Chapter 19 Changes from Revision 3 to Revision 4 Change List

Item	Location	Description of Change
1.	Global	Made editorial changes in numerous locations to remove excessive spacing, correct punctuation, delete repeated words, correct misspelling, and correct grammar and tense. Spelled out acronyms where appropriate. Changed GE to GEH where appropriate.
2.	S19.1, 1st para	Rewritten for clarification.
3.	S19.2, entire section	Reworded for consistency.
4.	T19.1-1	Revision of list of systems modeled in the PRA to reflect the revised PRA model described in NEDO-33201 Rev 2.
5.	S19.2.1, 2nd para	Additional information provided for clarification.
6.	S19.2.2.1.1, entire subsection	Added a discussion of the significant design improvements made to the ESBWR based on operating experience.
7.	S19.2.2.1.2	Addressed potential design improvements and referenced NEDO-33306 Rev2 in response to RAI 19.4.0-1.
8.	S19.2.2.1.1	Additional information provided for clarification in response to RAI 19.4.0-1 S03.
9.	S19.2.3.1.1, 2nd para.	Rewritten for clarification with additional information added.
10.	S19.2.3.1.1, 1st and 2nd level bullets	Order of sequences changed to be consistent with NEDO-33201 section 7.
11.	S19.2.3.1.4	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
12.	S19.2.3.2.1, 1st and 2nd para.	Rewritten for clarification.

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Item	Location	Description of Change
13.	S19.2.3.2.1, Significant Core Damage Sequences of External Event Fire	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
14.	S19.2.3.2.1, Significant Large Release Sequences of External Event Fire	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
15.	S19.2.3.2.1, Summary of Important Results and Insights of External Event Fire, 3rd para	Deleted information no longer needed based on results from Rev. 2 of NEDO-33201 PRA Model.
16.	S19.2.3.2.2, entire subsection	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
17.	S19.2.3.2.3, entire subsection	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
18.	S19.2.3.2.4	Rewritten for clarification with additional information added.
19.	S19.2.4.1, entire subsection	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
20.	S19.2.4.3, 1st para and 1st bullet	Rewritten for clarification with additional information added.
21.	S19.2.4.4, entire subsection	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
22.	S19.2.5, entire subsection	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
23.	S19.2.6	COL Information relocated from 19.4.4 for COL numbering consistency.

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24.	S19.2.7, Ref 19.2-5	Additional reference added for design clarification.
25.	T19.2-2, line 1	Additional information provided for clarification.
26.	T19.2-3, entire table	Revised with additional information added based on results from Rev. 2 of NEDO-33201 PRA Model.
27.	T19.2-2	Additional information provided for clarification. RAIs 19.2-43S02, 19.2-66S02; 19.2-67S02, 19.2-68S02
28.	S19.3.1.3, 1st para	Rewritten for clarification with additional information added.
29.	S19.3.4.4, 3rd para	Deleted information no longer needed based on results from Rev. 2 of NEDO-33201 PRA Model.
30.	S19.3.4.6	Reference relocated to end of subsection (19.3.7) for Chapter consistency.
31.	S19.3.6	Additional section for COL numbering consistency.
32.	S19.3.7	Reference added from 19.3.4.5 for chapter consistency.
33.	S19.4.1, entire subsection	Updated with additional information provided to incorporate new information RG 1.206 on PRA design controls.
34.	S19.4.2, entire subsection	Updated with additional information added to address COLA requirements. Moved and rewrote Section 19.4.1 to 19.4.2
35.	S19.4.4.	COL Information relocated from 19.2.6 for COL numbering consistency.
36.	S19.4.5	Reference section added for Chapter consistency.
37.	S19.5	Rewritten with additional information added for clarification.
38.	S19.5.1	COL added for COL numbering consistency. Moved COL action item to 19.2.3.2.4.
39.	S19.4.5	Reference section added for Chapter consistency.

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40.	S19.6	Rewrote and numbered "Conclusions" to reflect results of NEDO-33201 Rev 2.
41.	S19A.1, 1st and 2nd bullets	Rewritten for clarity with additional information provided in response to RAI 22.5-15.
42.	S19A.2.1	Rewritten for clarity with additional information provided in response to RAI 22.5-12.
43.	S19A.3.1, 2nd para	Rewritten for clarity with additional information provided.
44.	S19A.3.1.2.	Additional updated information provided for clarity.
45.	S19A.3.1.4.	Additional information provided for clarity in response to RAI 22.5-15.
46.	S19A.3.2, 1st para	Additional updated information provided for clarity.
47.	S19A.3.2, 2nd para	Deletion of information for clarity in response to RAI 22.5-15.
48.	S19A.4.1, 3rd para	Deleted information no longer needed based on results from Rev. 2 of NEDO-33201 PRA Model.
49.	S19.4.2.1, 1st para	Rewritten for clarity with additional information provided.
50.	S19A.4.2.3	Rewritten for clarity with additional information provided.
51.	S19A.4.2.4	Rewritten for clarity with additional information provided.
52.	S19A.4.4	Rewritten for clarity with additional information provided.
53.	S19A.4.4.4	Rewritten for clarity with additional information provided.
54.	S19A.4.4.4.5	Rewritten for clarity with additional information provided.
55.	S19A.4.3, 4th para	Additional information provided for clarity.
56.	S19A.4.4.5	Additional updated information provided for clarity.
57.	S19A.4.4.8, 2nd para.	Additional updated information provided for clarity.

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Item	Location	Description of Change
58.	S19A.4.4.8, 3rd para	Deletion of information for clarity.
59.	S19A.6.1.2.1	Response to RAI 22.5-3.
60.	S19A.7	Additional updated information provided for clarity.
61.	S19A.8.1	Rewritten for clarity with additional information provided in response to RAI 22.5-15.
62.	S19A.8.3, 3rd and 5th para.	Rewritten for clarity with additional information provided in Response to RAI 22.5-6.
63.	S19A.8.4, 2nd sent.	Availability Controls Information manual moved to Appendix A.
64.	S19A.8.4.4	Additional information provided for clarity.
65.	S19A.8.4.6	Additional information provided for clarity.
66.	S19A.8.4.9	Additional information provided for clarity.
67.	S19A.8.4.10	Additional information provided for clarity in Response to RAI 22.5-2.
68.	S19A.8.4.12	Additional information provided for clarity.
69.	S19A.8.4.13	Rewritten for clarity with additional information provided.
70.	S19A.8.5	COL added for COL numbering consistency.
71.	S19A.8.5.6	Reference section added for Chapter consistency.
72.	S19.A.9	Deletion of information reference for clarity with addition of the Availability Controls Manual.
73.	T19A-1	Deletion of information for clarity.
74.	T19A-2	Additional information provided for clarity in Response to RAI 22.5-6.
75.	S19A.9, Entire Section	Additional information availability controls manual provided for clarity.