.1 event figures</p> <p>Removed Note 1 because HP_CRD has been removed from the events figures for the instances where it is not a primary success path</p>
13	T15.1-6	Revised the scram signal for “Loss of Non-Emergency AC Power to Station Auxiliaries” event to be consistent with the event analysis described in DCD Subsection 15.2.5.2
14	F15.1-2 through F15.1-47	Revised the system actions to show only the primary success paths that are identified in the response to RAI 16.0-1

15	F15.1-1 through F15.1-47	Regenerated all Section 15.1 figures to provide crisper images in the DCD document
16	S15.2.0	Changed “COL Holder” to “COL Applicant”
17	S15.2.0, bullet list	Update sixth and seventh bullet to describe analysis assumption relation to SCRRI/SRI new design feature.
18	S15.2.0, bullet list	Eighth bullet added clarification of start valve movement
19	S15.2.0, bullet list	Replaced 12 <sup>th</sup> bullet with an assumption made in Stuck Open Safety-Relief Valve analysis.
20	S15.2.1.1.1, 3 <sup>rd</sup> para	Deleted last two sentences based on updated S10.1
21	S15.2.1.1.1, 5 <sup>th</sup> and 6 <sup>th</sup> para	Updated discussion based on new SCRRI/SRI design feature.
22	S15.2.1.1.2, 3 <sup>rd</sup> para	Added sentence to describe single failure in SRI design feature. Deleted simulated thermal power trip discussion.
23	S15.2.1.1.3, 2 <sup>nd</sup> para	Updated discussion based on new analysis results.
24	S15.2.1.1.3, 3 <sup>rd</sup> para	Deleted reference to specific pressure change.
25	S15.2.1.1.3, 4 <sup>th</sup> para	Rewrote paragraph to update COL information
26	S15.2.2.1.3, 3 <sup>rd</sup> para	Rewrote paragraph to update COL information
27	S15.2.2.2.1, 3 <sup>rd</sup> para, 3 <sup>rd</sup> sent	Updated discussion based on new analysis results.
28	S15.2.2.3.3, 6 <sup>th</sup> para	Added paragraph to include COL information
29	S15.2.3	Replaced entire subsection in response to RAI 15.3-20
30	S15.2.4.1.3, 5 <sup>th</sup> para	Added paragraph to include COL information
31	S15.2.4.2.1, 1 <sup>st</sup> para	Replaced first paragraph in response to RAI 15.2-12
32	S15.2.6, bullet list	Remove redundant list of potentially limiting events
33	S15.2.7	Wrote section to include COL information
34	T15.2-1	Renamed table in response to RAI 15.0-3. Deleted “fast closure analysis value (realistic)” for TSV closure times. Added SRV accumulation value. Changed isolation condenser volume. Added note to SRV capacity.

35	T15.2-4	Sequence of events based on new analysis results
36	T15.2-5	Updated analysis results
37	T15.2-6 through T15.2-13, T15.2-15, T15.2-19, T15.2-21, and T15.2-22	Sequence of events based on new analysis results
38	T15.2-19	Changed zero time event in response to RAI 15.2-12
39	F15.2-1 through F15.2-16, all figures a to g	Replaced based on new analysis results
40	F15.2-12	Updated figure to add connection between FTDC-R Channel A to Hardware/Firmware - Output
41	F15.2-4h F15.2-15h F15.2-16h	Added new figures based on new analysis results
42	S15.3.1.1, 5 <sup>th</sup> para	Updated discussion based on new SCRRI/SRI design feature
43	S15.3.1.1 S15.3.2.1 S15.3.3.1 S15.3.4.1 S15.3.5.1 S15.3.6.1 S15.3.7.1 S15.3.8.1 S15.3.9.1 S15.3.10.1 S15.3.11.1 S15.3.12.1 S15.3.13.1 S15.3.14.1 S15.3.15.1 S15.3.16.1	Added internal reference for frequency basis to the last sentence in each subsection
44	S15.3.1.3, 2 <sup>nd</sup> para	Deleted reference to specific pressure change
45	15.3.1.3, 3 <sup>rd</sup> para	Added paragraph to include COL information

46	S15.3.1.5	Rewrote subsection in response to RAI 15.3-25
47	S15.3.5.1	Deleted frequency basis discussion
48	S15.3.5.3.2	Rewrote subsection in response to RAI 15.3-24
49	S15.3.9.2, 1 <sup>st</sup> para, last sent	Replaced last sentence in response to RAI 15.3-20
50	S15.3.14.1	Changed internal reference for DPVs
51	S15.3.16.3	Rewrote subsection in response to RAI 15.3-4
52	S15.3.17	Rewrote subsection to update COL information
53	T15.3-1	Added note in response to RAI 15.0-3
54	T15.3-1	Updated subsection references within table based on RAI 15.3-24
55	T15.3-3, T15.3-4 T15.3-6a T15.3-7 T15.3-12	Sequence of events based on new analysis results
56	T15.3-8	Deleted duplicate table
57	T15.3-13 through T15.3-16	Changes made to entire table in response to RAI 15.3-25
58	T15.3-17	Added “Control room parameters” and additional “dispersion and dose data” to table in response to RAI 15.3-4
59	T15.3-18	Added “airborne” to the title and recalculated activity results in response to RAI 15.3-4
60	T15.3-19	Deleted “Meteorology” from the title and table content replaced with “exposure location” information in response to RAI 15.3-4
61	F15.3-1 through F153-6	Replaced based on new analysis results
62	F15.3-8 F15.3-9	Replaced based on new analysis results
63	S15.4.1.2.1	Rewrote section in response to RAI 15.4-1
64	S15.4.1.3.3	Rewrote section in response to RAI 15.4-1
65	S15.4.1.4.1	Rewrote section in response to RAI 15.4-1
66	S15.4.1.4.2	Rewrote to indicate information found in S15.4.11
67	S15.4.4	Deleted last two sentences in 1 <sup>st</sup> para and changed “effected” to “effective” in the 3rd para

68	S15.4.4.5, bullet list	Updated discussion based on revised modeling of particulate removal phenomena
69	S15.4.4.5.1.1, 1 <sup>st</sup> para	Updated discussion based on revised modeling of particulate removal phenomena
70	S15.4.4.5.2	Updated discussion based on revised modeling of particulate removal phenomena
71	S15.4.4.5.2.1	Updated discussion based on revised modeling of particulate removal phenomena
72	S15.4.4.5.2.2	Updated discussion based on revised modeling of particulate removal phenomena
73	S15.4.4.5.2.3, last para	Updated discussion based on revised modeling of particulate removal phenomena
74	S15.4.4.5.3	Updated based on CRHAHVS design changes
75	S15.4.4.5.5	Updated subsection to reflect information found in T15.4-5
76	S15.4.4.6, 1 <sup>st</sup> para	Deleted reference to Appendix 15B
77	S15.4.4.6.1	Updated subsection to reflect information found in S15.4.11
78	S15.4.4.6.2	Subsection deleted. Not COL information
79	S15.4.5.5.1, 5 <sup>th</sup> para	Changed exchange rate information
80	S15.4.5.5.1, 6 <sup>th</sup> para	Rewrote to indicated information found in S15.4.11
81	S15.4.8.5.1	Removed details in response to RAI 15.4-3
82	S15.4.11	Updated COL information
83	S15.4.12	Added two references used in S15.4
84	T15.4-2	Updated data and assumptions within table in response to RAI 15.4-1
85	T15.4-3	Updated activity results in table
86	T15.4-4	Updated “Maximum Calculated” column
87	T15.4-5	Updated table based on revised modeling of particulate removal phenomena
88	T15.4-6 through T15.4-9	Updated based on results of revised analysis
89	T15.4-10	Changed time event for <5 to <5.5 in response to RAI 15.4-2
90	T15.4-11	Updated table in response to RAI 15.4-2
91	T15.4-12	Replaced table in response to RAI 15.4-2

92	T15.4-13	Replaced table in response to RAI 15.4-2
93	T15.4-17	Update table in response to RAI 15.4-3
94	T15.4-18	Replaced table in response to RAI 15.4-3
95	T15.4-19	Updated table in response to RAI 15.4-3
96	S15.5	Changed “APRM” to “SRNM ATWS permissive” throughout section
97	S15.5.4.3.1, 2 <sup>nd</sup> para	Deleted reference to operating plants
98	S15.5.4.3.3, 1 <sup>st</sup> para	Removed historical reference to GESTAR
99	S15.5.4.3.4, 1 <sup>st</sup> para	Referenced correct section and figure in third sentence
100	S15.5.4.3.4, 1 <sup>st</sup> bullet	Added ARI and FMCRD initiation signal
101	S15.5.4.3.4, 2 <sup>nd</sup> bullet	Added SLCS initiation signal
102	S15.5.4.3.4, 3 <sup>rd</sup> bullet	Added FMCRD initiation signal
103	S15.5.4.3.6	Updated to describe new analysis assumptions and cases
104	S15.5.5.2, bullet list	Updated bullet list based on new analysis assumptions and RAI 15.5-6
105	S15.5.5.3, 6 <sup>th</sup> para	Added COL information
106	S15.5.6.2, bullet list	Rewrote 10 <sup>th</sup> bullets for clarity
107	S15.5.6.2, bullet list	Rewrote 11 <sup>th</sup> bullet based on SBO analysis
108	S15.5.8	Added COL Information
109	S15.5.9	S15.5.8 “References” became S15.5.9 with addition of “COL Information” in S15.5.8. Changed Reference 15.5-2 to reflect subsection content..
110	T15.5-2	Updated table based on new analysis results
111	T15.5-3	Updated table to provide additional performance characteristics
112	T15.5-4c, d, e	Updated tables based on new analysis results
113	T15.5-5a, b, c, d	Updated tables based on new analysis results
114	T15.5-9b	Added “Feedwater Runback Initiated” to table

115	T15.5-10a	Sequence of events based on new analysis results
116	T15.5-10b	Updated table based on new analysis results
117	F15.5-3 through F15.5-4	Replaced figures based on new analysis results
118	F15.5-10a, b, c, d, e	Replaced figures based on new analysis results
119	S15A3.8.1, 7 <sup>th</sup> para, 2 <sup>nd</sup> sent	Deleted sentence due to similar change in Chapter 5
120	S15A.3.8.2, 6 <sup>th</sup> and 8 <sup>th</sup> para	Updated Spurious SRV Actuation Signal analysis based on DPV Actuation Signal analysis
121	S15.3.8.3	Updated results based on new SRV Actuation Signal analysis
122	S15A3.9.1	Updated discussion to describe initiation logic changes
123	S15A.3.9.2.1.2, 3 <sup>rd</sup> para	Updated discussion to describe initiation logic changes
124	S15A.3.9.2.2.1	Updated analysis based on initiation logic changes
125	S15A.3.9.3	Updated results based on initiation logic changes
126	S15A3.10.1, 5 <sup>th</sup> para, 2 <sup>nd</sup> sent	Reworded sentence due to change in Chapter 5
127	T15A-1	Updated table based on initiation logic changes
128	T15A-3	Updated table based on initiation logic changes
129	F15A-1	Updated figure based on initiation logic changes
130	F15A-2a, b, c, d e, f, g, h	Updated figures based on initiation logic changes
131	15B	Changed Appendix to provide core source term
132	T15B-1	Added table to provide core source term
133	F15B-1	Deleted figure. Equivalent data is provided in T15.4-6 through T15.4-8