

DCD Tier 2 Chapter 3 Revision 3 to Revision 4 Change List
(Sections 3.1 to 3.8)

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	Acronym Table	Updated to list only the acronyms used in Sections 3.1 thru 3.8.
2.	Generic	Spelled out acronyms where appropriate.

Tier 2 Section 3.1 Revision 3 to Revision 4 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S3.1, General	Spelled out acronyms the first time used in this section.
2.	S3.1, General	Changed “Nonsafety-Related” to “nonsafety-related” throughout the section.
3.	S3.1, Title	Corrected “GENRAL” to “GENERAL”.
4.	3.1.1.2	Corrected title of Table 7.1-2 to 7.1-1 and the title to “Regulatory Requirements Applicability Matrix” in cross-reference section.
5.	S3.1.1.4, 2 nd para. of evaluation.	Deleted last sentence of paragraph referring to DCD Section 3.6.3.
6.	S3.1.1.4, 3 rd para. of evaluation.	Changed “.... structures, systems and components important to safety” to “ safety-related structures, systems and components”
7.	S3.1.2.8, 1 st para. of on-site evaluation.	Changed “unit auxiliary” to “Power Generation” in the last sentence.
8.	S3.1.2.8, 2 nd para. of on-site evaluation.	Changed “unit auxiliary” to “Power Generation”.
9.	S3.1.2.8, 3 rd para. of on-site evaluation	Deleted “and supplies power to the third tier’ from the end of the first sentence.
10.	S3.1.2.8, 3 rd para. of on-site evaluation	Added “(Standby Diesel Generators)” to the second sentence.
11.	S3.1.2.8, 3 rd para., of on-site evaluation	Added “safety-related” to the third sentence.
12.	S3.1.2.8, 5 th para. of on-site evaluation.	Added wording to indicate that there are both safety-related and non-safety related DC power systems.
13.	S3.1.2.8, 6 th para., of on-site evaluation	Deleted 2 nd sentence.
14.	S3.1.2.8, 6 th para. of on-site evaluation.	Added wording to indicate that 4 divisions of safety-related DC power provide the safety-related AC power.
15.	S3.1.2.8, 2 nd para. of off-site evaluation	Deleted the characterization of the disconnect as motor operated.
16.	S3.1.2.8, 3 rd para. of off-site evaluation	Deleted the characterization of the disconnect as motor operated.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
17.	S3.1.3.1, 2 nd para. of evaluation	Changed "...systems and components important to safety..." to "...safety-related systems and components..."
18.	S3.1.4.9, 2 nd para. of evaluation	Revised paragraph to provide more accurate description of the PCC System in response to RAI 6.2-102 S1.
19.	S3.1.4.9, 3 rd para. of evaluation	Changed the word "loops" to "condenser" (in 2 places) in response to RAI 6.2-102 S1.
20.	S3.1.4.9, 5 th para. of evaluation	Revised sentence to clarify relationship of the heat exchangers and the pools that they are housed in, in response to RAI 6.2-102 S1.
21.	S3.1.4.10, 1 st para. of evaluation	Changed "extension" to "integral part" in the first sentence in response to RAI 6.2-102 S1.
22.	S3.1.4.10, 1 st para. of evaluation	Changed ASME citations from "Class II" to "Class MC" and "Section XI" to "Section XI, IWE" in response to RAI 6.2-102 S1.
23.	S3.1.4.11, 1 st para. of evaluation	Changed "extension" to "integral part" and "system" to "boundary" in the first sentence in response to RAI 6.2-102 S1.
24.	S3.1.4.12, 1 st para. of evaluation	Added following sentence at the end of the paragraph: "Passive Autocatalytic Recombiners (PARs) are provided to recombine hydrogen and oxygen for long-term pressure control following an accident."
25.	S3.1.4.12	Changed "6.2.5.2" to "6.2.5" and deleted "6.2.5.3 Containment Inerting System" from the cross reference section.
26.	S3.1.4.12, S3.1.4.13 & S3.1.4.14	Deleted reference to DCD Section 9.4.9, since the material has been re-located to Section 6.2.5.
27.	S3.1.4.15, 1 st para. of evaluation	Edited, in response to RAI 6.2-102 S1, to explain that sufficient water volume is available for 72 hours after a LOCA, without external make-up to the IC/PCC pools.
28.	S3.1.4.15	Added "5.4.6 Isolation Condenser System" and "9.2.5 Ultimate Heat Sink" to cross references in response to RAI 6.2-102 S1.
29.	S3.1.4.16, 1 st para. of evaluation	Revised text to indicate what portions of the cooling water system are considered for inspectability in response to RAI 6.2-102 S1.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
30.	S3.1.4.16, 2 nd para. of evaluation	Changed “PCCS” to “IC/PCC pools” in response to RAI 6.2-102 S1.
31.	S3.1.4.16	Added “5.4.6 Isolation Condenser System” and “9.2.5 Ultimate Heat Sink” to cross references in response to RAI 6.2-102 S1.
32.	S3.1.4.17, 1 st para. of evaluation	Revised text to indicate what portions of the cooling water system are considered for testability in response to RAI 6.2-102 S1.
33.	S3.1.4, 17, 2 nd para. of evaluation	Changed “PCCS” to “IC/PCC pools” in response to RAI 6.2-102 S1.
34.	S3.1.4.17	Added “5.4.6 Isolation Condenser System” and “9.2.5 Ultimate Heat Sink” to cross-references in response to RAI 6.2-102 S1.
35.	S3.1.5.7, 1 st para. of evaluation	Deleted reference of the Passive Containment Cooling system in response to RAI 6.2-102 S1.
36.	S3.1.5.7	Deleted reference of the Passive Containment Cooling system in the cross-reference in response to RAI 6.2-102 S1.
37.	S3.1.6.2, 2 nd para. of evaluation	Deleted reference to dry new fuel storage.
38.	S3.1.6.3, 1 st para. of evaluation	Deleted “both” and “and dry new fuel storage vault” from the 2 nd sentence.
39.	S3.1.6.3, 2 nd para. of evaluation	Deleted reference to dry new fuel storage.
40.	S3.1.6.4, 1 st para., 1 st sent. of evaluation	Replaced “Pool” with “Pools”.

Tier 2 Section 3.2 Revision 3 to Revision 4 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	Throughout	A number of minor editorial changes (upper vs. lower case, inserting "the" or a comma, etc.) were made that don't affect the technical content. These are marked by revision bars, but not summarized in detail on this change list.
2.	S3.2.2, third paragraph	Deleted ", which are based on Section 6 of ANS Standard 58.14,". (per response to RAI 3.2-3 S02)
3.	S3.2.2.2, second paragraph	Changed "10 CFR 50.2(a)" to "10 CFR 50.2" for consistency with current structure of that CFR section.
4.	S3.2.2.3, item d.	Added "(Reference 3.2-7)" next to Regulatory Guide 1.3.
5.	S3.2.3, second paragraph	Revised first sentence to read: "This section provides definitions of the safety classes and gives examples of their broad application." (per response to RAI 3.2-3 S02)
6.	S3.2.3, third paragraph	Editorial. Changed "Section 3.2.2" to "Subsection 3.2.2".
7.	S3.2.3.1, second paragraph	Editorial. Changed "Section 3.2.2.1" to "Subsection 3.2.2.1".
8.	S3.2.3.2, last paragraph	Editorial. Changed "Section 3.2.2.2" to "Subsection 3.2.2.2".
9.	S3.2.3.3, Item (9)	Editorial. Changed "SC 2" to "SC-2".
10.	S3.2.3.3, Item (15)	Revised item to read: "Monitor plant variables that require Category 1 electrical instrumentation to meet the requirements of Regulatory Guide 1.97 (Reference 3.2-8)." (Change required due to elimination of Table 1 from Rev 4 of RG 1.97)
11.	S3.2.3.3, last paragraph	Editorial. Changed "Section 3.2.2.3" to "Subsection 3.2.2.3".
12.	S3.2.3.3.1 / S3.2.3.4	Editorial. Renumbered Subsection 3.2.3.3.1 as 3.2.3.4. It was inadvertently mislabeled in Rev 3.
13.	S3.2.5, Reference 3.2-5	Deleted reference to ANS 58.14 (per response to RAI 3.2-3 S02)
14.	S3.2.5, Reference 3.2-6	Editorial. Deleted "(300-214-4321)" from end of listing. This is not an official part of the reference.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
15.	Table 3.2-1, System B21, Item 12	Revised description to read: "Piping (including supports) for main steam drains inboard of outermost MSL isolation valves from outermost containment isolation valve up to and including the seismic restraints", changed location from TB to RB, and changed Seismic Category from "II" to "I".
16.	Table 3.2-1, System B21, Item 13	Revised description to read: "Piping and valves (including supports) for main steam drains beyond outermost MSL isolation valves up to and including second drain isolation valve" and changed Quality Group from "D" to "B".
17.	Table 3.2-1, System B21, Item 18	New item associated with above changes to items 12 and 13. Description: "18. Components (piping, valves, fittings) for the above-valve-seat main steam drains piping from downstream of the seismic restraint, and also for the main steam low-point drains piping from the second drain isolation valve, to the condenser nozzle connection." Safety Class "N", Location "TB", Quality Group "D", QA Req. "E", Seismic Category "II".
18.	Table 3.2-1, System C41, Item 1	Added "and vents" to description for consistency with system design documents.
19.	Table 3.2-1, System C41, Item 5	Added ", SB" to location for consistency with system design documents.
20.	Table 3.2-1, System C41, Item 8	Added new item "8. Piping and valves used for poison solution fill/makeup from the fill/makeup isolation valve downstream to the accumulators", Safety Class "2", Location "RB", Quality Group "B", QA Requirement "B", Seismic Category "I". Added for consistency with system design documents.
21.	Table 3.2-1, System C41, Item 9	Added new item "9. Other equipment used for poison fill/makeup, sampling and mixing", Safety Class "N", Location "RB", Quality Group "—", QA Requirement "E", Seismic Category "NS". Added for consistency with system design documents.
22.	Table 3.2-1, System C62, Item 1	Changed Location to "ALL". Changed Seismic Category to "II/NS". Added note: "Components whose failure can potentially adversely affect Seismic Category I components (e.g., in main control room) are required to be Seismic Category II. Otherwise the components are non-seismic." (per response to RAI 3.2-48 S01 and subsequent comment)

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
23.	Table 3.2-1, System C62, Item 2	Changed Seismic Category from "NS" to "II". (per response to RAI 3.2-48 S01)
24.	Table 3.2-1, System C72	Editorial. Changed system title to "Diverse Protection System" for consistency with Chapter 7. (per response to RAI 3.2-48 S01)
25.	Table 3.2-1, System E50, Item 5	Changed Quality Group from "C" to "—". Item does not meet RG 1.26 requirements for being assigned to a quality group. (per response to RAI 3.2-48 S01)
26.	Table 3.2-1, System F11	Split listing into two items as follows for consistency with Table 9.1-3: 1. Fuel Preparation Machine, Safety Class "N", Location "FB", Quality Group "—", QA Requirement "E", Seismic Category "II". 2. All Other Equipment, Safety Class "N", Location "FB, RB", Quality Group "—", QA Requirement "E", Seismic Category "NS". (per response to RAI 3.2-48 S01)
27.	Table 3.2-1, System F15, Item 3	Item 3 "Refueling Bellows" deleted from System F15. Item relocated to System T10, Item 6. (per responses to RAI 3.2-48 S02 and 16.2-77)
28.	Table 3.2-1, System F21	Changed Location from "FB" to "RB" for consistency with Table 9.1-4. (per response to RAI 3.2-48 S01)
29.	Table 3.2-1, System F32	Changed Location from "RB" to "FB" for consistency with Table 9.1-4. (per response to RAI 3.2-48 S01)
30.	Table 3.2-1, System N11, Item 1	Deleted second sentence of Note. (per response to RAI 3.2-1 S02)
31.	Table 3.2-1, System N21	Deleted system level note due to classification change from seismic interface restraint to last feedwater heater to match piping further upstream. Moved "See Figure 3.2-2" to line item 1 note.
32.	Table 3.2-1, System N37	Deleted second sentence of Note. (per response to RAI 3.2-1 S02) Change "TBS lines" to "TMSS lines up to the turbine bypass valves" because the official system boundary is at the valves.
33.	Table 3.2-1, System P63	System deleted due to design change that replaced it with electrical heaters.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
34.	Table 3.2-1, System R10, Item 3	Editorial. Revised description to "Reserve and unit auxiliary transformers". (per response to RAI 3.2-48 S01)
35.	Table 3.2-1, System R10, Item 4	Editorial. Revised description to "Isolated phase bus duct". (per response to RAI 3.2-48 S01)
36.	Table 3.2-1, System R10, Item 5	Editorial. Revised description to "Non-segregated bus duct". (per response to RAI 3.2-48 S01)
37.	Table 3.2-1, System R15, Item 2	Changed Safety Class from "3" to "N", QA Req from "B" to "E" and added the following in the Notes column: "Safety-related power is provided through isolation devices" for consistency with DCD Section 9.5.3.
38.	Table 3.2-1, System R51	Added note as follows: "System components are mounted to Seismic Category II requirements in safety-related areas." (per response to RAI 3.2-48 S01)
39.	Table 3.2-1, System T10, Item 6	Relocated System F15, Item 3 to here. Description "Refueling Bellows", Safety Class "N", Location "CV", Quality Group "—", QA Requirement "E", Seismic Category "I". (per responses to RAIs 3.2-48 S02 and 16.2-77)
40.	Table 3.2-1, System T15	Deleted ", RB" from Location. System is located entirely within containment boundary. (per response to RAI 6.2-102)
41.	Table 3.2-1, System T49	Design change. Added new system "Passive Auto-Catalytic Recombiner System (PARS)", Safety Class "N", Location "CV", Quality Group "—", QA Requirement "E", Seismic Category "I".
42.	Table 3.2-1, System T62	Split first item into two separate line items to eliminate note. Renumbered Rev 3 item 2 to item 3. Separated items are as follows: 1. Mechanical components involved in containment isolation function, Safety Class "2", Location "CV, RB", Quality Group "—", QA Requirement "B", Seismic Category "I". 2. Other safety-related portions of system, Safety Class "3", Location "CV, RB, CB", Quality Group "—", QA Requirement "B", Seismic Category "I". (per response to RAI 3.2-48 S01)

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
43.	Table 3.2-1, System U31, Item 2	Revised Seismic Category from "I" to "II". (per response to RAI 3.2-48 S01)
44.	Table 3.2-1, System U43, Item 5	Revised Seismic Category from "II" to "I". (per response to RAI 3.2-48 S01)
45.	Table 3.2-1, System U43, Item 7	Revised Seismic Category from "NS" to "II". (per response to RAI 3.2-48 S01)
46.	Table 3.2-1, System U72	Changed Seismic Category from "II" to "NS" per design requirement change.
47.	Table 3.2-1, System U74	Deleted "during design and construction" from Notes column text. A QA program is required during all stages of the life of a plant.
48.	Table 3.2-1, System U77, Item 4	Changed description to "(Deleted)" and deleted item classifications. This line item was part of EBAS, which has been eliminated from the design.
49.	Table 3.2-1, Systems Y71 and Y72	Editorial. Deleted "shall" from Notes column text.
50.	Figure 3.2-1	Figure revised for consistency with table. Changed Seismic Category from "II" to "NS" for Turbine Building per change to U72 above.
51.	Figure 3.2-2	Changed Seismic Category from "II" to "NS" for Turbine Building and feedwater piping between seismic restraint and last feedwater heater (per changes to N21 and U72 above).

Tier 2 Section 3.3 Revision 3 to Revision 4 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S3.3, 1 st sent.	Deleted “ESBWR Standard Plant structures, which are” and inserted “structures” after “Seismic Category I”.
2.	S3.3.1, 1 st para., 2 nd sent.	Editorial change.
3.	S3.3.1.1, 1 st sent.	Editorial change.
4.	S3.3.1.1, last sent.	Deleted last sentence.
5.	S3.3.1.2, 2 nd para., 1 st sent.	Inserted “wind” after “The design”.
6.	S3.3.1.3, new	Added new Section 3.3.1.3, “Effect of Failures of Structures or Components Not Designed for Wind Loads”.
7.	S3.3.2.2, last para., 1 st sent.	Revise to read “The reactor building, fuel building, and control building are not vented (enclosed) structures.”
8.	S3.3.2.2, last para., 2 nd sent.	Replaced “this structure” with “these structures”.
9.	S3.3.2.2, 3 rd sent.	Replaced “all air intake and exhaust” with “control building EFU air intake”.
10.	S3.3.2.3, 2 nd sent.	Replaced “systems” with “structures”; deleted “ESBWR Standard Plant”; and additional editorial changes.
11.	S3.3.2.3, last sent.	Replaced “C-1 or C-II” with “Seismic Category I”.

Tier 2 Section 3.4 Revision 3 to Revision 4 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S3.4.1, 1 st para.	Deleted “As discussed in SRP 3.4.1” and editorial changes.
2.	S3.4.1, 1 st para., 2 nd sent.	Editorial changes and broken down into bullet items.
3.	S3.4.1, 1 st para., last sent.	Revised sentence to read “The flooding analysis also considers the water-related effects of piping failures, while dynamic effects are addressed in Section 3.6.” For clarity (no technical changes).
4.	S3.4.1, 1 st para., 3 rd & 4 th sent.	Editorial change: moved sentences to a new paragraph after the 1 st paragraph.
5.	S3.4.1, 2 nd para. 4 th sent.	Editorial changes.
6.	S3.4.1, 2 nd para., 5 th sent.	Revised to read “However, the ESBWR does not require a safety-related permanent dewatering system.” For clarity (no technical changes).
7.	S3.4.1.1, 3 rd para., 1 st sent.	Editorial change: changed “evaluated” with “evaluates”.
8.	S3.4.1.1, 3 rd para., 2 nd sent.	Replaced “flooded” with “in a flooded environment” for clarity (no technical changes).
9.	S3.4.1.2, 2 nd para., 2 nd sent.	Replaced “plant grade elevation 0.3 m (1 ft.) above the flood” with “design plant grade elevation at least 310 mm (1 ft.) above the design flood” for clarity (no technical changes).
10.	S3.4.1.2, 3 rd para., 1 st bullet	Deleted “because the permanent dewatering system is Nonsafety-Related”, since the exterior surfaces below flood/ground water level are designed for hydrostatic loading, this nonsafety-related dewatering system is not required.
11.	S3.4.1.3, 1 st para., 3 rd sent.	Editorial change.
12.	S3.4.1.3, 2 nd para., 1 st bullet	Revised to read “A flooding alarm in the Main Control Room is followed by operator action within 30 minutes to identify the flooding source.” For clarity (no technical changes).

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
13.	S3.4.1.3, 5 th para., 1 st sent.	Revised to read “Spray damage is avoided by appropriate location of equipment or pipe or by providing protection from water spray.” For clarity (no technical changes).
14.	S3.4.1.4, 6 th para., 1 st sent.	Replaced “1 inch” with “25 mm (1 in.)” to provide dual units.
15.	S3.4.1.4, 7 th para., 1 st sent.	Editorial change: replaced “level” with “height”.
16.	S3.4.1.4.1, 1 st & 2 nd para.	Editorial changes.
17.	S3.4.1.4.1, 4 th para.	Replaced “safe drain areas” with “drains” for clarity (no technical changes).
18.	S3.4.1.4.2, 2 nd para., 2 nd sent.	Replaced “substantial” with “robust”; inserted “loads” after “...for hydrostatic” and replaced “events” with “loads” for clarity (no technical changes).
19.	S3.4.1.4.2, 3 rd para., 1 st sent.	Editorial change.
20.	S3.4.1.4.2, 6 th para., last sent.	Replaced “capacity” with “capability” for clarity (no technical changes).
21.	S3.4.1.4.2, 9 th para., 2 nd sent.	Replaced “safe drain areas” with “drains” for clarity (no technical changes).
22.	S3.4.1.4.3, 1 st bullet, 3 rd para., 3 rd sent.	Inserted “(4.9 ft.)” after “1.5 m” to provide dual units.
23.	S3.4.1.4.3, 4 th bullet, 2 nd para., 1 st sent.	Editorial change.
24.	S3.4.2, 1 st para., 1 st sent.	Deleted “In accordance with SRP 3.4.2,”; inserted “maximum” after “...effects of the”; inserted “levels” after “...highest groundwater”; and additional editorial changes for clarity (no technical changes).
25.	S3.4.2, 1 st para., 2 nd sent.	Revised sentence to read “The maximum flood and highest groundwater levels are considered in defining the input design parameters for the structural design to account for flood and groundwater loadings.” For clarity (no technical changes).

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
26.	S3.4.2, 1 st para., 3 rd sent.	Revised sentence to read “Because the ESBWR standard plant is located at a site where the flood level is below the finished ground level around Seismic Category I structures, the dynamic phenomena associated with a flooding event, such as currents, wind waves, and their hydrodynamic effects, are not considered.” For clarity (no technical changes).
27.	S3.4.2, 1 st para., 4 th sent.	Revised sentence to read “The values for the maximum flood and maximum groundwater level parameters are provided in Table 2.0-1.” For clarity (no technical changes).
28.	S3.4.2, 1 st para., last sent.	Revised to read, “The procedures utilized to transform the static and dynamic effects of the maximum flood and highest groundwater levels, that is, the design flood level and design ground water level, into effective loads applied to Seismic Category I structures are discussed in this subsection.” For clarity (no technical changes).
29.	S3.4.2, 2 nd para., last sent.	Revised to read “The values for site parameters used in the design of Seismic Category I structures were selected to envelope the actual characteristics at most sites. Table 2.0-1 ensures that the site meets the following:” for clarity (no technical changes).
30.	S3.4.2, 2 nd para., item (1)	Replaced “The flood or highest groundwater and dynamic effects, if any, used in the design...” with “The highest flood and highest groundwater levels, including any dynamic effects,...” for clarity (no technical changes).
31.	S3.4.2, 2 nd para., item (2)	Inserted “highest” before “flood...” and replaced “160 mm” with “at least 160 mm (6.3 in.)” for clarity (no technical changes).
32.	S3.4.2, 2 nd para., item (3), 1 st sent.	Replaced “The flood” with “Because the highest flood”; inserted “(6.3 in.)” after “160 mm”; and replaced “and only the” with “only” for clarity (no technical changes).
33.	S3.4.2, 2 nd para., item (3), 2 nd set.	Replaced “head” with “pressure” and “flood or with the highest” with “design flood level or with the design” for clarity (no technical changes).
34.	S3.4.2, 2 nd para., item (3), 3 rd sent.	Replaced “flood or highest ground water head excluding wave action” with “hydrostatic pressure due to the design flood level, excluding wave action or the design groundwater level” for clarity (no technical changes).

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
35.	S3.4.2, 2 nd para., item (3), last sent.	Deleted “However” and “and are based on total head” and additional editorial changes.
36.	S3.4.3, new	Added new Subsection 3.4.3, “COL Information” to indicate no new COL items for this section.
37.	S3.4.3	Editorial change: renumbered subsection to S3.4.4.
38.	T3.4-1	Replaced “El. 52400” with “El. 52700” and additional editorial changes to match changes to General Arrangement drawings.
39.	T3.4-1	Sorted data to descending elevations and added elevation in “ft.” for clarity (no technical changes) and to provide dual units.

Tier 2 Section 3.5 Revision 3 to Revision 4 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S3.5, General	Spelled out acronyms where appropriate.
2.	S3.5, General	Editorial change: removed parenthesis around “P ₁ ” and “P ₂ ”.
3.	S3.5, General	Editorial change: subscript “1” & “2” in “P1” & “P2”.
4.	S3.5, General	Editorial changes: replaced “safety-related structures, systems, and components” with the acronym “SSC”.
5.	S3.5, 1 st para., 1 st sent.	Editorial change: added the acronyms “(C-I) and “(SSC)”.
6.	S3.5, 2 nd para., last sent.	Editorial changes: replaced “have been” with “are” and “has been” with “is”.
7.	S3.5.1, 2 nd para., 1 st sent.	Editorial change: replaced “have been” with “are”.
8.	S3.5.1, 7 th para., bullets	Editorial change: capitalized 1 st word.
9.	S3.5.1, 8 th para., 1 st sent.	Editorial change: replaced “have been” with “are”.
10.	S3.5.1, 9 th para., Item (6)	Editorial change: replaced “CRD” with “Control Rod Drive”.
11.	S3.5.1.1.1.1	Editorial change: replaced “have been” with “are”.
12.	S3.5.1.1.1.2, 1 st para., 2 nd sent.	Added “and meets position C1 therein” for clarity.
13.	S3.5.1.1.1.2, 2 nd para., 1 st sent.	Replaced “inspection and testing” with “maintenance and inspection” for consistency with Section 10.2.
14.	S3.5.1.1.1.2, 2 nd para., last sent.	Replaced last sentence with “See Section 10.2 for a discussion of turbine missile generation and analysis” to avoid duplication of COL items already in Section 10.2.
15.	S3.5.1.1.1.3, 2 nd para.	Changed “...very robust, such...” to “robust” for clarity (no technical changes).
16.	S3.5.1.1.1.3, 3 rd para., 2 nd sent.	Replaced “they” with “that these components” for clarity (no technical changes).
17.	S3.5.1.1.1.3, 3 rd para., last sent.	Editorial change: inserted “the” before “maximum”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
18.	S3.5.1.1.2, Title	Replaced “Pressure” with “Pressurized” for clarity (no technical changes).
19.	S3.5.1.1.2.1, 1 st para., 1 st sent.	Replaced “pressure” with “pressurized components” for clarity (no technical changes).
20.	S3.5.1.1.2.1, 1 st para., 2 nd & last sent.	Editorial changes: replaced “may be” and “have been” with “are”.
21.	S3.5.1.1.2.1, 2 nd para., last sent.	Editorial change: replaced “have been” with “are”.
22.	S3.5.1.1.2.2, 3 rd para., bullets	Editorial change: capitalized 1 st word.
23.	S3.5.1.1.2.2.1, 1 st para., 1 st sent.	Deleted “(6.21 MPaG)”. Dual unit for valve designation. not required.
24.	S3.5.1.1.2.2.1, 2 nd para., 1 st sent.	Deleted “(4.14 MPaG)”. Dual unit for valve designation. not required.
25.	S3.5.1.1.2.2.1, 2 nd para., last sent.	Editorial change: replaced “were” with “are”.
26.	S3.5.1.1.2.2.2, 1 st sent.	Changed “All the isolation” to “Isolation” for clarity (no technical changes).
27.	S3.5.1.1.2.2.2, 2 nd sent.	Rewritten for clarity.
28.	S3.5.1.1.2.2.2, last sent.	Editorial change: replaced “can be” with “are”.
29.	S3.5.1.1.2.2.3	Editorial change: Changed “MPaG” with “MPag”.
30.	S3.5.1.1.2.2.4, 1 st para., 1 st sent.	Editorial change; replaced “has been performed” with “is performed as follows”.
31.	S3.5.1.1.2.2.4, 1 st para.	Added reference to Reference 3.5-1 and deleted the units from the definition of variables ” for clarity (no technical changes). And additional formatting changes.
32.	S3.5.1.1.2.2.4, 3 rd para., 1 st sent.	Editorial change: replaced “of” with “on”.
33.	S3.5.1.1.2.2.4, 3 rd para.	Deleted “m ² ” from the definition of “A _E ” & “A _p ” for clarity (no technical changes).
34.	S3.5.1.1.2.2.4, last para., 1 st & 2 nd sent.	Added U.S. customary units.
35.	S3.5.1.1.2.2.5	Editorial changes: deleted “only” and “thus”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
36.	S3.5.1.1.2.2.6, 2 nd sent.	Editorial change: replaced “have been” with “are”.
37.	S3.5.1.2.1	Replaced “becoming” with “generating” for clarity (no technical changes).
38.	S3.5.1.2.2, 4 th sent.	Replaced “One additional item..” with “Another group of items...” for clarity (no technical changes).
39.	S3.5.1.2.3	Deleted entire subsection since no credit is taken for missile barriers for rotating equipment generating missiles per Subsection 3.5.1.2 & 3.5.1.3.
40.	S3.5.1.2.4	Changed subsection number to “3.5.1.2.3” due to the deletion of the “Missile Barriers and Loadings”.
41.	S3.5.1.2.4, 1 st para.	Editorial change: replaced “have been” with “are”.
42.	S3.5.1.2.4, 3 rd para., 1 st bullet	Replaced “Class 1E and non-Class 1E” with “safety-related and nonsafety-related” for clarity (no technical changes).
43.	S3.5.1.2.4, 3 rd para., 2 nd bullet	Replaced “Non-Class 1E” with “Nonsafety-related” for clarity (no technical changes) and additional formatting changes.
44.	S3.5.1.4, 1 st para.	Deleted reference to NRC SRP 3.5.1.4 (no technical change) and additional minor editorial change.
45.	S3.5.1.4, 2 nd para., 1 st sent.	Editorial change: replaced “have been” with “are”.
46.	S3.5.1.4, 2 nd para., 2 nd sent.	Replaced “they envelope less intense phenomena” to “they envelop missile generated by less intense phenomena” for clarity (no technical changes).
47.	S3.5.1.4, 3 rd para.	Revised to indicate conformance to Regulatory Guides 1.76, 1.117, 1.13 and 1.27.
48.	S3.5.1.4, new 4th para.	Added additional detail for clarity to reflect current analysis.
49.	S3.5.1.5	Minor editorial changes.
50.	S3.5.2, 1 st para., 1 st sent.	Deleted reference to NRC SRP 3.5.2 (no technical changes) and additional minor changes.
51.	S3.5.2, 3 rd para., last sent.	Editorial change: replaced “IC/PCC” with “Isolation Condenser/Passive Containment Cooling”.
52.	S3.5.3, 2 nd sent.	Minor editorial change.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
53.	S3.5.3.1.1, 3 rd sent.	Minor editorial change.
54.	S3.5.3.1.1, last sent.	Replaced "...should in no case be less than those for Region II..." with "...is no less than that for Region I..." to reflect current analysis.
55.	S3.5.3.1.2, 2 nd sent.	Minor editorial change.
56.	S3.5.3.3, 1 st sent.	Editorial change: replaced "could be" with "are".
57.	S3.5.3.3, 3 rd sent.	Deleted "or C-II" because nonsafety-related structures do not require to be protected from adverse seismic interaction.
58.	S3.5.3.3, last sent.	Minor editorial change.
59.	S3.5.5, Item 3.5-1	Replaced reference to NUREG-1048 with NUREG-1503 to update reference.
60.	S3.5.5, Item 3.5-5	Replaced "Holmes and Narver, Inc., September 1975" with "Nuclear Engineering and Design, Volume 37, Issue 2, May 1976" to update reference.
61.	S3.5.5, Item 3.5-7	Replaced Item 3.5-7 with Item 3.5-9 "Bechtel Power Corporation, "Design of Structures for Missile Impact", Topical Report, BC-TOP-9A Revision 2, September 1974." per RAI 3.8-64 S4 to update reference.
62.	S3.5.5, Item 3.5-9	Moved item to Item 3.5-7 for clarity (no technical changes).
63.	T3.5-1, 3 rd column title	Minor editorial change.
64.	T3.5-1, Item (C), 3 rd column	Editorial change: Corrected "(B)" to "(C)".
65.	F3.5-1, Title	Added "(1044 psia)" after "7.2 MPa" for dual units
66.	F3.5-2	Added "Standard" in the title for clarity and replaced with latest revision to reflect changes in plot plan.

Tier 2 Section 3.6 Revision 3 to Revision 4 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S3.6, last para.	Added “(See Subsection 3.8.1.3.5)”.
2.	S3.6.1, 1 st sent.	Editorial changes
3.	S3.6.1.1, 1 st para.	Change to remove revision number from 3.6.1 & 3.6.2 because this information is contained in DCD Chapter 1.
4.	S3.6.1.1, under Assumptions	Under 4 th bullet, deleted “nuclear”. Under 10 th bullet, added “or“
5.	S3.6.1.2, 2 nd para.	Editorial changes.
6.	S3.6.1.3, 3 rd para., 2 nd thru 4 th bullets under Protection Methods by Separation	Editorial changes.
7.	S3.6.1.3, 3 rd para., under Barriers, Shields, and Enclosures	Deleted Reference to subsection 3.6.5 and to Col applicant item and editorial changes.
8.	S3.6.1.3, 1 st bullet under Specific Protection Measures	Editorial changes.
9.	S3.6.2, 2 nd para., item1	Additional information added due to RAI 3.9-13 S01.
10.	S3.6.2, 2 nd para., Item 3, 1 st sent.	Editorial change. Also, change to remove revision number from 3.6.2 because this information is contained in DCD Chapter 1.
11.	S3.6.2.1.1, under Piping in Containment Penetration Areas	Editorial changes. Under “For ASME Code, Section III, Class 1 Piping”, additional information added due to RAI 3.9-13 S01. Under “ASME Code, Section III Class 1 Piping in Areas Other Than Containment Penetration”, additional information added due to RAI 3.9-13 S01.
12.	S3.6.2.1.3, 1 st para., 2 nd bullet under Pipe Breaks	Editorial change.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
13.	S3.6.2.1.3, 1 st bullet under Pipe Cracks	Editorial change.
14.	S3.6.2.3.1, 2 nd para., 4 th bullet	Editorial change.
15.	S3.6.2.3.3, 1 st para., 2 nd sent.	Replaced “shall” with “the pipe whip restraints are required to” and editorial change.
16.	S3.6.2.3.3, 2 nd para. 1 st thru 3 rd bullet	Editorial changes.
17.	S3.6.2.5	Moved information from Subsection 3.6.5 to this new subsection with a connection to a Tier 1 ITAAC.
18.	S3.6.4	Editorial changes throughout the subsection.
19.	S3.6.5	Moved material to subsection 3.6.2.5. Added COL item, “Pipe Break Analysis and protection Methods”.
20.	S3.6.6	Deleted references 3.6-2, 3.6-3, 3.6-5 & 3.6-6.
21.	T3.6-1, Item 10 (a)	Replaced “Class 1E” with “Safety-related”.
22.	T3.6-2, Item 1	Deleted “(including liner plate)”.
23.	T3.6-2, Item 7(a)	Replaced “Class 1E” with “Safety-related”.
24.	T3.6-3, Title	Added “and Moderate”.
25.	T3.6-4, Title	Added “and Moderate”.
26.	F3.6-1 & 3.6-2	Replaced figures with higher resolution to meet NRC requirements.

Tier 2 Section 3.7 Revision 3 to Revision 4 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S3.7, General	Spelled out acronyms where appropriate.
2.	S3.7.1, 1 st sent.	Replaced “important to safety” with “safety-related” for clarity (no technical changes). “Important to safety” is no longer defined in Tier 1.
3.	S3.7.1, 4 th sent.	Revised to read “Two sites, Clinton (Reference 3.7-3) and Grand Gulf (Reference 3.7-4), have received early site permits” for clarity (no technical changes).
4.	S3.7.1	Added following sentence after the 4 th sentence: “NRC is currently reviewing an ESP application from North Anna (Reference 3.7-2)” for clarity (no technical changes).
5.	S3.7.1.1, 6 th sent.	Inserted “, also termed Certified Seismic Design Response Spectra (CSDRS),” after “...ground response spectra” for clarity (no technical changes).
6.	S3.7.1.1, 7 th sent.	Inserted “of RB/FB and CB” after “...(bottom of the base slab)” for clarity (no technical changes).
7.	S3.7.1.1, new 11 th & 12 th sent.	Added detail on FWSC CSDRS.
8.	S3.7.1.1.3, last para.	Replaced “SASSI” with “SASSI2000” for clarity (no technical changes).
9.	S3.7.1.2, last para., 1 st sent.	Rewritten for clarity.
10.	S3.7.2, 1 st sent.	Replaced “and CB” with “CB, and FWSC”.
11.	S3.7.2.1.1, 2 nd para., 3 rd sent.	Editorial change: changed tense from future to present.
12.	S3.7.2.1.3, 5 th sent.	Editorial change: replaced “may be” with “is”.
13.	S3.7.2.3, 3 rd para., 2 nd sent.	Editorial change: replaced “may be” with “can be”.
14.	S3.7.2.3, 4 th para., 1 st sent.	Editorial change: deleted “generally”.
15.	S3.7.2.3, 4 th para., 6 th sent.	Editorial change: replaced “may be” with “is”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
16.	S3.7.2.6, 3 rd para.	Editorial changes: replaced “may be” and “shall be” with “is”.
17.	S3.7.2.7	Revised entire subsection in response to RAI 3.12-21 S2”.
18.	S3.7.2.8, 1 st para., last sent.	Editorial change: replaced “...shall meet any...” with “...meet at least...”
19.	S3.7.2.8 1 st para., Item (1)	Added new last sentence to provide a criteria to prevent structure-to-structure seismic interaction similar to that provided in Section 3.3 and 3.5.
20.	S3.7.2.8, 1 st para., Item (2), 2 nd sent.	Editorial change: replaced “may be” with “is”.
21.	S3.7.2.9, 1 st para., last sent.	Editorial change: replaced “may be” with “is”.
22.	S3.7.2.13, 2 nd para., last sent.	Editorial change: replaced “may be” with “is”.
23.	S3.7.3.1, 1 st para., last sent.	Editorial change: replaced “Section” with “Subsection”.
24.	S3.7.3.2, 1 st para., last sent.	Editorial change: replaced “may be” with “is”.
25.	S3.7.3.2, 2 nd para., last sent.	Editorial change: replaced “may be” with “is”.
26.	S3.7.3.3	Editorial changes: deleted “generally” and replaced “Section” with “Subsection”.
27.	S3.7.3.3.1, 2 nd para., 1 st sent.	Editorial change: changed tense from future to present.
28.	S3.7.3.3.1, 3 rd para., 2 nd & last sent.	Editorial change: change tense from future to present.
29.	S3.7.3.3.3	Editorial change: changed tense from future to present.
30.	S3.7.3.5, 2 nd sent.	Editorial change: replaced “may be” with “is”.
31.	S3.7.3.9, last para.	Editorial change: replaced “may be” with “is”.
32.	S3.7.3.15, 2 nd bullet, last sent.	Editorial change: replaced “may be” with “is”.
33.	S3.7.3.15, new last para.	Added “The seismic soil-structure interaction analysis of the Fire Water Storage Tanks is described in Appendix 3A” at the end of the subsection to provide detail of analysis.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
34.	S3.7.3.16, Item (1), 3 rd sent.	Editorial change: change tense from future to present.
35.	S3.7.3.16, Item (1), last sent.	Editorial change: replaced “will insure” with “ensure”.
36.	S3.7.3.17, 1 st para., 1 st sent.	Editorial change: replaced “may be” with “is”.
37.	S3.7.3.17, 1 st para., Item (3)	Editorial change: changed tense from future to present.
38.	S3.7.3.17, new last para.	Added new last paragraph in response to RAI 3.12-15 S2.
39.	S3.7.4, last sent.	Inserted “safety-related” after “...seismic response of” and deleted “important to safety” for clarity (no technical changes). “Important to safety” is no longer defined in Tier 1.
40.	S3.7.4.2.1, last para., last sent.	Rewritten for clarity.
41.	S3.7.6, new item	Added new Item 3.7-17 in response to RAI 3.12-21 S2.
42.	T3.7-1, Row 6	Replaced piping damping value with “4.0” for consistency with RG 1.61 Rev. 1.
43.	T3.7-1, Row 7 & 8	Deleted rows.
44.	T3.7-1, Row 12, Column 2	Replaced superscript “1” with “2” to correct note reference number (no technical changes).
45.	T3.7-1, Note 2a	Editorial change: replaced “If” with “When”.
46.	T3.7-1, Note 2b	Editorial change: changed tense from future to present.
47.	T3.7-1, Note 2c	Editorial changes: changed tense from future to present, replaced “6 ft.” with “1.83 m (6 ft)” and additional editorial changes.
48.	T3.7-1, Note 2d	Editorial change: changed tense from future to present.
49.	T3.7-2, Title	Added “at Foundation Level” for clarity (no technical changes).
50.	T3.7-3, Computer Program Column	Replaced “SASSI” with “SASSI2000” for clarity (no technical changes).

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
51.	T3.7-3, 3 rd row, last column	Inserted “max. forces, moments” before “acceleration...” and “max relative displacements” after “...spectra” per revised analysis.
52.	T3.7-3, 4 th row, last column	Inserted “and” after “...acceleration” and deleted “and max. relative displacements” per revised analysis.
53.	T3.7-3, 5 th row, last column	Inserted “max. forces, moments” before “acceleration...” per revised analysis.
54.	T3.7-3, 6 th row, last column	Inserted “and” after “...acceleration” and deleted “and max. relative displacements” per revised analysis.
55.	T3.7-3, 7 th row, last column	Inserted “max. forces, moments” before “acceleration...” per revised analysis.
56.	T3.7-3, new last two rows	Added summary of methods of seismic analysis for the “Fire Water Service Complex”.
57.	F3.7-1 thru 3.7-23, 3.7-25, 3.7-27, 3.7-29, 3.7-31, 3.7-33, 3.7-35 & 3.7-37	Replaced with higher resolution to meet NRC requirements.
58.	F3.7-37, Note, 1 st sent.	Editorial change: changed “may be” with “is”.
59.	F3.7-37, Note (1), 1 st sent.	Revised to read “ When frequency-dependent damping is used, it is done completely and consistently” for clarity (no technical changes).
60.	F3.7-37, Note (2), 1 st sent.	Editorial change: replaced “may be” with “is”.

Tier 2 Section 3.8 Revision 3 to Revision 4 Change List

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	S3.8	Replaced “the Reactor Building (RB), the Control Building (CB) and the Fuel Building (FB)” with “Reactor Building (RB), Control Building (CB), Fuel Building (FB) and Fire Water Service Complex (FWSC)”.
2.	S3.8.1.1.1, 1 st para., 1 st & 2 nd sent.	Editorial changes.
3.	S3.8.1.1.1, 2 nd para., 1 st sent.	Replaced “suppression chamber” with “wetwell” for consistency.
4.	S3.8.1.1.1, 2 nd para., 3 rd sent.	Deleted “chamber” and replaced “suppression chamber” with “wetwell”.
5.	S3.8.1.1.2, 1 st para., last sent.	Replaced “suppression chamber” with “wetwell” for consistency.
6.	S3.8.1.1.2, 2 nd para., 2 nd sent.	Editorial change.
7.	S3.8.1.1.2, last para., last sent.	Replaced “suppression chamber” with “wetwell” for consistency.
8.	S3.8.1.1.3, 3 rd para., 1 st sent.	Replaced “suppression chamber” with “wetwell” for consistency.
9.	S3.8.1.3.5, Item 4a, 1 st sent.	Editorial change.
10.	S3.8.1.3.5, Item 4a, 2 nd sent.	Changed tense from future to present.
11.	S3.8.1.3.5, Item 4b, 2 nd sent.	Changed tense from future to present.
12.	S3.8.1.3.5, Item 4c, 2 nd sent.	Changed tense from future to present.
13.	S3.8.1.4.1.1.3, 1 st sent.	Replaced “suppression chamber” with “wetwell” for consistency.
14.	S3.8.1.4.1.1.4, 2 nd sent.	Changed “when the as-built properties becomes available” to “using as-built properties” for clarity (no technical changes).
15.	S3.8.1.4.1.4, last para.	Editorial change: added “Subsection” before “3.8.1.7.3”.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
16.	S3.8.1.4.2	Revised to read “A deterministic analysis is performed to determine the ultimate capacity of the containment and the details are described in Appendix 19B. A probabilistic analysis for containment pressure fragility is also performed and the details are described in Appendix 19C.” for clarification.
17.	S3.8.1.6.1, Item (1), 2 nd para.	Rewritten for clarity (no technical changes).
18.	S3.8.1.6.1, Item (4), 8 th sent.	Changed tense from future to present.
19.	S3.8.1.6.4, 2 nd para., 1 st sent.	Changed “to CC-2700” to “through CC-2700” for clarity (no technical changes).
20.	S3.8.1.6.4, 2 nd para., 2 nd sent.	Changed tense from future to present.
21.	S3.8.1.6.4, last para.	Changed tense from future to present.
22.	S3.8.1.7.1, 1 st para., 3 rd , 5 th & 6 th sent.	Replaced “suppression chamber” with “wetwell” for consistency.
23.	S3.8.1.7.1, 1 st para., last sent.	Rewritten for clarity.
24.	S3.8.1.7.1, 2 nd para., 1 st sent.	Replaced “suppression chamber” with “wetwell” for consistency.
25.	S3.8.1.7.3.2, 1 st para., 1 st sent.	Revised to read, “During the detailed design phase, the goal is to minimize the number of inaccessible areas in order to reduce the number of exclusion areas.” For clarity (no technical changes).
26.	S3.8.1.7.3.2, 1 st para., 2 nd sent.	Changed tense from future to present.
27.	S3.8.1.7.3.2, Item 1d, 2 nd sent.	Changed tense from future to present.
28.	S3.8.1.7.3.3	Changed tense from future to present.
29.	S3.8.1.7.3.4, 1 st & 2 nd para.	Changed tense from future to present.
30.	S3.8.1.7.3.5	Changed tense from future to present.
31.	S3.8.1.7.3.6	Changed tense from future to present.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
32.	S3.8.1.7.3.7, 1 st & 2 nd sent.	Changed tense from future to present.
33.	S3.8.1.7.3.8	Changed tense from future to present.
34.	S3.8.1.7.3.9	Changed tense from future to present.
35.	S3.8.1.7.3.10, 1 st & 3 rd sent.	Changed tense from future to present.
36.	S3.8.1.7.3.11	Changed tense from future to present.
37.	S3.8.1.7.3.12	Changed tense from future to present.
38.	S3.8.2.1, new Item 5	Added new Item 5 (“PCCS Condenser”) in response to RAI 6.2-102 S1.
39.	S3.8.2.1.2, 1 st para., last sent.	Replaced “suppression chamber” with “wetwell” for consistency.
40.	S3.8.2.1.3, 3 rd para., 4 th sent.	Inserted “Division 2,” after “Section III” for clarity (no technical changes).
41.	S3.8.2.1.5, New	Added new Subsection 3.8.2.1.5 “PCCS Condenser” in response to RAI 6.2-102 S1.
42.	S3.8.2.4.1.5, New	Added new Subsection 3.8.2.4.1.5 “PCCS Condenser” in response to RAI 6.2-102 S1.
43.	S3.8.2.6, 1 st para., 1 st sent.	Deleted “and” & inserted “and PCCS condensers” after “drywell head” in response to RAI 6.2-102 S1.
44.	S3.8.2.6, 1 st para., new bullet	Inserted new bulleted item (“Tubes”), after the 3 rd bullet in response to RAI 6.2-102 S1.
45.	S3.8.2.6, 1 st para., 4 th bullet	Inserted bolting material “or SA-193-B8” after “SA-193-B7” in response to RAI 6.2-102 S1.
46.	S3.8.2.6, 1 st para., 4 th bullet	Inserted “or SA-540 Gr. B24 Class 3” as bolting material and “or SA-479 Type 304” as nut material to be in accordance with F3G.1-51 through F3G.1-53.
47.	S3.8.3.1, 3 rd para., 1 st sent.	Replaced “suppression chamber” with “wetwell” for consistency.
48.	S3.8.3.1, last para.	Editorial change.
49.	S3.8.3.1.1, 1 st para., 1 st sent.	Replaced “suppression chamber” with “wetwell” for consistency.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
50.	S3.8.3.1.1, last para., last sent.	Replaced “suppression chamber” with “wetwell” for consistency.
51.	S3.8.3.4.2, 2 nd para., 1 st sent.	Editorial change.
52.	S3.8.4, 1 st sent.	Replaced “and Fuel Building (FB)” with “Fuel Building (FB) and Fire Water Service Complex (FWSC)”.
53.	S3.8.4, new 5 th sent.	Inserted new 5 th sentence describing the FWSC.
54.	S3.8.4.1.1, 5 th para., 2 nd sent.	Editorial change: replaced “temporary” with “embedded”.
55.	S3.8.4.1.1, 7 th para., 1 st sent.	Editorial change.
56.	S3.8.4.1.2, last para., 1 st sent.	Editorial change.
57.	S3.8.4.1.3, last para., 1 st sent.	Editorial change.
58.	S3.8.4.1.4, new	Added description of the “Fire Water Service Complex”.
59.	S3.8.4.2.3, 2 nd sent.	Editorial change.
60.	S3.8.4.2.5, 1 st para., 1 st sent.	Editorial change.
61.	S3.8.4.2.6, new	Added applicable codes, standards and specifications for “Fire Water Service Complex”.
62.	S3.8.4.3.1.1, 2 nd para., “D” description	Revised to read “Dead load of the structure and equipment plus any other permanent loads, including vertical and lateral pressures of liquids.”
63.	S3.8.4.3.5, new	Added loads and load combination details for “Fire Water Service Complex”.
64.	S3.8.4.4.2, 1 st sent.	Editorial change.
65.	S3.8.4.4.3, new	Added design and analysis procedures for “Fire Water Service Complex”.
66.	S3.8.4.5.2	Editorial change.
67.	S3.8.4.5.3	Revised entire subsection to read “The acceptance criteria for the design of the Fuel Building are same as the Reactor Building in Subsection 3.8.4.5.1.”

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
68.	S3.8.4.5.5, new	Added structural acceptance criteria for “Fire Water Service Complex”.
69.	S3.8.4.6	Editorial change.
70.	S3.8.4.6.1, 1 st sent.	Deleted “The specified compressive strength is 34.5 MPa (5000 psi)” and additional editorial change.
71.	S3.8.4.6.2	Editorial change.
72.	S3.8.4.6.3	Editorial change.
73.	S3.8.4.6.3	Added “Welding of reinforcing bars complies with all the applicable requirements of ASME Code Section III, Division 2.” in response to RAI 3.8-76 S2.
74.	S3.8.4.6.4, 1 st sent.	Changed tense from future to present and additional editorial change.
75.	S3.8.4.6.5	Revised entire subsection.
76.	S3.8.4.6.6, new	Added new Subsection 3.8.4.6.6, “Structural Steel Including Plates”.
77.	S3.8.5.1, last para., 2 nd sent.	Editorial change.
78.	S3.8.5.1, new last para.	Added description of the FWSC foundation.
79.	S3.8.5.4, 4 th para., 1 st sent.	Replaced “mat is” with “mats for the Concrete Containment, RB/FB, CB and FWSC are” and “Sections 3.8.1.4.1.1 and 3.8.4.4.1” with “Subsections 3.8.1.4.1.1, 3.8.4.4.1 and 3.8.4.4.3”.
80.	S3.8.5.4, 9 th para., 3 rd sent.	Replaced 3 rd sentence with the following sentence: “Stability of subsurface materials and foundations are addressed in Table 2.0-2, Subsection 2.5.4.”
81.	S3.8.5.4, last para.	Replaced “the CB and the FB” with “CB, FB and FWSC”.
82.	S3.8.5.5, 1 st para., last sent.	Replaced “and FB” with “FB and FWSC”.
83.	T3.8-2, Note 5, 1 st sent.	Editorial change.
84.	T3.8-2, Note 5, 3 rd & last sent.	Changed tense from future to present.
85.	T3.8-2, Note 7, last sent.	Changed tense from future to present.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
86.	T3.8-4, Note 1	Editorial change.
87.	T3.8-4, Note 5 & 7	Changed tense from future to present.
88.	T3.8-4, Note 9	Replaced "...and the allowable..." with "...of the ASME B&PV Code. The allowable..."; replaced "...except S_{mc} ..." with "...of the ASME B&PV Code, except that S_{mc} ..."; and changed tense from future to present.
89.	T3.8-6, Note 1	Editorial change.
90.	T3.8-7, Note 2, 3, 5b & 5c	Changed tense from future to present and additional editorial changes.
91.	T3.8-7, Note 6	Replaced "CLD" with "ESBWR Containment Load Definition".
92.	T3.8-8, Title	Replaced "and RW" with "RW and FWSC".
93.	T3.8-8, Reactor Building	Story: Editorial changes. Height: Replaced "63.9 m" with "64.2 m".
94.	T3.8-8, Control Building	Revised the CB key dimensions, incorporating the CB design change (making entire CB Seismic Category I). Story: Replaced "one story (above grade)" with "Two stories (above grade)"; deleted the note "Excluding the penthouse" and additional editorial change. Height: Replaced "16.46 m" with "21.20 m" and replaced the note "(excluding the penthouse)" with "*".
95.	T3.8-8, Fuel Building	Story: Editorial changes. Height: Added "*" after "mat".
96.	T3.8-8, FWSC (new)	Added FWSC key dimensions.
97.	T3.8-9, Note 1	Editorial changes.
98.	T3.8-10 & T3.8-11, Title	Editorial changes.
99.	T3.8-13, new last row	Added the key dimensions of the Fire Water Service Complex foundation.
100.	T3.8-15, Note 2 & 4	Changed tense from future to present and additional editorial changes.
101.	T3.8-16, Note 2, 4, 5b & 5c	Changed tense from future to present and additional editorial changes.

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
102.	T3.8-17, new	Added new Table 3.8-17 “PCCS Passages Through RCCV Top Slab” in response to RAI 6.2-102 S1.
103.	T3.8-18, new	Added new Table 3.8-18 “Temperatures During Operating Conditions (FWSC)”.
104.	F3.8-1	Replaced “Suppression Chamber” with “Wetwell” for consistency & replaced figure with higher resolution to meet NRC requirements.
105.	F3.8-3 thru 3.8-11	Replaced figure with higher resolution to meet NRC requirements.
106.	F3.8-12, new	Added new Figure 3.8-12 “RB Floor composite Slab”.