

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1-xvii	Acronyms and Abbreviations	Deleted “system” from the definition of CS. Replaced “spray” in the definition of CVVS with “ventilation”. Editorial: Correct acronym error
1-xviii	Acronyms and Abbreviations	Changed acronym “EAP” to “EAB”. Editorial: Correct acronym error
1-xix	Acronyms and Abbreviations	Editorial Changed acronym “IAP” to “IAS”. Editorial: Correct acronym error
1-xxi	Acronyms and Abbreviations	Replaced “system” in the definition of RWSAT with “tank”. Replaced “pump” in the definition of SIS with “system”. Editorial: Correct acronym error
1-xxii	Acronyms and Abbreviations	Changed acronym “T/B” as “turbine generator” to “T/G”. Editorial: Correct acronym error
1-3	Definition of “Design plant grade”	Replace the definition of “design plant grade” with the following for clarification Design plant grade means the elevation of the soil around the nuclear island assumed in the design (i.e., “plant grade” or “finished grade level”) in relation to plant structures to which other plant elevations are correlated and which is set at 2’-7”. Editorial: Clarify scope of statement
1-5	1.4.3 Last sentence of fifth paragraph	Replaced “will be” with “is”. Editorial: Correct grammatical error
1-6	1.4.4 Second bullet of the second paragraph	Replaced “will be” with “are”. Editorial: Correct grammatical error

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.1-2	Table 2.1-1 (Sheet 1 of 5) 3 rd Row, 1 st Column	Change: "100-year snowpak maximum snow weight (roof)" to "Roof Snow Load (100-year snowpack maximum snow weight including contributing portion of 48-hour probable maximum winter precipitation [PMWP])" Editorial: Correct typographical error [RAI23 02.03.01-1], and clarify roof snow load [RAI23 02.03.01-10]
2.1-2	Table 2.1-1 (Sheet 1 of 5) 3 rd Row, 2 nd Column	Change: "50 lb/ft ² " to "75 lb/ft ² " Editorial: Clarify design roof snow load [RAI23 02.03.01-10]
2.1-2	Table 2.1-1 (Sheet 1 of 5) 4 th Row, 1 st Column	Change: "Weight of 48-hr maximum probable maximum winter precipitation" to "Weight of 48-hr PMWP" Editorial: Remove redundant word and utilize acronym
2.1-2	Table 2.1-1 (Sheet 1 of 5) 10 th Row, 2 nd Column	Change: "... above ground level" to "...above ground level based on 100-year return period, with importance factor of 1.15 for seismic category I/II structures" Editorial: Clarify scope of statement [RAI 23, 02.03.01-2]
2.1-2	Table 2.1-1 (Sheet 1 of 5) 11 th Row, 1 st Column	Insert new row and add data: "Ambient design air temperature (1% annual exceedance maximum)" Editorial: Add inadvertently omitted parameters [RAI 23, 02.03.01-6]
2.1-2	Table 2.1-1 (Sheet 1 of 5) 11 th Row, 2 nd Column	Insert new row and add data: "100°F dry bulb, 77°F coincident wet bulb, 81°F non-coincident wet bulb" Editorial: Add inadvertently omitted parameters [RAI 23, 02.03.01-6]
2.1-2	Table 2.1-1 (Sheet 1 of 5) 12 th Row, 1 st Column	Change: "(0% exceedance maximum)" to "(0% annual exceedance maximum)"
2.1-2	Table 2.1-1 (Sheet 1 of 5) 13 th Row, 1 st Column	Insert new row and add data: "Ambient design air temperature (1% annual exceedance minimum)" Editorial: Add inadvertently omitted parameter [RAI 23, 02.03.01-6]
2.1-2	Table 2.1-1 (Sheet 1 of 5) 13 th Row, 2 nd Column	Insert new row and add data: "-10°F dry bulb" Editorial: Add inadvertently omitted parameter [RAI 23, 02.03.01-6]

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.1-2	Table 2.1-1 (Sheet 1 of 5) 14 th Row, 1 st Column	Change: "(0% exceedance minimum)" to "(0% annual exceedance minimum)"
2.1-4	Table 2.1-1 (Sheet 3 of 5) 2 nd Row , 1 st Column	Changed "A/B releases (sampling system line) ⁽⁷⁾ " to "A/B releases (Reactor coolant system sample line) ⁽⁷⁾ " Editorial: Clarify scope of statement
2.1-4	Table 2.1-1 (Sheet 3 of 5) 2 nd Row , 2 nd Column	Changed "8.3 x 10 ⁻⁴ " to "8.4 x 10 ⁻⁴ " Technical: Reflect design enhancement
2.1-4	Table 2.1-1 (Sheet 3 of 5) 5 th Row, 2 nd Column	Changed "7.8 x 10 ⁻⁴ " to "7.7 x 10 ⁻⁴ " Technical: Reflect design enhancement
2.1-4	Table 2.1-1 (Sheet 3 of 5) 6 th Row, 2 nd Column	Refer to following. Changed "1.7 x 10 ⁻³ " to "1.4 x 10 ⁻³ " Changed "9.7 x 10 ⁻⁴ " to "8.0 x 10 ⁻⁴ " Changed "6.2 x 10 ⁻⁴ " to "5.1 x 10 ⁻⁴ " Changed "2.7 x 10 ⁻⁴ " to "2.2 x 10 ⁻⁴ " Technical: Reflect design enhancement
2.1-4	Table 2.1-1 (Sheet 3 of 5) 7 th Row, 1 st Column	Changed " Ground-level containment releases to Class 1E electrical room HVAC intake ⁽⁹⁾ " to " Ground-level containment releases to Class 1E electrical room HVAC intake ⁽⁴⁾ " Technical: Reflect design enhancement
2.1-4	Table 2.1-1 (Sheet 3 of 5) 8 th Row, 1 st & 2 nd Columns	Line of " Ground-level containment releases to Class 1E electrical room HVAC intake ⁽¹⁰⁾ " is deleted. Technical: Reflect design enhancement
2.1-5	Table 2.1-1 (Sheet 4 of 5) 4 th Row, 1 st Column	Changed "A/B releases (sampling system line) ⁽⁷⁾ " to "A/B releases (Reactor coolant system sample line) ⁽⁷⁾ " Editorial: Clarify scope of statement

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.1-5	Table 2.1-1 (Sheet 4 of 5) 4 th Row, 2 nd Column	<p>Changed “5.1 x 10⁻³” to “4.9 x 10⁻³”</p> <p>Changed “3.0 x 10⁻³” to “2.9 x 10⁻³”</p> <p>Changed “1.9 x 10⁻³” to “1.8 x 10⁻³”</p> <p>Changed “8.4 x 10⁻⁴” to “8.1 x 10⁻⁴”</p> <p>Technical: Changed plant arrangement</p>
2.1-5	Table 2.1-1 (Sheet 4 of 5) 9 th Row, 2 nd Column	<p>Change: “19.4 in/hr with importance factor of 1.2 for category I/II structures” to “19.4 in/hr for seismic category I/II structures”</p> <p>Editorial: Remove erroneous reference to importance factor and clarify type of category [RAI 13 02.04-1]</p>
2.1-5	Table 2.1-1 (Sheet 4 of 5) 10 th Row, 2 nd Column	<p>Change: “6.3 in/5 min, with importance factor of 1.2 for category I/II structures” to “6.3 in/5 min for seismic category I/II structures”</p> <p>Editorial: Remove erroneous reference to importance factor and clarify type of category [RAI 13 02.04-1]</p>
2.1-6	Table 2.1-1 (Sheet 5 of 5) 12 th Row, 1 st Column	<p>Change: “Subsurface stability – mean minimum shear wave velocity at SSE input at ground surface” to “Subsurface stability – minimum shear wave velocity at SSE input at ground surface”</p> <p>Editorial: Clarify Parameter Value in analysis is an exact value</p>
2.1-6	Table 2.1-1 (Sheet 5 of 5) 12 th Row, 2 nd Column	<p>Change: “~1,000 ft/s” to “1,000 ft/s”</p> <p>Editorial: Clarify Parameter Value used in analysis</p>
2.1-6	Table 2.1-1 (Sheet 5 of 5) 13 th Row, 1 st Column	<p>Change: “Subsurface stability – mean shear wave velocity for defining firm rock” to “Subsurface stability – shear wave velocity for defining firm rock”</p> <p>Editorial: Clarify Parameter Value in analysis is an exact value</p>
2.1-6	Table 2.1-1 (Sheet 5 of 5) 13 th Row, 2 nd Column	<p>Change: “≥3,500 ft/s” to “3,500 ft/s”</p> <p>Editorial: Clarify Parameter Value used in analysis</p>

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.1-6	Table 2.1-1 (Sheet 5 of 5) 14 th Row, 1 st Column	Change: “Subsurface stability – mean shear wave velocity for defining firm to hard rock” to “Subsurface stability – shear wave velocity for defining firm to hard rock” Editorial: Clarify Parameter Value in analysis is an exact value
2.1-6	Table 2.1-1 (Sheet 5 of 5) 14 th Row, 2 nd Column	Change: “~6,500 ft/s” to “6,500 ft/s” Editorial: Clarify Parameter Value used in analysis
2.1-6	Table 2.1-1 (Sheet 5 of 5) 15 th Row, 1 st Column	Change: “Subsurface stability – mean shear wave velocity for defining hard rock” to “Subsurface stability – shear wave velocity for defining hard rock” Editorial: Clarify Parameter Value in analysis is an exact value
2.1-6	Table 2.1-1 (Sheet 5 of 5) 15 th Row, 2 nd Column	Change: “≥8,000 ft/s” to “8,000 ft/s” Editorial: Clarify Parameter Value used in analysis
2.1-6	Notes	4.; Changed “used in cases of a” to “used for a ” 5.; Changed “used in cases of a” to “used for a ” 6.; Changed “used in the cases of a” to “used for a ” 7.; Changed “used in cases of a” to “used for a ” 8.; Changed “used in cases of a” to “used for a ” 9.; Changed “used in cases of a” to “used for a ” 10.; Changed “used in cases of a” to “used for a ” Editorial: Clarify scope of statement
2.2-1	2.2.1, 2 nd paragraph 2 nd sentence	Changed “wall thickness” to “concrete thickness”. Editorial: Change word to provide a specific clarity
2.2-1	2.2.1.1, 1 st bullet	Added “and” before “steam line and ”. Editorial: Change word to provide a specific clarity
2.2-3	2.2.1.2, last sentence	Changed “containment” to “PCCV”. Editorial: Change word to provide a specific clarity

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.2-3	2.2.1.3, 1 st sentence	Changed "Containment internal structures to the PCCV" to "Containment internal structures in the PCCV". Editorial: Correct typographical error
2.2-5	2.2.1.5, 1 st sentence	Changed "underground structure" and "and classified" to "an underground structure" and "and is classified" respectively. Editorial: Change word to provide a specific clarity
2.2-27	Table 2.2-4 Item 1 (2 nd Row, 3 rd Colum)	Changed "Figures 2.2-1 through 2.2-14" to "Figures 2.2-1 through 2.2-13". Editorial: Correct reference error
2.2-33	Figure 2.2-4	Relocated the opening of the A Class 1E Room as well as those of the B, C, and D Rooms. Technical: Changed plant arrangement
2.2-34	Figure 2.2-5	Relocated the Class 1E battery rooms in the PS/B from the R/B. Relocated the entrance for the B-Piping Penetration Area as well as that for the C Area. Technical: Changed plant arrangement
2.2-35	Figure 2.2-6	Added the opening to access the roof of the east PS/B. Technical: Changed plant arrangement Replaced "B" with "A" of the Class 1E Electrical Room AHU each other. Replaced "C" with "D" of the Class 1E Electrical Room AHU each other. Replaced "B" with "A" of the MCR AHU each other. Replaced "C" with "D" of the MCR AHU each other. Editorial: Provide consistent with Tier 2
2.2-36	Figure 2.2-7	Relocated the Remote Shutdown Console Room. Technical: Changed plant arrangement Replaced "CRDM Panel Room" with "CRDM Cabinet Room". Editorial: Provide consistent with Tier 2

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.2-38	Figure 2.2-9	Deleted "A,B-Main Steam /Feedwater Piping Area AHU" and "C,D-Main Steam /Feedwater Piping Area AHU". Editorial: Provide consistent with Tier 2
2.2-39	Figure 2.2-10	Added "Raised Floor" in the Main Control Room. Same as Figure 2.2-9. Editorial: Provide consistent with Tier 2
2.2-40	Figure 2.2-11	Replaced the platforms around the SGs. Editorial: Provide consistent with Tier 2
2.2-41	Figure 2.2-12	Added the openings to access the PSFSVs. Technical: Changed plant arrangement
2.3-4	2.3.1, Component Stress Analysis, 1 st sentence	Changed "core structures are stress evaluated to requirements of" to "core structures are analyzed and designed to the requirements of". Editorial: Clarify scope of statement
2.3-4	2.3.1, Component Stress Analysis, 4 th sentence	Insert the following text after the third sentence of the first paragraph. "The requirements of the ASME Code Section III, Subsection NG are used in core support structure stress qualification." Editorial: Clarify scope of statement
2.3-4	2.3.1, Component Stress Analysis, 1 st bullet	Changed "core structures" in the second sentence to "core support structures". Editorial: Clarify scope of statement
2.3-5	2.3.2, Generic Design and Specific-System ITAAC, Title	Changed "Generic and Specific-System ITAAC" to "Generic Design and Specific-System ITAAC". Editorial: Clarify scope of statement

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.3-5	2.3.2, Generic Design and Specific-System ITAAC	<p>Changed “The piping systems and components ITAAC are divided into the generic portion and the system specific portion. The high-energy and moderate-energy piping systems are listed in Tables 2.3-1. The specific-system ITAAC apply to certain parts, sections, or SSCs of specific systems. The ITAAC for generic piping systems and component design are located in Table 2.3-2. The ITAAC for specific piping systems and component design are located in their respective fluid system sections, such as Section 2.4, Reactor Systems, Section 2.7, Plant Systems, and Section 2.11, Containment Systems.” to “The piping systems and components ITAAC are divided into generic design ITAAC and the system specific ITAAC. The high-energy and moderate-energy piping systems are listed in Tables 2.3-1. The ITAAC for generic piping systems and component design are located in Table 2.3-2. The ITAAC for specific piping systems and components, other than design ITAAC, are located in their respective fluid system sections, such as Section 2.4, Reactor Systems, Section 2.7, Plant Systems, and Section 2.11, Containment Systems.”</p> <p>Editorial: Clarify scope of statement</p>
2.3-8	Title of Table	<p>Deleted (Sheet 1 of 2) from the title.</p> <p>Editorial: Provide consistent title for this revision.</p>
2.3-8	Table 2.3-2 ITAAC items 1 and 2 (2 nd Row, 2 nd Colum) (2 nd Row, 3 rd Colum)	<p>Deleted “Refer to each piping system and component ITAAC in each subsection.”</p> <p>Editorial: Clarify scope of statement.</p>
2.3-8	Table 2.3-2 ITAAC item 1 (2 nd Row, 3 rd Colum)	<p>Changed “The design report demonstrates assurance that the design requirements of the ASME Code Section III are met.” to “The results of the analysis conclude that the design requirements of the ASME Code Section III are met.”.</p> <p>Editorial: Clarify scope of statement</p>
2.3-8	Table 2.3-2	<p>Deleted former ITAAC #2, 4, 5.</p> <p>Editorial: Clarify scope of statement and eliminate duplicated ITAAC.</p>

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.3-8	Table 2.3-2 ITAAC item 2 (3 rd Row, 1 st Colum)	Changed “A LBB evaluation is performed in RCPB and MSS piping accordance with the LBB method.” to “RCPB and MSS piping systems are designed in accordance with the LBB method”. Editorial: Clarify scope of statement
2.3-8	Table 2.3-2 ITAAC item 2 (3 rd Row, 2 nd Colum)	Changed “A LBB analysis will be performed for each piping system applied by the LBB method.” to “A LBB analysis using the LBB method will be performed for each RCPB and MSS piping system.” Editorial: Clarify scope of statement
2.3-8	Table 2.3-2 ITAAC item 2 (3 rd Row, 3 rd Colum)	Changed “The LBB evaluation report exists and documents that LBB acceptance criteria confirms that the bounding limits of acceptable piping stress values are complied with the LBB assumptions.” to “The results of the LBB analysis conclude that the stress values conform to the LBB acceptance criteria using the LBB assumptions.” Editorial: Clarify scope of statement
2.3-8	Table 2.3-2 ITAAC item 3	Added new design ITAAC for Class 2 and 3 piping systems and components. Editorial: Clarify scope of statement
2.3-8	Table 2.3-2 ITAAC item 4 (5 th Row, 3 rd Colum)	Changed “The pipe break analysis report exists and concludes ~” to “The results of the pipe break analysis of the as-built high-energy pipe lines concludes~” Editorial: Change word to provide consistency
2.4-1	2.4.1.1, Location and Functional Arrangement	Changed “all reactor system functions” in the second sentence to “All reactor system”. Changed “the reactor core, the fuel,” in the second sentence to “the reactor internals, fuel assemblies”. Changed “the fuel” in the third sentence to “the fuel assemblies”. Editorial: Change word to provide consistency and specific clarity

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.4-1	2.4.1.1, Key Design Features	<p>Changed “The fuel” and “will” in the third sentence of the first paragraph to “The fuel assembly” and “does” respectively.</p> <p>Changed “align the core” in the first sentence of the fourth paragraph to “align the fuel assemblies”.</p> <p>Editorial: Change word to provide consistency and specific clarity</p>
2.4-2	2.4.1.1, Key Design Features	<p>Changed the third sentence of fifth paragraph “The vessel contains no penetrations below the coolant nozzles” to “No penetrations are located below the top of the reactor core”.</p> <p>Editorial: Change word to provide specific clarity</p>
2.4-2	2.4.1.1, Seismic and ASME Code Classification	<p>Replaced “it will withstand a design-basis earthquake and retain” with “it withstands a design-basis earthquake and retains”.</p> <p>Editorial: Change word to provide consistency.</p>
2.4-3	2.4.1.1, System Operation	<p>Replaced “gravity will drop” with “gravity drops”.</p> <p>Editorial: Change word to provide consistency</p>
2.4-3	2.4.1.1, Logic	<p>Replaced “will trigger” with “triggers”.</p> <p>Editorial: Change word to provide consistency</p>
2.4-3	2.4.1.1, Logic	<p>Changed “as will loss of electrical power” to “as well as in case of loss of electrical power”</p> <p>Editorial: Correct grammatical error</p>
2.4-4	Table 2.4.1-1	<p>Added Note “3. Qualification for harsh environment is not required for post-accident environmental condition” for “Source Range Neutron Flux”, “Intermediate Range Neutron Flux”, and “Power Range Neutron Flux”.</p> <p>Editorial: Clarify scope of statement</p>
2.4-4	Table 2.4.1-1 12 th Row, 5 th Column 13 th Row, 5 th Column 14 th Row, 5 th Column	<p>Added Note 2.</p> <p>Editorial: Clarify scope of statement</p>
2.4-5 through 2.4-7	Title of Table 2.4.1-2	<p>Changed the sheet number “(Sheet X of 1)” to “(Sheet X of 3)”.</p> <p>Editorial: Correct sheet number error</p>

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.4-5	Table 2.4.1-2 ITAAC item 1	Deleted ITAAC item 1. Editorial: Delete duplicated design ITAAC
2.4-6	Table 2.4.1-2, item 10 (4 th Row, 1 st Colum)	Changed “components” to “equipment”. Editorial: Change word to provide consistency
2.4-8	Figure 2.4.1-1	Changed “Outlet” and “Fuel” to “Outlet Nozzle” and “Fuel Assembly” respectively. Editorial: Correct component description
2.4-11	2.4.2.1, Location and Functional Arrangement	Removed first sentence “RCS components are located within the containment”. Editorial: Removed superfluous description
2.4-16	Table 2.4.2-2 (Sheet 2 of 4) 11 th Row, 6 th Colum	Added Note “1. Qualification for harsh environment is not required for post-accident environmental condition” for “Rector Coolant Flow”. Editorial: Clarify scope of statement
2.4-18	Table 2.4.2-2 (Sheet 4 of 4) 3 rd Row, 6 th Colum	Added Note “1. Qualification for harsh environment is not required for post-accident environmental condition” for “Rector Coolant Pump Speed” and “Rector Coolant Pump Speed (spare)”. Editorial: Clarify scope of statement
2.4-21	Table 2.4.2-5 (Sheet 1 of 5) ITAAC item 1a and 1b	Deleted ITAAC items 1a and 1b. Editorial: Delete duplicated design ITAAC
2.4-35 through 38	Table 2.4.4-2 title	Replaced “(Sheet X of 5)” with “(Sheet X of 4)”. (X: 1 through 4) Editorial: Correct sheet number error
2.4-36	Table 2.4.4-2 (Sheet 2 of 4) 8 th Row, 2 nd Colum	Change: "VLV" to "AOV" Editorial: Correct valve Tag No. error
2.4-36	Table 2.4.4-2 (Sheet 2 of 4) 8 th Row, 5 th Colum	Change: "-" to "Yes" Editorial: Correct valve function to meet the design

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.4-36	Table 2.4.4-2 (Sheet 2 of 4) 8 th Row, 6 th Colum	Change"-/" to "Yes/No" Editorial: Correct valve function to meet the design
2.4-36	Table 2.4.4-2 (Sheet 2 of 4) 8 th Row, 7 th Colum	Change"- to " Transfer Closed" Editorial: Correct valve function to meet the design
2.4-36	Table 2.4.4-2 (Sheet 2 of 4) 8 th Row, 8 th Colum	Change "- to " Closed" Editorial: Correct valve function to meet the design
2.4-36	Table 2.4.4-2 (Sheet 2 of 5) 9 th Row, 7 th Colum	Change "- to " Transfer Closed" Editorial: Correct valve function to meet the design
2.4-38	Table 2.4.4-2	Deleted "Accumulator Pressure", "Safety Injection Pump Suction Pressure", "Safety Injection Pump Discharge Pressure", and "Refueling Water Storage Pit Water Level" from previous Table 2.4.4-2 (Sheet 5 of 5). Editorial: Removed superfluous description
2.4-38	Table 2.4.4-2 (Sheet 4 of 5) 4 th Row, 2 nd Colum	Deleted Tag No. "911", "921", "931", and "941". Editorial: Correct Tag No. error.
2.4-41	Table 2.4.4-4 (Sheet 2 of 2) 2 nd Row, 1 st Colum	Deleted Tag No. "911", "921", "931", and "941". Editorial: Correct Tag No. error.
2.4-41	Table 2.4.4-4 (Sheet 2 of 2)	Added Note "1. Alarm function is not required for "RWS-LT-1400" and "RWS-LT-1402"" for "Refueling Water Storage Pit Water Level". Editorial: Clarify scope of statement
2.4-46	Table 2.4.4-5 (Sheet 5 of 6) 1 st Colum,4 th Row	Added ", air-operated" after "The motor-operated" Editorial: Clarify scope of statement

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.4-46	Table 2.4.4-5 (Sheet 5 of 6) 2 nd Colum,4 th Row	Added "and air-operated" after "motor-operated" Editorial: Clarify scope of statement
2.4-46	Table 2.4.4-5 (Sheet 5 of 6) 3 rd Colum, 4 th Row	Added "and air-operated" after "motor-operated" Editorial: Clarify scope of statement
2.4-46	Table 2.4.4-5 (Sheet 5 of 6) 2 nd Colum,5 th Row	Added "and air-operated" after "motor-operated" Editorial: Clarify scope of statement
2.4-46	Table 2.4.4-5 (Sheet 5 of 6) 3 rd Colum,5 th Row	Added "and air-operated" after "motor-operated" Editorial: Clarify scope of statement
2.4-51	Figure 2.4.4-1 (Sheet 3 of 4)	Changed "VLV-114" to "AOV-114" and modified valve symbol from manual valve to AOV. Editorial: Correct valve Tag No. error
2.4-75	Table 2.4.6-1 17 th Row, 1 st Colum	Replaced "Volume Control Tank Outlet Valve-Second(CVS-LCV-121C) with " Volume Control Tank Outlet Valve(CVS-LCV-121B,C). Editorial: Correct valve Tag No. error
2.4-76	Table 2.4.6-2 (Sheet 1 of 4) 12 th Row, 7 th Colum	Replaced "Transfer Open" with "Transfer Closed/Open". Editorial: Correct valve function to meet the design
2.4-76	Table 2.4.6-2 (Sheet 1 of 4) 11 th Row	Added column "Volume Control Tank Outlet Valve" and Tag.No" CVS-LCV-121B,C". Added "ASME Code Section III class 2", "Seismic category I yes", "Remotely Operated Valve yes " "Class 1E/Qual.for Harsh Envir. Yes/ yes", "Active Safety function Transfer closed/open" and "Loss of motive power position As Is". Editorial: Clarify scope of statement
2.4-77	Table 2.4.6-2 (Sheet 2 of 4) 4 th Row, 7 th Colum	Replaced Active safety function in CVCS Charging Line Isolation Check valve " – " with "Transfer Closed" Editorial: Correct valve function to meet the design

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

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2.4-77	Table 2.4.6-2 (Sheet 2 of 4) 6 th Row, 7 th Colum	Replaced Active safety function in Auxiliary Pressurizer Spray Line Check Valve “ – “ with “Transfer Closed”. Editorial: Correct valve function to meet the design
2.4-77	Table 2.4.6-2 (Sheet 2 of 4) 8 th Row, 7 th Colum	Replaced Active safety function in CVCS Charging Line Isolation Valve “Transfer Close“ with “Transfer Closed”. Editorial: Change word to provide consistent functional description
2.4-77	Table 2.4.6-2 (Sheet 2 of 4) 9 th Row, 7 th Colum	Replaced Active safety function in CVCS Charging Line Check Valve “ – “ with “Transfer Closed” Editorial: Correct valve function to meet the design
2.4-78	Table 2.4.6-2 (Sheet 3 of 4) 2 nd Row, 7 th Colum	Replaced Active safety function in RCP Seal Injection Line Containment Isolation valve “ – “ with “Transfer Closed/Open” Editorial: Correct valve function to meet the design
2.4-78	Table 2.4.6-2 (Sheet 3 of 4) 4 th Row, 7 th Colum	Replaced Active safety function in RCP Seal Injection Line Check valve(first) “ – “ with “Transfer Closed/Open” Editorial: Correct valve function to meet the design
2.4-78	Table 2.4.6-2 (Sheet 3 of 4) 5 th Row, 7 th Colum	Replaced Active safety function in RCP Seal Injection Line Check valve(second) “ – “ with “Transfer Closed/Open” Editorial: Correct valve function to meet the design
2.4-78	Table 2.4.6-2 (Sheet 3 of 4) 7 th Row, 7 th Colum 8 th Row, 7 th Colum 9 th Row, 7 th Colum 10 th Row, 7 th Colum	Replaced Active safety function in RCP Seal Return Line Containment Isolation Valve, RCP Seal Return Line Containment Isolation Valve, Primary Makeup Water Supply Isolation, and Excess Letdown Isolation Valve “Transfer Close“ with “Transfer Closed”. Editorial: Change word to provide consistent functional description
2.4-79	Table 2.4.6-2 (Sheet 4 of 4) 2 nd Row, 7 th Colum 3 rd Row, 7 th Colum	Replaced Active safety function in CVCS Letdown Line Isolation Valve and CVCS Letdown Line Isolation Valve “Transfer Close“ with “Transfer Closed”. Editorial: Change word to provide consistent functional description

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
2.4-80	Table 2.4.6-3 (Sheet 1 of 2) 6 th Row, 1 st Colum	Replaced Pipe Line name in 5 th column “ CVS-MOV-202 “ with “CVS-VLV-202”. Editorial: Correct valve Tag No. error
2.4-82	Table 2.4.6-4 3 rd Row, 1 st Colum 4 th Row, 1 st Colum 5 th Row, 1 st Colum 6 th Row, 1 st Colum	Deleted “Rate” for “Charging Flow Rate”, ”Letdown Flow Rate”, ”RCP Seal Injection Flow Rate”, and ”Primary Makeup Water Supply Flow Rate”. Editorial: Change word to provide consistent equipment name
2.4-83	Table 2.4.6-5 (Sheet 1 of 5) Item 4.a (6 th Row, 1 st , 2 nd , 3 rd Colum)	Replaced “ The ASME Code components of the CVCS” with “The ASME Code Section III components”. Replaced “the as-built ASME code components of the CVCS required” with “the as-built components required by the ASME Code Section III”. Replaced “as-built ASME Code components of the CVCS , identified in Table 2.4.6-2, conform with the requirements in the ASME Code, Section III” with “as-built components identified in Table 2.4.6-2 as ASME Code Section III conform with the requirements of the ASME Code, Section III”. Editorial: Change word to provide consistent description
2.4-83	Table 2.4.6-5 (Sheet 1 of 5) Item 4.b (7 th Row, 1 st , 2 nd , 3 rd Colum)	Replaced “ The ASME Code piping of the CVCS” with “The ASME Code Section III piping”. Replaced “the as-built ASME code piping of the CVCS required” with “the as-built piping required by the ASME Code Section III”. Replaced “as-built ASME Code piping of the CVCS , identified in Table 2.4.6-2, conform with the requirements in the ASME Code, Section III” with “as-built piping identified in Table 2.4.6-2 as ASME Code Section III conform with the requirements of the ASME Code, Section III”. Editorial: Change word to provide consistent description
2.4-83	Table 2.4.6-5 (Sheet 1 of 5) Item 4.b (7 th Row, 1 st Colum)	Replaced “retain their pressure boundary integrity at their design pressure” with “retains its pressure boundary integrity at its design pressure”. Editorial: Correct grammatical error

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.6-10	Figure 2.6.1-1	Replaced "6.9kV" with "13.8kV" on N1 and N2 Non-Class 1E Station Service Transformers. Editorial: Correct the N1 and N2 Non-Class 1E Station Service Transformers description.
2.7-5	2.7.1.2.1, Logic, 3 rd and 4 th bullets	Changed "High main steam pressure" and "Manual" to "High main steam line pressure" and "Manual actuation" respectively. Editorial: Change word to provide consistent description
2.7-13 through 2.7-17	Table 2.7.1.2-5 (Sheets 2 through 6)	Changed table number "Table 2.7.1.2-4" to "Table 2.7.1.2-5". Editorial: Correct Table number error
2.7-16	Table 2.7.1.2-5, item 9.b (2 nd Row, 1 st -3 rd Colum) (3 rd Row, 2 nd Colum)	Changed "pneumatically operated valves" to "air-operated valves" Editorial: Correct typographic error and change word to provide consistent valve description
2.7-29	2.7.1.8.1 Location and Functional Arrangement	Changed "Condensate vessels and their resin traps" in the first bullet to " Condensate prefilters, polishing vessels and their resin traps" Editorial: Change word to provide consistent component description
2.7-32	2.7.1.9.1, Logic, 2 nd bullet	Changed "Emergency core cooling system actuation signal" to "ECCS actuation". Editorial: Change word to provide consistent description
2.7-35	Table 2.7.1.9-4 3 rd Row, 4 th Colum	Replaced "Yes" with "No" for "Control Function" of "Steam Generator Water Level (Wide Range)". Editorial: Correct control function to meet the design
2.7-46	Table 2.7.1.10-3, item1 (2 nd Row, 1 st and 3 rd Colum)	Changed "Subsection 2.7.1.10 Design Description" and "in Figure" to "the Design Description of this Subsection 2.7.1.10" and "on Figure" respectively. Editorial: Change word to provide consistent description
2.7-46	Table 2.7.1.10-3, items 2.a and 2.b	Divided item 2 (for components and piping) to item 2.a (for components) and item 2.b (for piping). Editorial: Change word to provide consistent description

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
2.7-46	Table 2.7.1.10-3, items 3.a and 3.b	Divided item 3 (for components and piping) to item 3.a (for components) and item 3.b (for piping). Editorial: Change word to provide consistent description
2.7-46	Table 2.7.1.10-3, items 4.a and 4.b	Divided item 4 (hydrostatic test for equipment and piping) to item 4.a (for components) and item 4.b (for piping). Editorial: Change word to provide consistent description
2.7-47	Table 2.7.1.10-3, item 8 (8 th Row, 1 st Colum)	Changed “pneumatically operated” to “air-operated”. Editorial: Change word to provide consistent description
2.7-51	2.7.1.11.1, Logic, 4 th and 5 th bullets	Changed “FWS pumps trip” to “MFW pumps trip”. Added “Manual actuation” at the last bullet. Editorial: Change word to provide consistent description and add the missing information.
2.7-56	Table 2.7.1.11-2 (Sheet 3 of 4)	Deleted the item “A-emergency feedwater pump discharge tie line isolation valve”. Editorial: Correct valve function to meet the design
2.7-56	Table 2.7.1.11-2 (Sheet 3 of 4)	Deleted the item “B-emergency feedwater pump discharge tie line isolation valve”. Editorial: Correct valve function to meet the design
2.7-57	Table 2.7.1.11-2 (Sheet 4 of 4)	Deleted the item “C-emergency feedwater pump discharge tie line isolation valve”. Editorial: Correct valve function to meet the design
2.7-57	Table 2.7.1.11-2 (Sheet 4 of 4)	Deleted the item “D-emergency feedwater pump discharge tie line isolation valve”. Editorial: Correct valve function to meet the design
2.7-62	Table 2.7.1.11-5, item 6.b (4 th Row, 2 nd Colum)	Changed “MSS” to “EFWS”. Editorial: Correct acronym error.
2.7-66	2.7.1.12.1 Location and Functional Arrangement	Changed “The SCIS components are located in the turbine building” in the first sentence to “ The SCIS components are located partly in the turbine building and partly outdoors”. Editorial: Clarify scope of statement

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.7-66	2.7.1.12.1 Location and Functional Arrangement	Added “bulk chemical system” before “piping and instrumentation” in the second sentence. Editorial: Clarify scope of statement
2.7-68	2.7.1.13 Location and Functional Arrangement	Deleted “the steam converter and associated equipment are located in the turbine building”. Changed “in the reactor building” to “auxiliary building”. Editorial: Correct system description to meet Tier 2 description
2.7-68	2.7.1.13 Key Design Features	Replace “steam converter” with “main steam or turbine extracting steam”. Editorial: Correct system description to meet Tier 2 description
2.7-73	2.7.3.1.1 Logic	Replaced “will automatically” to “automatically”. Editorial: Change word to provide consistency
2.7-74	2.7.3.1 Interface Requirements	Added the description about NPSH. Editorial: Clarify scope of statement
2.7-77	Table 2.7.3.1-4	Replaced “-” with “No”. Deleted the note. Editorial: Correct typographic error
2.7-84	2.7.3.3.1 Location and Functional Arrangement	Replaced “CCWS” to “the CCWS” in the first sentence. Editorial: Correct grammatical error.
2.7-85	2.7.3.3.1 Interlocks	Replaced “will automatically” to “automatically” in the first paragraph. Editorial: Change word to provide consistency
2.7-89	Table 2.7.3.3-2 (Sheet 1 of 3) 9 th Row, 7 th Colum	Revised Active Safety Function of the item “RCP CCW supply line outside containment isolation valve bypass valves” from “Transfer Open” to “Transfer Open/Transfer Closed”. Editorial: Correct valve function to meet the design

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.7-90	Table 2.7.3.3-2 (Sheet 2 of 3) 2 nd Row, 7 th Column	Revised Active Safety Function of the item "RCP CCW return line inside containment isolation valve bypass valves" from "Transfer Open" to "Transfer Open/Transfer Closed". Editorial: Correct valve function to meet the design
2.7-90	Table 2.7.3.3-2 (Sheet 2 of 3) 4 th Row, 7 th Column	Revised Active Safety Function of the item "RCP CCW return line outside containment isolation valve bypass valves" from "Transfer Open" to "Transfer Open/Transfer Closed". Editorial: Correct valve function to meet the design
2.7-103	2.7.3.5.1, System Purpose and Functions	Removed "factory-packaged" in second sentence of last paragraph Editorial: Remove superfluous description
2.7-104	2.7.3.5.1, Logic	Replaced "Upon the receipt of ECCS actuation signal," with "Upon receipt of the ECCS actuation signal," Editorial: Correct description
2.7-104	2.7.3.5.1, Logic	Changed "ECWS will automatically start" to " ECWS automatically starts". Editorial: Change word to provide consistency
2.7-104	2.7.3.5.1, Numeric Performance Values	Replaced "valves" with " values" Editorial: Correct misspelling
2.7-107	Table 2.7.3.5-2 3 rd Row, 2 nd Column (Sheet 2 of 2)	Replaced "VWS-TCV-2731A,2731B,2736A,2736B" with "VWS-TCV-2731, 2736" Editorial: Correct valve Tag No. error
2.7-109	Table 2.7.3.5-4, 11 th Row, 1 st Column	Replaced "Cooling Coil Flow" with "Chilled Water" Editorial: Correct component description
2.7-109	Table 2.7.3.5-4, 11 th Row, 1 st Column	Replaced "(VWS-TCV-2731A, 2731B, 2736A, 2736B)" with "(VWS-TCV-2731, 2736)" Editorial: Correct the Tag No.
2.7-111	Table 2.7.3.5.5, item 4.b (2 nd Row, 1 st Column)	Replaced "their" with "its" Editorial: Correct grammatical error

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.7-112	Table 2.7.3.5-5, item 8 (4 th Row, 1 st Colum)	Changed "Table 2.7.3.5-4" to "Table 2.7.3.5-2" Editorial: Correct typographical error
2.7-112	Table 2.7.3.5-5, item 8 (4 th Row, 2 nd Colum)	Changed "Table 2.7.3.5-4" to "Table 2.7.3.5-2" Editorial: Correct typographical error
2.7-112	Table 2.7.3.5-5, item 8 (4 th Row, 3 rd Colum)	Changed "Table 2.7.3.5-4" to "Table 2.7.3.5-2" Editorial: Correct typographical error
2.7-113	Table 2.7.3.5-5, item 10.a (2 nd Row, 1 st Colum)	Changed "Table 2.7.3.5-2" to "Table 2.7.3.5-4" Editorial: Correct typographical error
2.7-113	Table 2.7.3.5-5, item 10.a (2 nd Row, 2 nd Colum)	Changed "Table 2.7.3.5-2" to "Table 2.7.3.5-4" Editorial: Correct typographical error
2.7-113	Table 2.7.3.5-5, item 10.a (2 nd Row, 3 rd Colum)	Changed "Table 2.7.3.5-2" to "Table 2.7.3.5-4" Editorial: Correct typographical error
2.7-113	Table 2.7.3.5-5, item 10.b (3 rd Row, 1 st Colum)	Changed "Table 2.7.3.5-2" to "Table 2.7.3.5-4" Editorial: Correct typographical error
2.7-113	Table 2.7.3.5-5, item 10.b (3 rd Row, 3 rd Colum)	Changed "Table 2.7.3.5-2" to "Table 2.7.3.5-4" Editorial: Correct typographical error
2.7-114	Figure 2.7.3.5-1 (Sheet 1 of 2)	Changed the flow diagram of essential chilled water system Editorial: Remove inadequate system and components
2.7-115	Figure 2.7.3.5-1 (Sheet 2 of 2)	Change the flow diagram of essential chilled water system Editorial: Remove inadequate system and components

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.7-116	2.7.3.6.1, System Purpose and Functions	Replace “With the exception of the chilled water containment isolation valves” with ” With the exception of the piping and valves between and including the containment isolation valves” Editorial: Clarify scope of description
2.7-116	2.7.3.6.1, Seismic and ASME Code Classifications	Change “seismic Category I” to “seismic category I” Editorial: Correct capitalization error
2.7-116	2.7.3.6.1, Seismic and ASME Code Classifications	Replace “The containment penetration piping and the related isolation valves” with ” The piping and valves between and including the containment isolation valves” Editorial: Correct scope of description
2.7-119	2.7.4.1.1, Alarms, Displays, and Controls	Replaced “the discharge valve” in the second sentence with ”the discharge valves”. Editorial: Clarify scope of description
2.7-129	2.7.5.1.1, Numeric Performance Values, table, 1 st Row, 1 st Colum	Removed “via ingress/egress” Editorial: Remove superfluous description and clarify scope of statement
2.7-135	Table 2.7.5.1-3, item 6a. (8 th Row, 1 st Colum)	Changed “Table 2.7.5.1-1” to “Table 2.7.5.1-2” Editorial: Correct reference error
2.7-135	Table 2.7.5.1-3, item 6a. (8 th Row, 2 nd Colum)	Changed “Table 2.7.5.1-1” to “Table 2.7.5.1-2” Editorial: Correct reference error
2.7-135	Table 2.7.5.1-3, item 6a. (8 th Row, 3 rd Colum)	Changed “Table 2.7.5.1-1” to “Table 2.7.5.1-2” Editorial: Correct reference error
2.7-135	Table 2.7.5.1-3, item 6b. (9 th Row, 1 st Colum)	Changed “Table 2.7.5.1-1” to “Table 2.7.5.1-2” Editorial: Correct reference error
2.7-135	Table 2.7.5.1-3, item 6b. (9 th Row, 3 rd Colum)	Changed “Table 2.7.5.1-1” to “Table 2.7.5.1-2” Editorial: Correct reference error

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.7-136	Table 2.7.5.1-3, item 8 (3 rd Row, 1 st Colum)	Changed "Table 2.7.5.1-1" to "Table 2.7.5.1-2" Editorial: Correct reference error
2.7-136	Table 2.7.5.1-3, item 8 (3 rd Row, 3 rd Colum)	Changed "Table 2.7.5.1-1" to "Table 2.7.5.1-2" Editorial: Correct reference error
2.7-139	2.7.5.2.1.1, Logic	Replaced "Upon receipt of ECCS actuation signal, the annulus emergency exhaust system will automatically start." with "Upon receipt of the ECCS actuation signal, the annulus emergency exhaust system automatically starts." Editorial: Change word to provide consistent description
2.7-140	2.7.5.2.1.2, System Purpose and Functions	Added "Class 1E UPS Rooms" after the "Class 1E battery rooms" Editorial: Add missing room information
2.7-141	2.7.5.2.1.2, Logic	Replaced "Upon the receipt of an ECCS actuation signal, the Class 1E electrical room HVAC system will automatically start, or continue to operate" with " Upon receipt of the ECCS actuation signal, the Class 1E electrical room HVAC system automatically starts, or continues to operate" Editorial: Change word to provide consistent description
2.7-141	2.7.5.2.1.2, Numeric Performance Values	Replaced "valves" with " values" Editorial: Correct misspelling
2.7-142	2.7.5.2.1.3, Logic	Removed "or low" Editorial: Remove superfluous description
2.7-143	2.7.5.2.1.3, Numeric Performance Values	Replaced "valves" with " values" Editorial: Correct misspelling
2.7-144	2.7.5.2.1.4, Logic	Removed "or low" Editorial: Remove superfluous description
2.7-144	2.7.5.2.1.4, Numeric Performance Values	Replaced "valves" with " values" Editorial: Correct misspelling

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.7-145	2.7.5.2.1.5, Location and Functional Arrangement	Added the “and power source building” after “reactor building” in first sentence Editorial: Correct scope of statement
2.7-145	2.7.5.2.1.5, Location and Functional Arrangement	Replaced “serve” with “ serves” in last sentence Editorial: Correct grammatical error
2.7-145	2.7.5.2.1.5, Logic	Removed “or low” Editorial: Remove superfluous description
2.7-146	2.7.5.2.1.5, Numeric Performance Values	Replaced “valves” with “ values” Editorial: Correct misspelling
2.7-148	Table 2.7.5.2-1 (Sheet 2 of 6) 2 nd Row, 2 nd Colum	Removed “}” Editorial: Correct typographical error
2.7-148	Table 2.7.5.2-1 (Sheet 2 of 6) 4 th Row, 2 nd Colum	Removed “}” Editorial: Correct typographical error
2.7-148	Table 2.7.5.2-1 (Sheet 2 of 6) 6 th Row, 1 st Colum	Replaced “lutlet Damper” with “Inlet Dampers” Editorial: Correct typographical error
2.7-153	Table 2.7.5.2-2 (Sheet 1 of 4) last Row, 1 st Colum	Replaced “Damper” with “Dampers” Editorial: Correct typographical error
2.7-155	Table 2.7.5.2-2 (Sheet 3 of 4) 8 th Row, 1 st Colum	Changed “VRS-RFN-511A,B,C,D” to “VRS-PFN-511A,B,C,D” Editorial: Correct valve Tag No. error
2.7-155	Table 2.7.5.2-2 (Sheet 3 of 4) 10 th Row, 1 st Colum	Changed “(VRS-RFN-541 A,B,C,D)” to “(VRS-RFN-541 A, B)” Editorial: Remove superfluous description
2.7-158	Table 2.7.5.2-3, item 6a. (7 th Row, 1 st Colum)	Change “Table 2.7.5.2-1” to “Table 2.7.5.2-2” Editorial: Correct reference error

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
2.7-158	Table 2.7.5.2-3, item 6a. (7 th Row, 2 nd Colum)	Change "Table 2.7.5.2-1" to "Table 2.7.5.2-2" Editorial: Correct reference error
2.7-158	Table 2.7.5.2-3, item 6a. (7 th Row, 3 rd Colum)	Change "Table 2.7.5.2-1" to "Table 2.7.5.2-2" Editorial: Correct reference error
2.7-158	Table 2.7.5.2-3 item 6b. (8 th Row, 1 st Colum)	Change "Table 2.7.5.2-1" to "Table 2.7.5.2-2" Editorial: Correct reference error
2.7-158	Table 2.7.5.2-3 item 6b. (8 th Row, 2 nd Colum)	Added the "and filtration" after the "ESFVS air handling" Editorial: Clarify scope of statement
2.7-158	Table 2.7.5.2-3 item 6b. (8 th row, 3 rd Colum)	Changed "Table 2.7.5.2-1" to "Table 2.7.5.2-2" Editorial: Correct reference error
2.7-159	Table 2.7.5.2-3 item 8 (3 rd row, 1 st Colum)	Changed "Table 2.7.5.2-1" to "Table 2.7.5.2-2" Editorial: Correct reference error
2.7-159	Table 2.7.5.2-3 item 8 (3 rd Row, 3 rd Colum)	Changed "Table 2.7.5.2-1" to "Table 2.7.5.2-2" Editorial: Correct reference error
2.7-164	Figure 2.7.5.2-5	Changed flow diagram of safety related component area HVAC system Editorial: Remove inadequate system and components
2.7-166	2.7.5.3.1.1, Logic	Removed "ventilation" Editorial: Remove superfluous word
2.7-173	2.7.5.4.1.1, Logic	Replaced "upon receipt of an ECCS actuation signal." with "upon receipt of the ECCS actuation signal." Editorial: Clarify scope of the statement

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
2.7-179	Table 2.7.5.4-2, item 3a. (6 th Row, 1 st Colum)	Replaced “Table 2.7.5.4-1 are performed” with “Table 2.7.5.4-1 are powered” Editorial: Correct misspelling
2.7-191	2.7.6.3.1, System Operation	Deleted “the” in “perform the other system functions” in the 2 nd statement. Added “s” to “offload” in statements (3) and (4) Editorial: Clarify scope of the statement
2.7-191	2.7.6.3.1, Equipment to be Qualified for Harsh Environments	Added the missing “T” of the first word in the 1 st statement to make it “The”. Editorial: Correct misspelling
2.7-194	Table 2.7.6.3-3	Changed “pimp” to “pump”. Editorial: Correct misspelling
2.7-196	Table 2.7.6.3-5, item 2b. (4 th Row, 1 st Colum)	Replaced “are” with “is”. Editorial: Correct grammatical error
2.7-196	Table 2.7.6.3-5, Item 4a. (7 th Row, 1 st Colum)	Replaced “its” with “their”. Editorial: Correct grammatical error
2.7-196	Table 2.7.6.3-5, Item 4b. (8 th Row, 1 st Colum)	Replaced “their” with “its”. Editorial: Correct grammatical error
2.7-198	Figure 2.7.6.3-1	The direction of the connection with RHRS in the center of the figure is changed from “outlet connection to RHRS” to “inlet connection to SFPCS”. Editorial: Provide consistent drawing with Tier 2
2.7-200	2.7.6.4, Logic	Replaced “ the load will remain in a safe condition” in the first sentence with “ the load remains in a safe condition”. Editorial: Change word to provide consistency

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.7-206 2.7-209 through 2.7-211	Title of Subsection 2.7.6.6 First sentence in subsection 2.7.6.6.1 Title of Tables 2.7.6.6-1 and 2.7.6.6-2	Changed "Process and Effluent Radiation" to "Process Effluent Radiation ...". Editorial: Provide the consistent system name
2.7-206	2.7.6.6.1 2 nd bullet	Deleted the word "on" after the word "control" Editorial: Correct grammatical error
2.7-206	2.7.6.6.1 3 rd bullet	Replaced "workers as low as reasonably achievable (ALARA)" with "workers ALARA" Editorial: Correct the use of the acronym
2.7-208	2.7.6.6.2	Changed "Process and Effluent Radiological Monitoring Systems" to "process effluent radiological monitoring and sampling system". Editorial: Correct capitalization error and provide the consistent system name
2.7-216	Table 2.7.6.7-3, item 4. (5 th Row, 1 st Colum)	Replaced "The components identified in Table 2.7.6.7-1 as ASME Code Section III" with "The ASME Code Section III components, identified in Table 2.7.6.7-1,". Editorial: Change word to provide consistent description
2.7-217	Table 2.7.6.7-3, item 6.b. (4 th Row, 1 st Colum)	Added the following text as item 6.b of the Design Commitment row. 6.b The Class 1E components identified in Table 2.7.6.7-1 are powered from their respective Class 1E division. Editorial: Change word to provide consistent description
2.7-220	2.7.6.8.1, Key Design Features	Replaced "Equipment and floor drainage systems failures will not prevent" in the second paragraph with "Equipment and floor drainage systems failures do not prevent". Editorial: Change word to provide consistent description
2.7-221	2.7.6.8.1, Alarms, Displays, and Controls	Replaced "radiation instrumentation and controls will automatically divert" in the second sentence with "radiation instrumentation and controls automatically divert". Editorial: Change word to provide consistent description

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
2.7-221	2.7.6.8.1, Alarms, Displays, and Controls	Replaced “A common alarm in the main control room provided” in the last sentence with ” A common alarm in the main control room is provided”. Editorial: Correct grammatical error
2.7-223	2.7.6.9.1, Key Design Features	Replace “safe shutdown” with “safe-shutdown” in first and second sentence of third article Editorial: Correct typographical error
2.7-224, 225	2.7.6.9.1, Interface Requirements	Change “There are no safety-related interfaces with systems outside of the certified design.” to “The seismic standpipe system can be supplied from a safety-related water source which capacity is at least 18,000 gallons. Combined License applicant referencing the certified design is responsible to assure that the site-specific design meets the interface requirement and verify the conformance in the ITTAC process that are similar to those provided in the certified design.” Editorial: Correct and clarify scope of statement
2.9-3	2.9.1.2.4 second paragraph	“Engineering support personnel” was added after “Chemistry technicians”. Editorial: Consistent with Tier 2 description
2.9-6	2.9.1.4, fifth paragraph	HED was spelled out as Human engineering discrepancy. Editorial: Provide a clarity of the acronym
2.9-7	2.9.1.5, 2.9.1.5.1, and 2.9.1.5.2	The design description of “Implementation and operation” was added. Editorial: Clarify the scope of certified design
2.9-13	Table 2.9-1.(Sheet 6 of 7)	Item 9. was added to be aligned with the additional design description. Editorial: Consistent with the added design description
2.9-14	Table 2.9-1.(Sheet 7 of 7)	Item 10. was added to be aligned with the additional design description. Editorial: Consistent with the added design description
2.11-1	2.11.1.1, System Purpose and Functions Second sentence	Replaced “that will safely accommodate” with “that safely accommodates”. Editorial: Provide consistent description

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
2.11-5	Table 2.11.1-2, item 4 (5 th Row, 1 st -3 rd Colum)	Changed “drain piping” to “drain line”. Editorial: Clarify scope of the statement
2.11-12	Table 2.11.2-1 (Sheet 3 of 4) 7 th -14 th Row, 1 st Colum	Changed “HVAC” in system name to “CVVS”. Editorial: Clarify the system name
2.11-17	Table 2.11.2-2, item 12	Duplicate ITAAC No.12 was deleted and previous No.13 was identified as ITAAC No.12(current). Editorial: Delete superfluous description
2.11-18	Figure 2.11.2-1 (Sheet 1 of 2)	Changed valve symbol - N2 supply line to accumulators - Safety Injection Lines Editorial: Change the valve symbol to meet the design
2.11-30	Table 2.11.3-5, Item 10d. (4 th Row, 2 nd and 3 rd Colum)	Changed “10.c” to “10.d”. Editorial: Correct typographical error
2.12-1 through 2.12-7	2.12.1 Table 2.12-1	Replaced 6 items for physical security ITAAC with 16 items. Technical: Generic set of the physical security hardware ITAAC were incorporated in accordance with the effort of NEI’s New Plant Security Task Force with the NRC.

US-APWR DCD Tier1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
3-1	3.2	<p>Added interface requirements for ESWS and fire protection system as follow.</p> <p>“Essential Service Water System</p> <p>The UHS keeps the water level at a net positive suction head (NPSH) greater than the pump's required NPSH.</p> <p>Fire Protection System</p> <p>The seismic standpipe system can be supplied from a safety-related water source which capacity is at least 18,000 gallons”.</p> <p>Editorial: Provide consistent description with the interface requirement of corresponding systems.</p>

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.1-1	1.1.1 3rd Sentence	Editorial: Provide consistent COL Applicant action with the intent of this section Added "The Combined License (COL) Applicant is to identify the actual plant location."
1.1-1	1.1.5 1st Sentence	Editorial: Clarify scope of statement Changed "COL Applicants will" to "COL Applicant is to".
1.1-2	1.1.6.2 1st Sentence	Editorial: Clarify scope of statement Replaced "this DCD" with "this document".
1.1-2	1.1.6.3 1st Sentence	Editorial: Clarify scope of statement Deleted "US-APWR DCD" in the first sentence.
1.1-2	1.1.6.5 1st Paragraph	Editorial: Clarify scope of statement Added "Some portions of this document are classified as sensitive and withheld from public disclosure pursuant to 10 CFR 2.390 and Regulatory Issue Summary (RIS) 2005-26. Such material is clearly marked, and the withheld material is separately provided for the NRC review."
1.1-2	1.1.6.6 1st Sentence	Editorial; Clarify scope of statement Replaced "the US-APWR DCD" with "this application".
1.1-2	1.1.6.7 COL 1.1(2)	Editorial: Provide consistent COL Applicant action with the intent of this section Added new COL item "COL 1.1(2) <i>The Combined License (COL) Applicant is to identify the actual plant location.</i> " as follow for clarification.
1.2-5	1.2.1.2.2.1 5th Paragraph, 6th Bullet, 2nd Sentence	Editorial: Correct grammatical error Changed "pressure annulus " to "pressure in annulus".
1.2-6	1.2.1.2.3 1st Bullet	Editorial: Clarify scope of statement Changed "high temperature power operation conditions " to "normal operation".

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.2-6 to 1.2-7	1.2.1.2.4.1	<p>Editorial: Correct description to be similar to Chapter 4</p> <p>Changed “burnable poison” to “burnable absorber” in 1st and 2nd Paragraph.</p> <p>Changed “Moderate” to “Moderator” in 1st paragraph, 2nd Bullet.</p> <p>Changed “fuel rod temperature” to “fuel temperature” in 1st paragraph, 3rd bullet.</p> <p>Changed “Reactivity control” to “Reactivity” in 2nd paragraph.</p> <p>Changed “hot power operation conditions “ to “normal operation” in 6th paragraph.</p>
1.2-13	1.2.1.5.1.1 14th Paragraph	<p>Editorial: Clarify scope of statement</p> <p>Changed “as the neutron source reactor startup at the first fuel loading “ to “for the initial reactor start up”.</p> <p>Changed “assumes the function of neutron “ to “functions as a neutron”.</p>
1.2-14	1.2.1.5.1.2 4th Paragraph	<p>Editorial: Removed superfluous word</p> <p>Changed “the hot shutdown margin “ to “the shutdown margin”.</p>
1.2-20	1.2.1.5.2.5 3rd Paragraph	<p>Editorial: Clarify scope of statement</p> <p>Changed “should the RCPs not be available “ to “when the RCPs are unavailable”.</p>
1.2-23	1.2.1.5.3.2 3rd Paragraph	<p>Technical: Eliminate the description of steam converter</p> <p>Changed “steam converter “ to “auxiliary steam supply system (ASSS)”.</p>
1.2-29	1.2.1.5.4.1 21st Paragraph	<p>Editorial: Clarify scope of statement</p> <p>Changed “Twenty three NaTB “ to “Twenty three NaTB baskets”.</p>
1.2-29	1.2.1.5.4.1 23rd Paragraph, 3rd Bullet	<p>Editorial: Corrected text to be similar to Chapter 6 text.</p> <p>Changed “Pressurization mode is initiated automatically by the MCR isolation signal and protects “ to “Pressurization mode protects”.</p>

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.2-29	1.2.1.5.4.1 23rd Paragraph, 4th Bullet	Editorial: Corrected text to be similar to Chapter 6 text. Changed “Isolation mode is initiated automatically ...” to “Isolation mode protects the MCR operators and staff within the CRE from external toxic gas or smoke.”.
1.2-35	1.2.1.5.4.5 2nd Paragraph, 1st Bullet	Editorial: Clarify scope of statement Changed “the IAS’s safety function.” to “safety function.”.
1.2-40	1.2.1.5.4.6 9th Paragraph, 1st Sentence	Editorial: Correct component description Changed “an active carbon type noble gas holdup system and the charcoal filters of the ventilation system” to “an active carbon type noble gas holdup system”.
1.2-44	1.2.1.5.6 1st Paragraph, 2nd Sentence	Editorial: Clarify scope of statement Moved to after 1st Paragraph.
1.2-46	1.2.1.6 2nd Paragraph	Editorial: Clarify scope of statement Changed “will” to “is to” in the second paragraph.
1.2-46	1.2.1.6 3rd Paragraph	Editorial: Clarify scope of statement Replaced “will be site-specific” with “includes a site-specific portion of the facility” in the first sentence of the third paragraph.
1.2-48	1.2.1.7.1 6th Paragraph	Editorial: Correct figure number Changed “Figures 1.2-1 through 1.2-51” to “Figures 1.2-2 through 1.2-51”.
1.2-49	1.2.1.7.2.1 9th Paragraph	Editorial: Removed superfluous words Changed “in the R/B, as description in Subsection “Reactor Building”” to “in the R/B”.
1.2-49	1.2.1.7.2.1 11th Paragraph	Editorial: Clarify the description of title Changed “ <i>Feed Water Area</i> ” to “ <i>Feed Water Piping Area</i> ”.
1.2-49	1.2.1.7.2.1 12th Paragraph	Editorial: Removed superfluous words Deleted “The main steam and feed water area is located in the R/B, between the containment and the T/B. ”.
1.2-53 to 1.2-64	Figure 1.2-2 to Figure 1.2-13	Technical: Changed plant arrangement All these figures have been updated to include revision of the R/B, PS/Bs, A/B, and AC/B.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.2-66	Figure 1.2-15	Editorial: Resolved consistency issue Added the platform for the B-EFW Area AHU as well as that for the C-EFW Area AHU.
1.2-67	Figure 1.2-16	Technical: Changed plant arrangement Relocated the opening of the A Class 1E Room as well as those of the B, C, and D Rooms.
1.2-68	Figure 1.2-17	Editorial: Changed plant arrangement Added the piping tunnel in the B-Class 1E Electrical Room as well as that in the C Room.
1.2-69	Figure 1.2-18	Technical: Changed plant arrangement Relocated the Class 1E battery rooms in the PS/B from the R/B. Relocated the entrance for the B-Piping Penetration Area as well as that for the C Area.
1.2-70	Figure 1.2-19	Technical: Changed plant arrangement Same as Figure 1.2-18.
1.2-71	Figure 1.2-20	Technical: Changed plant arrangement Added the opening to access the roof of the east PS/B. Editorial: Correct area name Replaced "B" with "A" of the Class 1E Electrical Room AHU each other. Replaced "C" with "D" of the Class 1E Electrical Room AHU each other. Replaced "B" with "A" of the MCR AHU each other. Replaced "C" with "D" of the MCR AHU each other.
1.2-72	Figure 1.2-21	Technical: Changed plant arrangement Relocated the Remote Shutdown Console Room. Editorial: Clarify scope of statement Added "MG Set Control Panel". Replaced "CRDM Panel Room" with "CRDM Cabinet Room".

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
1.2-74	Figure 1.2-23	Technical: Changed plant arrangement Deleted "A,B-Main Steam /Feedwater Piping Area AHU" and "C,D-Main Steam /Feedwater Piping Area AHU".
1.2-75	Figure 1.2-24	Technical: Changed plant arrangement Added the entrance for Letdown HX Room. Added "Raised Floor" in the Main Control Room. Same as Figure 1.2-23.
1.2-76	Figure 1.2-25	Technical: Changed plant arrangement Replaced the platforms around the SGs.
1.2-77	Figure 1.2-26	Technical: Changed plant arrangement Located the Battery Charger Rooms at EL -14 '-2 " Located the Class 1E Battery Rooms at EL -26 '-4 " Rearranged rooms around the Battery Charger Rooms
1.2-78	Figure 1.2-27	Technical: Changed plant arrangement Added the openings to access the PSFSVs.
1.2-79	Figure 1.2-28	Technical: Changed plant arrangement Same as Figure 1.2-26.
1.2-80	Figure 1.2-29	Technical: Changed plant arrangement Relocated the entrance for the Charcoal Beds Valve Area.
1.2-81	Figure 1.2-30	Editorial: Clarify scope of statement Added the platform in the Boric Acid Tank Room.
1.2-82	Figure 1.2-31	Technical: Changed plant arrangement Relocated the Waste Demineralizers and the Activated Carbon Filter. Added "Area for Future Mobile System".
1.2-83	Figure 1.2-32	Technical: Changed plant arrangement Same as Figure 1.2-31. Replaced "EL.13'-6" with "EL.15'-9".

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.2-84	Figure 1.2-33	Technical: Changed plant arrangement Relocated the TSC in the AC/B from the A/B. Rearranged the electrical rooms. Relocated the SG Blowdown Mixed Bed Demineralizers and the SG Blowdown Return Water Radiation Monitor from EL 3'-7".
1.2-85	Figure 1.2-34	Technical: Changed plant arrangement Same as Figure 1.2-33.
1.2-86	Figure 1.2-35	Technical: Changed plant arrangement Relocated the BA Batching Tank from EL 25'-3". Added the walls. Rearranged the HVAC equipment. Added the opening to access the roof of the AC/B.
1.2-87	Figure 1.2-36	Technical: Changed plant arrangement Rearranged the south stair hall.
1.2-88	Figure 1.2-37	Technical: Changed plant arrangement Same as Figure 1.2-36.
1.2-89	Figure 1.2-38	Technical: Changed plant arrangement Same as Figure 1.2-31,33, and 35.
1.2-90	Figure 1.2-39	Technical: Changed plant arrangement Same as Figure 1.2-33 and 35. Added the Cooling Tower on the roof.
1.2-100	Figure 1.2-49	Technical : Changed plant arrangement Relocated the elevator and the stair hall. Added the Security Monitor Room and the Electrical Room at EL.-26 '-4 " Replaced "EL.-11'-4" with "EL.-8'-0" at B1MF. Deleted the floor at EL.-11'-4" and added the piping area at EL.-8'-0. Replaced the Locker Room and the Cold Shower Room at EL 3'-7".

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.2-101	Figure 1.2-50	Technical : Changed plant arrangement Relocated the elevator and the stair hall. Relocated the TSC from the A/B. Added the platform on the roof to access the A/B.
1.2-102	Figure 1.2-51	Technical : Changed plant arrangement Same as Figure 1.2-49 and 50.
1.4-1	1.4.1, title	Editorial: Removed superfluous words Delete “– Mitsubishi Heavy Industries, Ltd. “.
1.4-2	1.4.3	Editorial: Provide consistent COL Applicant action with the intent of this section Following new COL item was added as “COL 1.4(1)”. The COL Applicant is to identify major agents, contractors, and participants for the COL application development, construction, and operation.
1.5-2	1.5.2.1.2 2nd Paragraph	Editorial: Reflected present status Changed “flow test is in operation” to “flow test was performed”. Changed “validate the design” to “confirm the design”.
1.5-2	1.5.2.1.3 2nd Paragraph	Editorial: Reflected present status Changed “will be presented” to “were presented”. Changed “will provide” to “provided”.
1.5-3	1.5.2.3 2nd Paragraph	Editorial: Reflected present status Changed “will consist” to “consists”.
1.5-3	1.5.2.3 3rd Paragraph	Editorial: Reflected present status Changed “will be started” to “was started”.
1.5-3	1.5.4 1.5-2	Editorial: Incorporate the already-submitted Technical Report Changed “(to be submitted)” to “, December 2007”.
1.5-3	1.5.4 1.5-3	Editorial: Incorporate the already-submitted Technical Report Changed “(to be submitted)” to “, June 2008”.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.5-4	1.5.4 1.5-6	Editorial: Incorporate the already-submitted Technical Report Changed "Revision 1" to "Revision 2". Changed "July 2007" to ", August 2008".
1.5-4	1.5.4 1.5-7	Editorial: Incorporate the already-submitted Technical Report Changed "Revision 1" to "Revision 2". Changed "July 2007" to ", June 2008".
1.6-2	Table 1.6-1 4th Row	Editorial: Incorporate the already-submitted Technical Report Changed "Revision 1, July 2007" to "Revision 2, August 2008".
1.6-2	Table 1.6-1 5th Row	Editorial: Incorporate the already-submitted Technical Report Changed "Revision 1, July 2007" to "Revision 2, June 2008".
1.6-2	Table 1.6-1 11th Row	Editorial: Incorporate the already-submitted Technical Report Changed "July 2007" to "Revision 2, May 2008".
1.7-2	Table 1.7-1	Editorial: Resolve consistency issue
1.7-3 to 1.7-5	Table 1.7-2	Editorial: Resolve consistency issue
1.7-6	Figure 1.7-1	Editorial: Due to the revision of Chapter 8 Following items are replaced or added due to the revision of Chapter 8. <ul style="list-style-type: none">• Replaced "CONTACTOR" with "CONTACTOR/CONTACT".• Added "RESISTOR", "RELAY COIL", "TERMINAL", "MOTOR", "INDICATING LIGHT", DRAWING TYPE".
1.7-9	Figure 1.7-4	Editorial: Add new component information Added a symbol of "unit heater"

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.8-1	1.8 4th Paragraph,3rd Sentence	Editorial: Clarify scope of statement Changed “will be required to provide verification” to “are to be required to demonstrate”.
1.8-2	1.8.1 and 1.8.2	Editorial: Clarify scope of statement Alternated Subsections “1.8.1” and “1.8.2”. Renamed subsection title of subsection 1.8.1 to “Summary of Combined License Information Items”. Added new subsection heading as Subsection 1.8.1.1.
1.8-2	1.8.1 and 1.8.2	Editorial: Provide consistent COL Applicant action with the intent of this section Following COL items were added for clarification as COL 1.8(2) and COL 1.8(3) as follows. COL 1.8(2); The COL Applicant is to provide the cross-reference identifying specific FSAR sections that address each COL information item from the DCD. COL 1.8(3); The COL Applicant is to provide a summary of plant specific departures from the DCD, and conformance with site parameters.
1.8-3	Table 1.8-1 Interface No.1	Editorial: Clarify scope of interface Removed “and Ultimate Heat Sink” from the interface No.1 title. Changed “System Interface” to “Site Feature Interface”. Changed the description of items. Removed referenced Subsection 9.2.5.
1.8-3	Table 1.8-1 Interface No.2	Editorial: Clarify scope of interface Changed the description of items. Added referenced Subsection 9.2.5 into “DCD Section” row of Interface No.2.
1.8-3	Table 1.8-1 Interface No.3	Editorial: Resolve consistency issue Interface No.3 was deleted. This item had been already discussed in the DCD.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

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1.8-3	Table 1.8-1 Interface No.4	Editorial: Clarify scope of statement Changed “A conceptual design of this system is included in the DCD for reference. This is the interface between the US-APWR and the local electrical grid.” to “A site-specific interface between the certified design and the local electrical grid is addressed in the DCD.”.
1.8-3	Table 1.8-1 Interface No.5	Editorial: Resolve consistency issue Interface No.5 was deleted. This item had been already discussed in the DCD.
1.8-4	Table 1.8-1 Interface No.8	Editorial: Correct referenced section/subsection Added referenced Subsection 7.5.1 and Section 13.3.
1.8-4	Table 1.8-1 Interface No.10	Editorial: Correct referenced section/subsection Added referenced Section 13.6.
1.8-4	Table 1.8-1 Interface No.11	Editorial: Clarify scope of statement Added “A safety-related water source supplied to the seismic standpipe system” as interface description.
1.8-4	Table 1.8-1 Interface No.12	Editorial: Resolve consistency issue Changed “11.5.4” to “11.5”.
1.8-4	Table 1.8-1 Interface No.13	Editorial: Resolve consistency issue Interface No.13 was deleted. This item had been already discussed in the DCD.
1.8-4	Table 1.8-1 Interface No.14	Editorial: Correct referenced section/subsection Deleted referenced Section 9.3.2.
1.8-5 to 1.8-48	Table 1.8-2	Editorial: Resolve consistency issue Reflected COL Items in the revision of DCD.
1.9-1	1.9 1st Paragraph	Editorial: Correct grammatical error Changed “will provide “ to “provides”.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-1	1.9 2nd Paragraph	<p>Editorial: Provide consistent COL Applicant action with the intent of this section</p> <p>Following new COL item, COL 1.9(1), was added as the last paragraph in Section 1.9.</p> <p>The COL Applicant is to address a evaluation of the applicable RG, SRP, Generic Issues including Three Mile Island (TMI) requirements, and operational experience for the site-specific portion and operational aspect of the facility.</p>
1.9-3	Table 1.9.1-1 RG 1.4	<p>Editorial: Resolve consistency issue</p> <p>Changed “will be followed” to “is applied”.</p>
1.9-3	Table 1.9.1-1 RG 1.11	<p>Editorial: Resolve consistency issue</p> <p>Deleted “Site specific features will be presented in COLA.”.</p>
1.9-3	Table 1.9.1-1 RG 1.12	<p>Editorial: Resolve consistency issue</p> <p>Changed “Conformance with no exceptions identified.” to “Conformance with exception. Programmatic/operational aspect is not applicable to US-APWR design certification.”</p>
1.9-4	Table 1.9.1-1 RG 1.16	<p>Editorial: Resolve consistency issue</p> <p>Changed “Conformance with no exceptions identified.” to “Conformance with exception. Programmatic/operational aspect is not applicable to US-APWR design certification.”</p>
1.9.4	Table 1.9.1-1 RG 1.20	<p>Editorial: Resolve consistency issue</p> <p>Changed “Conformance with no exceptions identified.” to “Conformance with exception. The measurement at startup test for SG’s internals is not planned.”</p> <p>Added 5.4.2.1.2.10 as corresponding subsection.</p>
1.9-4	Table 1.9.1-1 RG 1.26	<p>Editorial: Resolve consistency issue</p> <p>Added “5.2.2.1, 5.2.4.1” as corresponding subsection</p>
1.9-5	Table 1.9.1-1 RG 1.29	<p>Editorial: Resolve consistency issue</p> <p>Changed “7.4.2” to “7.1.3.7” and added “5.2.2.1, 5.4.11.1” as corresponding subsection</p>
1.9-5	Table 1.9.1-1 RG 1.31	<p>Editorial: Resolve consistency issue</p> <p>Changed “5.2.3.4.3” to “5.2.3.4.4” and added “5.3.1.4” as corresponding subsection</p>

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-5	Table 1.9.1-1 RG 1.34	Editorial: Resolve consistency issue Changed "5.2.3.4.3" to "5.2.3.4.4" and added "5.3.1.4" as corresponding subsection
1.9-5	Table 1.9.1-1 RG 1.37	Editorial: Resolve consistency issue Changed "Conformance with no exceptions identified." to "Conformance with exception. Programmatic/operational aspect is not applicable to US-APWR design certification." RAI: No.7, 14.02-1 Conformance with RG 1.37 and the corresponding sections(i.e. 3.13.1, 4.5.1, 5.2.3, 5.3.1, 6.1.1, 14.2.7) in the DCD are added.
1.9-6	Table 1.9.1-1 RG 1.43	Editorial: Resolve consistency issue Changed "5.2.3.4.3" to "5.3.1.4" as corresponding subsection
1.9-6	Table 1.9.1-1 RG 1.50	Editorial: Resolve consistency issue Deleted "5.2.3.3.2, 5.2.3.4.3" and added "5.3.1.2, 5.3.1.4" as corresponding subsection
1.9-6	Table 1.9.1-1 RG 1.54	Editorial: Resolve consistency issue Changed "Conformance with no exceptions identified." to "Conformance with exceptions. Programmatic/operational and site-specific aspects are not applicable to US-APWR design certification."
1.9-7	Table 1.9.1-1 RG 1.65	Editorial: Resolve consistency issue Deleted "5.4.2.1" and added "5.3.3" as corresponding subsection
1.9-7	Table 1.9.1-1 RG 1.68	Editorial: Resolve consistency issue Changed "Conformance with no exceptions identified." to "Conformance with exception. Programmatic/operational aspect is not applicable to US-APWR design certification."
1.9-7	Table 1.9.1-1 RG 1.71	Editorial: Resolve consistency issue Changed "5.2.3.4.3" to "5.2.3.4.4" and added "5.3.1.4" as corresponding subsection

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-8	Table 1.9.1-1 RG 1.77	Editorial: Resolve consistency issue Changed “Conformance with exceptions. Full conformance by COL Applicant with site-specific consequence data.” to “Conformance with no exceptions identified.”.
1.9-8	Table 1.9.1-1 RG 1.83	Editorial: Reflect present status Deleted “at 2007”.
1.9-9	Table 1.9.1-1 RG 1.87	Editorial: Removed superfluous word Deleted “US-APWR reactor is not among the reactor designs covered by this RG. Code Cases are unacceptable for use by licensee in their Section III design and construction program.”
1.9-9 to 1.9-11	Table 1.9.1-1 RG 1.97 RG 1.118 RG 1.136	Editorial: Resolve consistency issue Added 14.2.7 as corresponding subsection for RG 1.16, RG 1.118, RG1.136. Included 14.2.6 and 14.3.4 for RG 1.16 and RG 1.97 respectively.
1.9-10	Table 1.9.1-1 RG 1.111	Editorial: Removed superfluous words Deleted “(11.3.7,11.4.3,11.5.2) “.
1.9-11	Table 1.9.1-1 RG 1.128	Editorial: Resolve consistency issue Changed “Conformance with no exceptions identified.” to “Conformance with exception. The hydrogen concentration limit required in RG 1.189 is appropriate for the fire protection scenario, over the RG 1.128.”.
1.9-11	Table 1.9.1-1 RG 1.135	Editorial: Resolve consistency issue Changed “Conformance with no exceptions identified.” to “Conformance with exception. Site-specific aspect is not applicable to US-APWR design certification.”. Deleted “14.2.7” as corresponding subsection.
1.9-12	Table 1.9.1-1 RG 1.147	Editorial: Resolve consistency issue Added “5.2.1.2, 5.2.4.2” as corresponding subsection.
1.9-12	Table 1.9.1-1 RG 1.150	Editorial: Reflect present status Changed “Conformance with no exceptions identified.” to “Withdrawn.”.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-13	Table 1.9.1-1 RG 1.152	Editorial: Resolve consistency issue Changed "7.1.2" to "7.9.2.6" as corresponding subsection
1.9-13	Table 1.9.1-1 RG 1.154	Editorial: Resolve consistency issue Changed "Conformance with no exceptions identified." to "Not applicable."
1.9-13	Table 1.9.1-1 RG 1.155	Editorial: Resolve consistency issue Deleted "14.2" as corresponding subsection.
1.9-13	Table 1.9.1-1 RG 1.163	RAI: No.12, 14.02-3 Added "14.2" as corresponding section.
1.9-14	Table 1.9.1-1 RG 1.176	Editorial: Reflect present status Changed "Conformance with no exceptions identified." to "Withdrawn."
1.9-15	Table 1.9.1-1 RG 1.183	Editorial: Resolve consistency issue Changed "Conformance with no exceptions identified." to "Conformance with exception. Site-specific aspect is not applicable to US-APWR design certification."
1.9-15	Table 1.9.1-1 RG 1.186	Editorial: Resolve consistency issue Deleted "These requirements will be the responsibility of the COL Applicant."
1.9-16	Table 1.9.1-1 RG 1.194	Editorial: Clarify scope of statement Changed "control room habitability assessment" to "dispersion data".
1.9-16	Table 1.9.1-1 RG 1.195	Editorial: Clarify scope of statement Changed "Use of RG not allowed by design certification applicants." to "Due to use of alternative source term, the guidance of RG 1.183 is applied instead of RG 1.195."
1.9-27	Table 1.9.1-4 RG 8.10	Editorial: Resolve consistency issue Changed "Limited to application of ALARA philosophy to design of facilities." to "Programmatic/operational aspect is not applicable to US-APWR design certification."
1.9-27	Table 1.9.1-4 RG 8.11	Editorial: Clarify scope of statement Changed "RG refers to site-specific procedures and/or equipment that are outside the reference US-APWR design." to "RG applies to bioassay for uranium."

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-28	Table 1.9.1-4 RG 8.18	Editorial: Clarify scope of statement Changed “RG refers to site-specific procedures and/or equipment that are outside the reference US-APWR design.” to “RG applies to medical institutions..”.
1.9-28	Table 1.9.1-4 RG 8.19	Editorial: Resolve consistency issue Changed “12.3.5” to “12.4” as corresponding subsection.
1.9-30	Table 1.9.1-4 RG 8.37	Editorial: Clarify scope of statement Changed “RG refers to site-specific procedures and/or equipment that are outside the reference US-APWR design.” to “RG applies to material facilities.”.
1.9-66	Table 1.9.2-3 SRP 3.9.2	Editorial: Resolve consistency issue Changed “Conformance with no exceptions identified.” to “Conformance with exceptions.”. Added a brief reason.
1.9-69 to 1.9-70	Table 1.9.2-3 SRP 3.9.5	Editorial: Resolve consistency issue Changed “Conformance with no exceptions identified.” to “Conformance with exceptions.”. Added a brief reason.
1.9-94	Table 1.9.2-5 SRP 5.4.1.1	Editorial: Resolve consistency issue Changed “Conformance with exceptions. Criterion 7 is provided by the COL applicant.” to “Conformance with no exceptions identified.”.
1.9-95	Table 1.9.2-5 SRP 5.4.2.2	Editorial: Resolve consistency issue Changed “Conformance with exceptions. Criteria 2-9: Not applicable for DCD. COL requirements.” to “Conformance with no exceptions identified.”. Deleted “5.4.2.3” as corresponding subsection.
1.9-170	Table 1.9.2-9 SRP 9.1.3	Editorial: Clarify scope of statement Changed “9.1.3.1, 9.1.3.4, ...” to “9.1.3” as corresponding subsection.
1.9-179	Table 1.9.2-9 SRP 9.3.1	Editorial: Clarify scope of statement Changed “the US-APWR can cope with a station blackout without air supply from the instrument air system.” to “US-APWR can cope with a station blackout [SBO] without air supply from the instrument air system.”.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-188	Table 1.9.2-9 SRP 9.4.3	Editorial: Clarify scope of statement Changed "With exception of TSC HVAC system, not provided air clean up function." to "Air clean up function is provided for TSC HVAC system only."
1.9-189	Table 1.9.2-9 SRP 9.4.5	Editorial: Clarify scope of statement Changed "With exception of annulus exhaust system, not provided air cleanup function." to "Air cleanup function is provided for annulus exhaust system only."
1.9-197	Table 1.9.2-9 SRP 9.5.4	Editorial: Clarify scope of statement Changed "Not applicable. US-APWR has no diesel generators." to "Conformance with no exception identified. US-APWR has no diesel generators, but uses gas turbine generators for emergency power in the standard design."
1.9-198	Table 1.9.2-9 SRP 9.5.6	Editorial: Clarify scope of statement Changed "Not applicable. US-APWR has no diesel generators." to "Conformance with no exception identified. US-APWR has no diesel generators, but uses gas turbine generators for emergency power in the standard design."
1.9-198	Table 1.9.2-9 SRP 9.5.7	Editorial: Clarify scope of statement Changed "Not applicable. US-APWR has no diesel generators." to "Conformance with no exception identified. US-APWR has no diesel generators, but uses gas turbine generators for emergency power in the standard design."
1.9-198	Table 1.9.2-9 SRP 9.5.8	Editorial: Clarify scope of statement Changed "Not applicable. US-APWR has no diesel generators." to "Conformance with no exception identified. US-APWR has no diesel generators, but uses gas turbine generators for emergency power in the standard design."
1.9-204	Table 1.9.2-10 SRP 10.3	Editorial: Resolve consistency issue Changed "10.3.1.1" to "10.3" as corresponding subsection.
1.9-207	Table 1.9.2-10 SRP 10.3.6	Editorial: Resolve consistency issue Changed "10.3.5" to "10.3.6" as corresponding subsection.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-212	Table 1.9.2-10 SRP 10.4.7	Editorial: Resolve consistency issue Changed "10.4.7.1.2,104.7.4,10.4.7.6" to "10.4.7" as corresponding subsection.
1.9-217	Table 1.9.2-10 SRP BTP 10-2	Editorial: Resolve consistency issue Deleted "US-APWR belongs to the "Preheat Steam Generator Designs" category. Water hammer testing described in criterion #4 of "Preheat Steam Generator Designs" will be performed by the COL Applicant as part of the startup test program."
1.9-222	Table 1.9.2-11 SRP 11.3	Editorial: Correct grammatical error Changed "The applies to an ESP application." to "This applies to an ESP application."
1.9-227	Table 1.9.2-11 SRP 11.5	Editorial: Clarify scope of statement Changed "Per expectation expressed in the SRP, operational programs will be contained in the COL." to "Per expectation expressed in the SRP, operational programs will be provided by the COL applicant."
1.9-294	Table 1.9.2-15 SRP 15.0.1	Editorial: Clarify scope of statement Changed "changing accident analysis source term inputs." to "adopting alternative source term."
1.9-297	Table 1.9.2-15 SRP 15.0.3	Editorial: Clarify scope of statement Changed "consequence data" to "meteorological information". Editorial: Resolve consistency issue Changed "15.0.3" to "15.0.3, 15.1.5.5, 15.3.3.5, 15.4.8.5, 15.6.2, 15.6.3.5, 15.6.5.5, 15.7.4" as corresponding subsection.
1.9-304	Table 1.9.2-15 SRP 15.1.5.A	Editorial: Resolve consistency issue Changed "Conformance with exceptions." to "Not applicable. SRP 15.0.3, "Design Basis Accident Radiological Consequence Analyses for Advanced Light Water Reactors" is applied instead of SRP 15.1.5.A." Changed "15.1.5.5" to "N/A" as corresponding subsection.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-324	Table 1.9.2-15 SRP 15.4.8.A	Editorial: Resolve consistency issue Changed "Conformance with exceptions." to "Not applicable. SRP 15.0.3, "Design Basis Accident Radiological Consequence Analyses for Advanced Light Water Reactors" is applied instead of SRP 15.4.8.A." Changed "15.4.8.5" to "N/A" as corresponding subsection.
1.9-328	Table 1.9.2-15 SRP 15.6.2	Editorial: Resolve consistency issue Changed "Conformance with exceptions." to "Conformance with no exceptions identified."
1.9-328	Table 1.9.2-15 SRP 15.6.3	Editorial: Resolve consistency issue Changed "Conformance with no exceptions." to "Not applicable. SRP 15.0.3, "Design Basis Accident Radiological Consequence Analyses for Advanced Light Water Reactors" is applied instead of SRP 15.6.3." Changed "15.6.3" to "N/A" as corresponding subsection.
1.9-329	Table 1.9.2-15 SRP 15.6.4	Editorial: Resolve consistency issue Changed "Conformance with exceptions." to "Not applicable."
1.9-331	Table 1.9.2-15 SRP 15.6.5.A	Editorial: Resolve consistency issue Changed "Conformance with exceptions." to "Not applicable. SRP 15.0.3, "Design Basis Accident Radiological Consequence Analyses for Advanced Light Water Reactors" is applied instead of SRP 15.6.5.A." Changed "15.6.5.5" to "N/A" as corresponding subsection.
1.9-332	Table 1.9.2-15 SRP 15.6.5.B	Editorial: Resolve consistency issue Changed "Conformance with exceptions." to "Not applicable. SRP 15.0.3, "Design Basis Accident Radiological Consequence Analyses for Advanced Light Water Reactors" is applied instead of SRP 15.6.5.B." Changed "15.6.5.5" to "N/A" as corresponding subsection.

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-333	Table 1.9.2-15 SRP 15.7.3	Editorial: Resolve consistency issue Changed "Conformance with exceptions." to "Not applicable. BTP 11-6, "Postulated Radioactive Release Due to Liquid-containing Tank Failures" is applied instead of SRP 15.7.3." Changed "11.2.3, 15.7.3" to "N/A" as corresponding subsection.
1.9-333	Table 1.9.2-15 SRP 15.7.4	Editorial: Resolve consistency issue Changed "Conformance with exceptions." to "Not applicable. SRP 15.0.3, "Design Basis Accidents Radiological Consequence Analyses for Advanced Light Water Reactors" is applied instead of SRP 15.7.4." Changed "15.7.4" to "N/A" as corresponding subsection.
1.9-334	Table 1.9.2-15 SRP 15.7.5	Editorial: Clarify scope of statement Changed "Design configuration of the Overhead Heavy Load Handling System limits its travel so that: a) it cannot pass over the spent fuel pool, and b) it cannot lift the cask higher than its qualified height of 30 feet above floor elevation." to "Design configuration of the spent fuel cask handling crane limits its travel so that: a) it cannot pass over the spent fuel pool, and b) potential cask drop distances are less than 30 feet."
1.9-352 to 1.9-360	Table 1.9.3-1 GSI-163	Editorial: Resolve consistency issue Changed the description of status/discussion.
1.9-369 to 1.9-375	Table 1.9.3-1 GSI-191	Editorial: Resolve consistency issue Changed the description of status/discussion. Reflected the corresponding Technical Report.
1.9-386	Table 1.9.3-2 (2)(xxv)	Editorial: Resolve consistency issue Changed "7.5.1.6.1" to "7.5.1.6" as location subsection.
1.9-387	Table 1.9.3-2 (2)(xxvii)	Editorial: Resolve consistency issue Changed "7.3" to "7.3.1.5" as location subsection.
1.9-431	Table 1.9.5-2 Issue No. I.G	Editorial: Resolve consistency issue Changed "19.2.3.2" to "19.2.3.3.2".
1.9-441	Table 1.9.5-2 Issue No. II.Q	Editorial: Resolve consistency issue Deleted "7.2.1".

US-APWR DCD Chapter 1 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
1.9-463	Table 1.9.5-4 Sheet 1, Issue No.3	Editorial: Resolve consistency issue Changed "19.2.2.3" to "19.2.3.3.7".
1.9-466	1.9.6	Editorial: Provide consistent COL Applicant action with the intent of this section New subsection was established for the new COL item "COL 1.9(1) <i>The COL Applicant is to address an evaluation of the applicable RG, SRP, Generic Issues including Three Mile Island (TMI) requirements, and operational experience for the site-specific portion and operational aspect of the facility.</i> ".
1.9-466	1.9.7	Editorial: Correct subsection number Subsection number was changed from "1.9.6" to "1.9.7".

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2-v	Acronyms and Abbreviations	Delete “DCD design control document” Editorial: Acronym not used
2-v	Acronyms and Abbreviations	Delete “PSHA probabilistic seismic hazard analysis” Editorial: Acronym not used
2-v	Acronyms and Abbreviations	Delete “QA quality assurance” Editorial: Acronym not used
2-v	Acronyms and Abbreviations	Delete “RCCA rod cluster control assembly” Editorial: Acronym not used
2-v	Acronyms and Abbreviations	Delete “UHRS uniform hazard response spectra” Editorial: Acronym not used
2.0-2	Table 2.0-1 (Sheet 1 of 5) 3 rd Row, 1 st Column	Change: “100-year snowpak maximum snow weight (roof)” to “Roof Snow Load (100-year snowpack maximum snow weight including contributing portion of 48-hour probable maximum winter precipitation [PMWP])” Editorial: Correct typographical error [RAI23 02.03.01-1], and clarify roof snow load [RAI23 02.03.01-10]
2.0-2	Table 2.0-1 (Sheet 1 of 5) 3 rd Row, 2 nd Column	Change: “50 lb/ft ² ” to “75 lb/ft ² ” Editorial: Clarify design roof snow load [RAI23 02.03.01-10]
2.0-2	Table 2.0-1 (Sheet 1 of 5) 4 th Row, 1 st Column	Change: “Weight of 48-hr maximum probable maximum winter precipitation” to “Weight of 48-hr PMWP” Editorial: Remove redundant word and utilize acronym
2.0-2	Table 2.0-1 (Sheet 1 of 5) 10 th Row, 2 nd Column	Change: “... above ground level” to “...above ground level based on 100-year return period, with importance factor of 1.15 for seismic category I/II structures” Editorial: Clarify scope of statement [RAI 23, 02.03.01-2]

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.0-2	Table 2.0-1 (Sheet 1 of 5) 11 th Row, 1 st Column	Insert new row and add data: "Ambient design air temperature (1% annual exceedance maximum)" Editorial: Add inadvertently omitted parameters [RAI 23, 02.03.01-6]
2.0-2	Table 2.0-1 (Sheet 1 of 5) 11 th Row, 2 nd Column	Insert new row and add data: "100°F dry bulb, 77°F coincident wet bulb, 81°F non-coincident wet bulb" Editorial: Add inadvertently omitted parameters [RAI 23, 02.03.01-6]
2.0-2	Table 2.0-1 (Sheet 1 of 5) 12 th Row, 1 st Column	Change: "(0% exceedance maximum)" to "(0% annual exceedance maximum)"
2.0-2	Table 2.0-1 (Sheet 1 of 5) 13 th Row, 1 st Column	Insert new row and add data: "Ambient design air temperature (1% annual exceedance minimum)" Editorial: Add inadvertently omitted parameter [RAI 23, 02.03.01-6]
2.0-2	Table 2.0-1 (Sheet 1 of 5) 13 th Row, 2 nd Column	Insert new row and add data: "-10°F dry bulb" Editorial: Add inadvertently omitted parameter [RAI 23, 02.03.01-6]
2.0-2	Table 2.0-1 (Sheet 1 of 5) 14 th Row, 1 st Column	Change: "(0% exceedance minimum)" to "(0% annual exceedance minimum)"
2.0-4	Table 2.0-1 (Sheet 3 of 5) 2 nd Row , 1 st Column	Change: "Auxiliary building (A/B) releases (Sampling system line) ⁽⁷⁾ " to "Auxiliary building (A/B) releases (reactor coolant system sample line) ⁽⁷⁾ " Editorial: Clarify scope of statement
2.0-4	Table 2.0-1 (Sheet 3 of 5) 2 nd Row , 2 nd Column	Change: "8.3 x 10 ⁻⁴ s/m ³ " to "8.4 x 10 ⁻⁴ s/m ³ " Technical: Reflect design enhancement

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.0-4	Table 2.0-1 (Sheet 3 of 5) 5 th Row, 2 nd Column	Change: “7.8 x 10 ⁻⁴ s/m ³ ” to “7.7 x 10 ⁻⁴ s/m ³ ” Technical: Reflect design enhancement
2.0-4	Table 2.0-1 (Sheet 3 of 5) 6 th Row, 2 nd Column	Change: “1.7 x 10 ⁻³ s/m ³ ” to “1.4 x 10 ⁻³ s/m ³ ” “9.7 x 10 ⁻⁴ s/m ³ ” to “8.0 x 10 ⁻⁴ s/m ³ ” “6.2 x 10 ⁻⁴ s/m ³ ” to “5.1 x 10 ⁻⁴ s/m ³ ” “2.7 x 10 ⁻⁴ s/m ³ ” to “2.2 x 10 ⁻⁴ s/m ³ ” Technical: Reflect design enhancement
2.0-4	Table 2.0-1 (Sheet 3 of 5) 7 th Row, 1 st Column	Change: “... electrical room HVAC intake ⁽⁹⁾ ” to “... electrical room HVAC intake ⁽⁴⁾ ” Technical: Reflect design enhancement
2.0-4	Table 2.0-1 (Sheet 3 of 5) 8 th Row, 1 st & 2 nd Columns	Delete in it's entirety Technical: Reflect design enhancement
2.0-5	Table 2.0-1 (Sheet 4 of 5) 4 th Row, 1 st Column	Change: “A/B releases (Sampling system line) ⁽⁷⁾ ” to “A/B releases (reactor coolant system sample line) ⁽⁷⁾ ” Editorial: Clarify scope of statement
2.0-5	Table 2.0-1 (Sheet 4 of 5) 4 th Row, 2 nd Column	Change: “5.1 x 10 ⁻³ s/m ³ ” to “4.9 x 10 ⁻³ s/m ³ ” “3.0 x 10 ⁻³ s/m ³ ” to “2.9 x 10 ⁻³ s/m ³ ” “1.9 x 10 ⁻³ s/m ³ ” to “1.8 x 10 ⁻³ s/m ³ ” “8.4 x 10 ⁻⁴ s/m ³ ” to “8.1 x 10 ⁻⁴ s/m ³ ” Technical: Reflect design enhancement
2.0-5	Table 2.0-1 (Sheet 4 of 5) 9 th Row, 2 nd Column	Change: “19.4 in/hr with importance factor of 1.2 for category I/II structures” to “19.4 in/hr for seismic category I/II structures” Editorial: Remove erroneous reference to importance factor and clarify type of category [RAI 13 02.04-1]

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.0-5	Table 2.0-1 (Sheet 4 of 5) 10 th Row, 2 nd Column	Change: "6.3 in/5 min, with importance factor of 1.2 for category I/II structures" to "6.3 in/5 min for seismic category I/II structures" Editorial: Remove erroneous reference to importance factor and clarify type of category [RAI 13 02.04-1]
2.0-6	Table 2.0-1 (Sheet 5 of 5) 10th Row, 1 st Column	Change: "Subsurface stability – mean minimum shear wave velocity at SSE input at ground surface" to "Subsurface stability – minimum shear wave velocity at SSE input at ground surface" Editorial: Clarify Parameter Value in analysis is an exact value
2.0-6	Table 2.0-1 (Sheet 5 of 5) 10th Row, 2 nd Column	Change: "~1,000 ft/s" to "1,000 ft/s" Editorial: Clarify Parameter Value used in analysis
2.0-6	Table 2.0-1 (Sheet 5 of 5) 11th Row, 1 st Column	Change: "Subsurface stability – mean shear wave velocity for defining firm rock" to "Subsurface stability – shear wave velocity for defining firm rock" Editorial: Clarify Parameter Value in analysis is an exact value
2.0-6	Table 2.0-1 (Sheet 5 of 5) 11th Row, 2 nd Column	Change: "≥3,500 ft/s" to "3,500 ft/s" Editorial: Clarify Parameter Value used in analysis
2.0-6	Table 2.0-1 (Sheet 5 of 5) 12th Row, 1 st Column	Change: "Subsurface stability – mean shear wave velocity for defining firm to hard rock" to "Subsurface stability – shear wave velocity for defining firm to hard rock" Editorial: Clarify Parameter Value in analysis is an exact value
2.0-6	Table 2.0-1 (Sheet 5 of 5) 12th Row, 2 nd Column	Change: "~6,500 ft/s" to "6,500 ft/s" Editorial: Clarify Parameter Value used in analysis

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.0-6	Table 2.0-1 (Sheet 5 of 5) 13th Row, 1 st Column	Change: "Subsurface stability – mean shear wave velocity for defining hard rock" to "Subsurface stability – shear wave velocity for defining hard rock" Editorial: Clarify Parameter Value in analysis is an exact value
2.0-6	Table 2.0-1 (Sheet 5 of 5) 13th Row, 2 nd Column	Change: "≥8,000 ft/s" to "8,000 ft/s" Editorial: Clarify Parameter Value used in analysis
2.0-6	Table 2.0-1 (Sheet 5 of 5) Note 4.	Change: "cluster control assembly (RCCA) These dispersion factors are used in cases of a loss-of-coolant accident (LOCA) and a rod cluster control assembly (RCCA) ejection accident." to "These dispersion factors are used for a loss-of-coolant accident (LOCA) and a rod ejection accident." Editorial: Clarify scope of statement & correct terminology
2.0-6	Table 2.0-1 (Sheet 5 of 5) Note 5.	Change: "These dispersion factors are used in cases of a steam generator tube rupture, a steam system piping failure, a reactor coolant pump rotor seizure and a RCCA ejection accident." to "These dispersion factors are used for a steam generator tube rupture, a steam system piping failure, a reactor coolant pump rotor seizure and a rod ejection accident." Editorial: Clarify scope of statement
2.0-6	Table 2.0-1 (Sheet 5 of 5) Note 6.	Change: "These dispersion factors are used in the case of a fuel handling accident occurring in the fuel storage and handling area." to "These dispersion factors are used for a fuel handling accident occurring in the fuel storage and handling area." Editorial: Clarify scope of statement
2.0-6	Table 2.0-1 (Sheet 5 of 5) Note 7.	Change: "These dispersion factors are used in cases of a failure of small lines carrying primary coolant outside containment." to "These dispersion factors are used for a failure of small lines carrying primary coolant outside containment." Editorial: Clarify scope of statement

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.0-6	Table 2.0-1 (Sheet 5 of 5) Note 8.	Change: "These dispersion factors are used in cases of a fuel-handling accident inside the containment." to "These dispersion factors are used for a fuel-handling accident inside the containment." Editorial: Clarify scope of statement
2.0-6	Table 2.0-1 (Sheet 5 of 5) Note 9.	Change: "These dispersion factors are used in case of a LOCA." to "These dispersion factors are used for a LOCA." Editorial: Clarify scope of statement
2.0-6	Table 2.0-1 (Sheet 5 of 5) Note 10.	Change "These dispersion factors are used in cases a RCCA ejection accident." to "These dispersion factors are used for a rod ejection accident." Editorial: Clarify scope of statement & correct terminology
2.1-1	Subsection 2.1.1 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.1-1	Subsection 2.1.1.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.1.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.2 Entire Subsection	Add subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.1-1	Subsection 2.1.2.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.2.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.2.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.1-1	Subsection 2.1.2.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.3 Entire Subsection	Add subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.1-1	Subsection 2.1.3.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.3.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.3.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.3.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.3.5 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.3.6 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.1-1	Subsection 2.1.5 Reference 2.1-2	Delete reference in its entirety Editorial: No longer referenced within DCD
2.1-1	Subsection 2.1.5 Reference 2.1-3	Delete reference in its entirety Editorial: No longer referenced within DCD
2.2-1	Section 2.2 Entire Section	Replace section text in its entirety Editorial: Provide summary of site-specific requirements
2.2-1	Subsection 2.2.1 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.2-1	Subsection 2.2.2 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.2-1	Subsection 2.2.2.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.2.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.2.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.2.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.2.5 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.2.6 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.2.7 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.2.8 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.3 Entire Subsection	Replace subsection text in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.3.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.2-1	Subsection 2.2.3.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.2-2	Subsection 2.2.4 COL 2.2(1)	Change in its entirety to: <i>“The COL Applicant is to describe nearby industrial, transportation, and military facilities within 5 miles of the site, or at greater distances as appropriate based on their significance. The COL Applicant is to establish the presence of potential hazards, determine whether these accidents are to be considered as DBE, and the design parameters related to the accidents determined as DBEs.”</i> Editorial: Align COL item with DCD text
2.3-1	Section 2.3 2 nd Sentence	Replace in its entirety with the following: “The COL Applicant is to provide site-specific pre-operational and operational programs for meteorological measurements, and is to verify the site-specific regional climatology and local meteorology are bounded by the site parameters for the standard US-APWR design or demonstrate by some other means that the proposed facility and associated site-specific characteristics are acceptable at the proposed site.” Editorial: Clarify scope of statement [RAI 21 02.03.03-2, RAI 22 02.03.02-2, RAI 23 02.03.01-9]
2.3-1	Subsection 2.3.1 Entire Subsection	Add subsection text in its entirety Editorial: Provide summary of site-specific requirements [RAI 23 02.03.01-3, 02.03.01-4, 02.03.01-5, 02.03.01-6, 02.03.01-7, 02.03.01-8, 02.03.01-12]
2.3-1	Subsection 2.3.1.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.3-1	Subsection 2.3.1.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.3-1	Subsection 2.3.2 Entire Subsection	Add subsection text in its entirety Editorial: Provide summary of site-specific requirements [RAI 22 02.03.02-1]
2.3-1	Subsection 2.3.2.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.3-1	Subsection 2.3.2.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.3-1	Subsection 2.3.2.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.3-1	Subsection 2.3.3 1 st Paragraph	Replace in its entirety with the following: “The site-specific pre-operational and operational programs for meteorological measurements may include offsite satellite facilities. RG 1.23 (Reference 2.3-1) contains guidance on acceptable onsite meteorological programs, and any deviations from RG 1.23 guidance are to be identified and justified on a site-specific basis.” Editorial: Provide summary of site-specific requirements [RAI 21 02.03.03-1]
2.3-1	Subsection 2.3.3 3 rd through 6 th Paragraphs	Delete paragraphs in their entirety [RAI 21, 02.03.03-1]
2.3-1	Subsection 2.3.4.1 Title	Delete in its entirety: “2.3.4.1 Objective” Editorial: Superfluous subsection heading
2.3-1	Subsection 2.3.4.2 Title	Delete in its entirety: “2.3.4.2 Calculations” Editorial: Superfluous subsection heading
2.3-2	Subsection 2.3.5.1 Title	Delete in its entirety: “2.3.5.1 Objective” Editorial: Superfluous subsection heading
2.3-2	Subsection 2.3.5.2 Title	Delete in its entirety: “2.3.5.2 Calculations” Editorial: Superfluous subsection heading

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.3-2	Subsection 2.3.6 COL 2.3(1)	Change in its entirety to: <i>“The COL Applicant is to provide site-specific pre-operational and operational programs for meteorological measurements, and is to verify the site-specific regional climatology and local meteorology are bounded by the site parameters for the standard US-APWR design or demonstrate by some other means that the proposed facility and associated site-specific characteristics are acceptable at the proposed site.”</i> Editorial: Align COL item with DCD text [RAI 21 02.03.03-2, RAI 22 02.03.02-2, RAI 23 02.03.01-9]
2.3-3	Subsection 2.3.7 Reference 2.3-6	Add new Reference 2.3-6: <i>“Regional Meteorology. NUREG-0800, SRP 2.3.1, Rev.3, U.S. Nuclear Regulatory Commission, Washington, DC, March 2007.”</i> Editorial: Added new reference to text [RAI23 02.03.01-8]
2.3-3	Subsection 2.3.7 Reference 2.3-7	Add new Reference 2.3-7: <i>“Local Meteorology. NUREG-0800, SRP 2.3.2, Rev.3, U.S. Nuclear Regulatory Commission, Washington, DC, March 2007.”</i> Editorial: Added new reference to text [RAI22 02.03.02-1]
2.3-3	Subsection 2.3.7 Reference 2.3-8	Add new Reference 2.3-8: <i>“Advanced Light Water Reactor Utility Requirements Document. Rev. 8, Electric Power Research Institute, Palo Alto, CA, March 2007.”</i> Editorial: Added new reference to text [RAI 23 02.03.01-12]
2.4-1	Section 2.4 Entire Section	Replace section text in its entirety Editorial: Provide summary of hydrologic engineering information [RAI 13 02.04-2]
2.4-1	Subsection 2.4.1 Entire Subsection	Add subsection text in its entirety Editorial: Provide summary of hydrologic engineering requirements
2.4-1	Subsection 2.4.1.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.4-1	Subsection 2.4.1.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.2 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of flooding requirements
2.4-1	Subsection 2.4.2.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.2.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.2.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.3 Title	Change: “Probable Maximum Flood on Streams and Rivers” to “Probable Maximum Flood” Editorial: To clarify scope of subsection
2.4-1	Subsection 2.4.3 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of flooding requirements
2.4-1	Subsection 2.4.3.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.3.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.3.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.3.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.3.5 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.3.6 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.4-1	Subsection 2.4.4 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements [RAI 15 02.04.04-1, 02.04.04-2]
2.4-1	Subsection 2.4.4.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.4.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-1	Subsection 2.4.4.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.5 Entire Subsection	Add subsection text in its entirety Editorial: Provide summary of site-specific requirements [RAI 16 02.04.05-1]
2.4-2	Subsection 2.4.5.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.5.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.5.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.5.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.5.5 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.6 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.4-2	Subsection 2.4.6.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.4-2	Subsection 2.4.6.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.6.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.6.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.6.5 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.6.6 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.6.7 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-2	Subsection 2.4.7 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.4-2	Subsection 2.4.8 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.4-2	Subsection 2.4.9 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.4-2	Subsection 2.4.10 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.4-3	Subsection 2.4.11 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements [RAI 18 02.04.11-1]
2.4-3	Subsection 2.4.11.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.4-3	Subsection 2.4.11.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.11.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.11.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.11.5 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.11.6 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.12 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.4-3	Subsection 2.4.12.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.12.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.12.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.12.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.12.5 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.4-3	Subsection 2.4.13 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements [RAI 20 02.04.13-1]

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.4-3	Subsection 2.4.14 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements [RAI 24 02.04.14-1]
2.4-4	Subsection 2.4.15 COL 2.4(1)	Change in its entirety to: <i>“The COL Applicant is to provide sufficient information to verify that hydrologic related events will not affect the safety-basis for the US-APWR.”</i> Editorial: Align COL item with DCD text
2.4-4	Subsection 2.4.16 Entire Subsection	Delete subsection in its entirety Editorial: No longer referenced within DCD
2.4-5	Table 2.4-1 Note 2	Change: “Water Demands depends on type of ultimate heat sink” to “Water Demands depend on type of UHS” Editorial: Replace with applicable acronym
2.5-1	Section 2.5 Entire Section	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-1	Subsection 2.5.1 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-1	Subsection 2.5.1.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-1	Subsection 2.5.1.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-1	Subsection 2.5.2 1 st Paragraph, 3 rd & 4 th Sentences	Change: “The US-APWR design response spectra will follow a modified ...spectra. Subsection 3.7.1.1 define this approach ... ” to “The US-APWR design response spectra follow a modified ...spectra. Subsection 3.7.1.1 defines this approach ...” Editorial: State as process opposed to future activity

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.5-2	Subsection 2.5.2.1 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-2	Subsection 2.5.2.2 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-2	Subsection 2.5.2.3 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-2	Subsection 2.5.2.4 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-2	Subsection 2.5.2.5 1 st Paragraph, 1 st Sentence	Change: "A description is to be provided ..." to "A site-specific description is provided ..." Editorial: Clarify scope of statement and state as process opposed to future activity
2.5-2	Subsection 2.5.2.5 2 nd , 3 rd , & 4 th Paragraphs	Replace paragraphs in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-3	Subsection 2.5.2.6 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-3	Subsection 2.5.3 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-3	Subsection 2.5.3.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-3	Subsection 2.5.3.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-3	Subsection 2.5.3.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.5-3	Subsection 2.5.3.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-3	Subsection 2.5.3.5 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-3	Subsection 2.5.3.6 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-3	Subsection 2.5.3.7 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-3	Subsection 2.5.3.8 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-3	Subsection 2.5.4 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-3	Subsection 2.5.4.1 2 nd Paragraph	Delete: Paragraph in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-4	Subsection 2.5.4.2 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-4	Subsection 2.5.4.3 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-4	Subsection 2.5.4.4 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-4	Subsection 2.5.4.5 1 st Paragraph 1 st Sentence	Change: "The following data concerning excavation, backfill, and earthwork analyses at the site is to be discussed:" to "Site-specific data concerning excavation, backfill, and earthwork analyses includes the following information:" Editorial: Provide summary of site-specific requirements

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.5-5	Subsection 2.5.4.6 1 st Paragraph 1 st Sentence	Change: "The following ground water conditions at the site are to be discussed:" to "Site-specific ground water conditions include the following information:" Editorial: Provide summary of site-specific requirements
2.5-5	Subsection 2.5.4.6 2 nd Paragraph	Change: "If the analysis of ground water at the site as discussed in this chapter has not been completed at the time the COLA, a description of the implementation program, including milestones, is to be included." to "If the analysis of ground water at the site has not been completed at the time the COLA, a description of the implementation program, including milestones, is to be included." Editorial: Grammatical rewording
2.5-5	Subsection 2.5.4.7 1 st Paragraph, 1 st Sentence	Change: "... including the following information: ..." to "... including the following information as appropriate: ..." Editorial: Clarify scope of statement
2.5-5	Subsection 2.5.4.7 2 nd Paragraph	Delete in its entirety Editorial: Extraneous information
2.5-5	Subsection 2.5.4.8 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-5	Subsection 2.5.4.9 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-6	Subsection 2.5.4.10 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-6	Subsection 2.5.4.11 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.5-6	Subsection 2.5.4.12 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-6	Subsection 2.5.5 Entire Subsection	Replace subsection text in its entirety Editorial: Provide summary of site-specific requirements
2.5-6	Subsection 2.5.5.1 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-6	Subsection 2.5.5.2 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-6	Subsection 2.5.5.3 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-6	Subsection 2.5.5.4 Entire Subsection	Delete subsection in its entirety Editorial: Extraneous verbiage with RG 1.206
2.5-6	Subsection 2.5.6 COL 2.5(1)	Change in its entirety to: <i>“The COL Applicant is to provide sufficient information regarding the seismic and geologic characteristics of the site and the region surrounding the site.”</i> Editorial: Remove superfluous words from statement.
2.5-7	Subsection 2.5.7 Reference 2.5-2	Delete reference in its entirety Editorial: No longer referenced within DCD
2.5-7	Subsection 2.5.7 Reference 2.5-3	Delete reference in its entirety Editorial: No longer referenced within DCD
2.5-7	Subsection 2.5.7 Reference 2.5-4	Delete reference in its entirety Editorial: No longer referenced within DCD
2.5-7	Subsection 2.5.7 Reference 2.5-5	Change: “2.5-5” to “2.5-2” Editorial: Realign numbering of references

US-APWR DCD Chapter 2 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
2.5-7	Subsection 2.5.7 Reference 2.5-6 (1 st occurrence)	Change: "2.5-6" to "2.5-3" Editorial: Realign numbering of references
2.5-7	Subsection 2.5.7 Reference 2.5-7	Delete reference in its entirety Editorial: No longer referenced within DCD
2.5-7	Subsection 2.5.7 Reference 2.5-6 (2 nd occurrence)	Delete reference in its entirety Editorial: Duplicate entry

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.1-1	Subsection 3.1.1.1.1 1 st Paragraph, last sentence	Change: "... the Combined License (COL) Applicant." to "... the Combined License (COL) Applicant/Licensee." Editorial: Clarify consistency with lifetime duration.
3.1-4	Subsection 3.1.1.5.1 1 st Paragraph	Change: "The US-APWR is a single plant, and does not share safety-related SSCs with other units/plants. ... Similarly, if one or more other units were built at the same site, the safety-related systems and components would not be shared." to "This design control document (DCD) focuses on the US-APWR as a single plant. Safety-related SSCs are not shared with other units/plants including other US-APWR unit(s)." Editorial: Clarify scope of statement
3.1-8	Subsection 3.1.2.6.1 4 th Paragraph, 3 rd Sentence	Change: "The ASME criteria are satisfactory, ..." to "Use of the ASME criteria is satisfactory, ..." Editorial: Clarify scope of statement
3.1-10	Subsection 3.1.2.8.1 5 th Paragraph	Change: "The reserve auxiliary transformer supplies alternate preferred (offsite) power to the Class 1E ac system. Each reserve auxiliary transformer has the capacity to supply all connected non Class 1E running loads. The unit auxiliary transformers may also supply normal preferred (offsite) power to either one of the Class 1E, 6.9 kv, buses." to "The reserve auxiliary transformer supplies normal preferred (offsite) power to the Class 1E ac system. Each reserve auxiliary transformer has the capacity to supply all connected running loads. The unit auxiliary transformers may also supply alternate preferred (offsite) power to all connected running loads." Editorial: Clarify scope of statement
3.1-18	Subsection 3.1.3.7.1 4 th Paragraph, 1 st Sentence	Change: "...their operation is..." to "...their control system is..." Editorial: Clarify scope of statement
3.1-20	Section 3.1.4.2.1 2 nd Paragraph, 1 st Bullet, 2 nd Sentence	Change: "... (ASTM) E-185-02 (Reference 3.1-8) Standard for Conducting Surveillance ..." to "... (ASTM) E-185-82 (Reference 3.1-8) Standard Practice for Conducting Surveillance ..." Editorial: Correct document number and title

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.1-28, and 3.1-29	Subsection 3.1.4.12.1 1 st and 2 nd Paragraphs	<p>Replace 1st and 2nd paragraphs in their entirety with the following text.</p> <p>“US-APWR fission product control systems following a DBA includes the: CSS, and Annulus Emergency Exhaust System (AEES). The CSS is a dual function ESF System that provides heat removal and fission product removal following a LOCA. The fission product in particulate form is mechanically removed by the CSS and the fission product in gaseous form (radio-iodine is the primary concern) is controlled by adjustment of the RWSP pH by use of chemicals. The CSS consists of four independent subsystems, each supplied power from separate Class 1E buses. The CSS has sufficient redundancy to perform its required safety functions following an accident assuming a single failure in one train with a second train out of service for maintenance. The AEES is designed for fission product removal by ventilation and air filtration following a DBA. The AEES prevents uncontrolled release to the environment from containment, exhaust air. The AEES is powered from the Class 1E buses so specified safety-related functions are maintained during a loss of offsite power. The system is designed to perform the safety-related functions with a single active component failure.</p> <p>Hydrogen monitoring and control is provided for the unlikely occurrence of an accident that is more severe than a postulated DBA. The generation of hydrogen in the containment under these post-accident conditions has been evaluated. The hydrogen monitoring system (HMS) provides a hydrogen detector to detect hydrogen concentration in containment air extracted from containment, and provides continuous indication in the MCR. The hydrogen igniters of the hydrogen ignition system (HIS) reduce concentration of hydrogen in containment in such an environment. The HMS and HIS are supplied by the non-Class 1E P1 and P2 power system, with alternate power capability.</p> <p>Editorial: Corrected text to be similar to Chapters 6 and 8 text.</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.1-29	Subsection 3.1.4.13.1	<p>Replace paragraph in its entirety with the following text.</p> <p>The containment atmosphere cleanup, and hydrogen monitoring and control systems are designed and located so that they can be inspected periodically, as required. Portions of the essential equipment of the CSS are located outside the containment, except for risers, distribution header piping, spray nozzles, and the RWSP, which are located inside the PCCV. The AEES is located in the R/B. The hydrogen monitor is located outside containment. The hydrogen igniters are located inside the PCCV. The equipment located outside the PCCV may be inspected during normal power operation. Components of the CSS, and HIS that are located inside the PCCV, can be inspected during shutdowns. See Chapter 6 for details on these systems.</p> <p>Editorial: Corrected text to be similar to Chapter 6 text.</p>
3.1-29	Subsection 3.1.4.14.1 1 st Paragraph, 1 st Sentence	<p>Change: “The containment atmosphere cleanup systems include the CSS, Emergency Exhaust System, HMS and HMS.” to “The containment atmosphere cleanup, and hydrogen monitoring and control systems include the CSS, AEES, HMS and HIS.”</p> <p>Editorial: Corrected text to be similar to Chapter 6 text.</p>
3.1-30	Subsection 3.1.4.14.1 1 st paragraph, Last Sentence	<p>Change: “The Emergency Exhaust System is periodically tested in accordance with the inservice testing program required by Technical Specifications/Chapter 16.” to “The AEES is periodically tested in accordance with the testing/surveillance requirements of the Technical Specifications/Chapter 16.”</p> <p>Editorial: Corrected text to be similar to Chapter 6 and Technical Specification/Chapter 16 text.</p>
3.1-30	Subsection 3.1.4.16.1 1 st Paragraph, 3 rd Sentence	<p>Change: “... in Subsection 3.1.8.” to “... in Section 9.2.”</p> <p>Editorial: Correct section reference.</p>
3.1-30	Subsection 3.1.4.16.1 1 st Paragraph, 4 th Sentence	<p>Change: “The COL Applicant is to provide a design that allows for the appropriate inspections of the ESWS.” to “The COL Applicant is to provide a design that allows for the appropriate inspections and layout features of the ESWS.”</p> <p>Editorial: Provide consistency wording with COL Item</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.1-39	Subsection 3.1.7 COL 3.1(1)	Change: "...inspections of the ESWS in accordance with GDC 45." to "...inspections and layout features of the ESWS." Editorial: Provided consistent COL Applicant action and wording
3.1-40	Reference 3.1-8	Change: " <u>Standard for Conducting Surveillance Tests for Light-Water Cooled Nuclear Power Reactor Vessels, ASTM E-185-02, American Society of Testing Materials.</u> " to " <u>Standard Practice for Conducting Surveillance Tests for Light-Water Cooled Nuclear Power Reactor Vessels, ASTM E-185-82, American Society of Testing Materials.</u> " Editorial: Correct document title and number
3.2-1	Subsection 3.2.1 2 nd Paragraph, 2 nd Sentence	Added new 3 rd Sentence: "The OBE is associated with plant shutdown" Editorial: Clarify scope of statement
3.2-1	Subsection 3.2.1 2 nd Paragraph, 4 th Sentence	Change: "...non-safety components..." to "...non-safety related components..." Editorial: Clarify scope of statement
3.2-1	Subsection 3.2.1 3 rd Paragraph 2 nd Sentence	Delete: "In accordance with GDC 1, a quality assurance (QA) program is established and implemented to provide adequate assurance that safety-related SSCs will perform their safety function and is described in Chapter 17." Editorial: Remove superfluous COL Applicant action
3.2-1	Subsection 3.2.1 3 rd Paragraph 2 nd Sentence	Change: "...(Reference 3.2-8) and is applicable to the design, procurement, fabrication, inspection, and/or testing activities." to "...(Reference 3.2-8)." Editorial: Removed superfluous information
3.2-2	Subsection 3.2.1 3 rd Paragraph, 4 th Sentence	Delete: "The specification and use of proven quality standards and requirements for the design of safety-related SSCs minimizes the potential for failures of those SSCs, including seismic category I SSCs that prevent or mitigate the consequences of postulated accidents that could cause undue risk to the health and safety of the public." Editorial: Remove superfluous COL Applicant action and information

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-3	Subsection 3.2.1.1.1 2nd Paragraph, 5th Sentence	Delete: "Some equipment Class 3 components may not have seismic safety-related functions and not designated seismic category I and are identified in Table 3.2-2." Editorial: Remove superfluous statement.
3.2-3	Subsection 3.2.1.1.1 3 rd Paragraph, 1 st Sentence	Change: "... whole body doses that are more than the recommended limits, shall be classified as seismic category I." to "... whole body doses that are more than the recommended limits, are classified as seismic category I." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.2-4	Subsection 3.2.1.1.2 2 nd Paragraph, 1 st Sentence	Change: "Seismic category II SSCs shall be analyzed and designed ..." to "Seismic category II SSCs are analyzed and designed ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.2-4	Subsection 3.2.1.1.2 3 rd Paragraph, 1 st Sentence	Change: "... (Reference 3.2-8); sufficiently to assure ..." to "... (Reference 3.2-8) to such an extent as to assure ..." Editorial: Clarify scope of statement
3.2-4	Subsection 3.2.1.1.3 1 st Paragraph, 3 rd Sentence	Change: "The NS SSCs are located outside of safety-related buildings ..." to "The NS SSCs are primarily located outside of safety-related buildings ..." Editorial: Clarify statement as primary means of protecting seismic category I equipment
3.2-4	Subsection 3.2.1.1.3 1 st Paragraph, 4 th Sentence	Change: "... then it is designed as seismic category II to withstand an SSE event ..." to "... then it is designed and/or mounted in accordance with seismic category II requirements to withstand an SSE event ..." Editorial: Recognize the possibility of NS SSC mounting to satisfy seismic category II requirements
3.2-4	Subsection 3.2.1.1.3 2 nd Paragraph, 1 st Sentence	Change: "NS SSCs are designed and constructed to the standard building code requirements." to "NS SSCs are designed and constructed to the applicable standard building code requirements, industry codes and standards, and/or manufacturing standards." Editorial: Clarify that reference to code requirements includes applicable industry and manufacturing codes and standards

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-4	Subsection 3.2.1.1.3 3 rd Paragraph, 1 st Sentence	Change: "For NS items located in the proximity of safety-related SSCs that are upgraded to seismic category II, the pre-assigned equipment class remains unchanged." to "For NS items located in the proximity of safety-related SSCs that meet seismic category II requirements by their mounting, the pre-assigned equipment class remains unchanged." Editorial: Clarify that if NS SSC meets seismic category II mounting requirements, the SSC remains classified as NS
3.2-5	Subsection 3.2.1.2 1 st Paragraph 4 th Sentence	Add new sentence: "The COL Applicant is to identify the site-specific, safety-related systems and components that are designed to withstand the effects of earthquakes without loss of capability to perform their safety function; and those site-specific, safety-related fluid systems or portions thereof; as well as the applicable industry codes and standards for pressure-retaining components." Editorial: Provide consistent COL Applicant action with the intent of this section
3.2-5	Subsection 3.2.1.2 Last Paragraph	Changed:... safety-related electrical, ..." to "... safety-related and important to safety electrical, ..."
3.2-5	Subsection 3.2.1.3 Entire Paragraph	Replace paragraph with: "Table 3.2-4 provides the designated seismic category of building and structures (seismic category I, II, and NS). The US-APWR Nuclear Island consists of the R/B, PCCV, containment internal structure, A/B, access building (AC/B), and east and west power source buildings (PS/Bs). The US-APWR design includes the R/B, PCCV, containment internal structure, A/B, turbine building (T/B), and PS/B (east and west). Unique non-standard buildings and structures in Table 3.2-4 include the UHSRS, ESWPT, PSFSV, NS T/G Pedestal, and NS Outside Buildings. Minor NS Buildings and all structures in the plant yard are generally not listed in Table 3.2-4. Design of all plant buildings and structures are addressed where appropriate in Chapter 3 and its appendices." Editorial: Provide consistent COL Applicant action and wording, and consistent wording with Table 3.2-4
3.2-6	Subsection 3.2.2 9 th Paragraph, 2 nd Sentence	Changed: "Safety-related electrical ..." to "Safety-related and important to safety electrical ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-7	Subsection 3.2.2 11 th Paragraph, 3 rd Sentence	Change: "Table 3.2-1..." to "Table 3.2-3..." Editorial: Correct table number
3.2-7	Subsection 3.2.2 11 th Paragraph, 4 th Sentence	Add new sentence: "The COL Applicant is to identify the equipment class and seismic category of the site-specific, safety-related and non safety-related fluid systems, components (including pressure retaining), and equipment as well as the applicable industry codes and standards." Editorial: Provided consistent wording for COL Applicant action and intent of this section
3.2-9	Subsection 3.2.2.3 1 st Paragraph, 2 nd Bullet	Change: "...such as RCPs, emergency power source (gas turbines), and the MCR" to "... such as RCPs and the MCR." Technical: Remove unrelated components
3.2-9	Subsection 3.2.2.3 3 rd Paragraph, 3 rd Sentence	Change: "... Subsection NF requirements and the same QA criteria for components applies." to "... Subsection NF requirements, and the same QA criteria for components apply to the supports." Editorial: Correct grammatical error
3.2-11	Subsection 3.2.3 COL 3.2(1)	Change: " <i>The COL Applicant is to assure that safety-related SSCs are included in the scope of the COL Applicant's QA Program and be in compliance with the pertinent QA requirements of 10 CFR 50, Appendix B (Reference 3.2-8).</i> " to " <i>Deleted</i> " Editorial: Removed superfluous COL Applicant actions
3.2-11	Subsection 3.2.3 COL 3.2(2)	Change: " <i>The COL Applicant is to assure procedures exist for the design, fabrication, erection, construction, testing, and inspection, including requirements and restrictions (e.g., interface requirements and site parameters).</i> " to " <i>Deleted</i> " Editorial: Removed superfluous COL Applicant actions
3.2-11	Subsection 3.2.3 COL 3.2(3)	Change: " <i>The unique non-standard building structures are separately addressed by the COL Applicant.</i> " to " <i>Deleted</i> " Editorial: Removed superfluous COL Applicant actions

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-11	Subsection 3.2.3 COL 3.2(3)	Add below: “COL 3.2(4) <i>The COL Applicant is to identify the site-specific, safety-related systems and components that are designed to withstand the effects of earthquakes without loss of capability to perform their safety function; and those site-specific, safety-related fluid systems or portions thereof; as well as the applicable industry codes and standards for pressure-retaining components.</i> ” Editorial: Provided consistent COL Applicant action with intent of this section
3.2-11	Subsection 3.2.3 COL 3.2(3)	Add below: “COL 3.2(5) <i>The COL Applicant is to identify the equipment class and seismic category of the site-specific, safety-related and non safety-related fluid systems, components (including pressure retaining), and equipment as well as the applicable industry codes and standards.</i> ” Editorial: Provided consistent COL Applicant action with the intent of this section
3.2-13	Subsection 3.2.4 Reference 3.2-26	Delete in it’s entirety Editorial: Superfluous reference for acceptance criteria
3.2-15	Table 3.2-1 (Sheet 2) 9 th Row	Change: “Non-essential electrical room air handling unit fan” to “Non-Class 1E electrical room air handling unit fan” Editorial: Correct component description.
3.2-15	Table 3.2-1 (Sheet 2) 10 th Row	Change: “Non-safety-related chillers” to “Non-essential chiller units” Editorial: Correct component description.
3.2-15	Table 3.2-1 (Sheet 2) 11 th Row	Change: “Non-safety-related chilled water pumps” to “Non-essential chilled water pumps” Editorial: Correct component description.
3.2-16 thru 3.2-65	Table 3.2-2 (ALL Sheets) 1 st Row, 6 th Column	Change: “Code and Standards” to “Codes and Standards ⁽³⁾ ” Editorial: Add existing footnote as applicable to clarify
3.2-20	Table 3.2-2 (Sheet 5) 7 th Row, 3 rd Column	Change: “A/B” to “R/B” Editorial: Correct location description
3.2-21	Table 3.2-2 (Sheet 6) 7 th Row, 3 rd Column	Change: “A/B” to “R/B” Editorial: Correct location description
3.2-21	Table 3.2-2 (Sheet 6) 16 th Row, 7 th Column	Change: “NS” to “I” Editorial: Correct seismic category description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-21	Table 3.2-2 (Sheet 6) 17 th Row, 7 th Column	Change: "NS" to "I" Editorial: Correct seismic category description
3.2-29	Table 3.2-2 (Sheet 14) 8 th Row, 1 st Column	Delete: "...up to and including orifices" Editorial: Correct systems and components description
3.2-29	Table 3.2-2 (Sheet 14) 9 th Row, 1 st Column	Change: "SIS-VLV-114" to "SIS-AOV-114" Editorial: Correct acronym error
3.2-31	Table 3.2-2 (Sheet 16) 6 th Row	Add in new row below: "Emergency feedwater pump turbine steam drain pots; 4; R/B; D; N/A; 4; NS" Editorial: Correct the systems and components description
3.2-32	Table 3.2-2 (Sheet 17) 3 rd Row	Delete row in its entirety Editorial: Correct system and components description
3.2-32	Table 3.2-2 (Sheet 17) 4 th Row, 1 st Column	Change: "...fullflow line to..." to "...fullflow piping and valves to..." Editorial: Correct system and components description
3.2-32	Table 3.2-2 (Sheet 17) 6 th Row, 1 st Column	Change: "...supply line piping..." to "...supply piping..." Editorial: Correct system and components description
3.2-32	Table 3.2-2 (Sheet 17) 7 th Row, 1 st Column	Change: "...suction line piping from... EFS-VLV-004" to "...suction piping and valves from ... EFS-VLV-006 A,B"
3.2-32	Table 3.2-2 (Sheet 17) 8 th Row	Delete row in its entirety Editorial: Correct system and components description
3.2-32	Table 3.2-2 (Sheet 17) 8 th Row	Add new 9 th row below: "Emergency feedwater pit sampling piping up to and including EFS-VLV-041A,B; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-32	Table 3.2-2 (Sheet 17) 8 th Row	Add new 10 th row below: "Emergency feedwater pit overflow piping; 4; R/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-32	Table 3.2-2 (Sheet 17) 8 th Row	Add new 11 th row below: "Emergency feedwater pit drain piping and valves up to and including EFS-VLV-042A,B; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-32	Table 3.2-2 (Sheet 17) 8 th Row	Add new 12 th row below: "Water supply piping and valves from emergency feedwater pits to spent fuel pit up to and including EFS-VLV-031; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-33	Table 3.2-2 (Sheet 18) 1 st Row	Add in new 2 nd row below: "Emergency feedwater supply piping to spent fuel pit between and excluding EFS-VLV-031 and SFS-VLV-023; 4; R/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-33	Table 3.2-2 (Sheet 18) 1 st Row	Add in new 3 rd row below: "Turbine driven emergency feedwater pump steam supply piping and valves from and excluding EFS-MOV-101A,B; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-33	Table 3.2-2 (Sheet 18) 1 st Row	Add in new 4 th row below: "Turbine driven emergency feedwater pump steam supply piping drain piping and valves up to and including EFS-VLV-109A,B; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-33	Table 3.2-2 (Sheet 18) 1 st Row	Add in new 5 th row below: "Turbine driven emergency feedwater pump steam supply piping warming piping and valves; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-33	Table 3.2-2 (Sheet 18) 1 st Row	Add in new 6 th row below: "Turbine driven emergency feedwater pump steam supply piping drain piping and valves up to and including EFS-VLV-117A,B, 114A,B, 111A,B, LCV-3776,3777,3778,3786,3787,3788; 3; R/B; C; YES; 3; I " Editorial: Correct system and components description
3.2-33	Table 3.2-2 (Sheet 18) 1 st Row	Add in new 7 th row below: "Turbine driven emergency feedwater pump steam supply piping drain piping and valves downstream and excluding EFS-VLV-117A,B,114A,B, 111A,B, LCV-3776,3777,3778,3786,3787,3788; 4; R/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-33	Table 3.2-2 (Sheet 18) 1 st Row	Add in new 8 th row below: "Turbine driven emergency feedwater pump steam exhaust piping; 4; R/B; D; N/A; 4; NS" Editorial: Correct system and components description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.2-34	Table 3.2-2 (Sheet 19) 1 st Row	Add in new 2 nd row below: "Turbine driven emergency feedwater pump steam exhaust piping drain piping; 4; R/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-34	Table 3.2-2 (Sheet 19) 1 st Row	Add in new 3 rd row below: "Emergency feedwater pump turbine steam drain pot drain piping and valves; 4; R/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-34	Table 3.2-2 (Sheet 19) 1 st Row	Add in new 4 th row below: "Emergency feedwater pump turbine steam drain pot cooling water supply piping and valves; 4 R/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-34	Table 3.2-2 (Sheet 19) 7 th Row, 3 rd Column	Add: "PCCV" Editorial: Correct location description
3.2-34	Table 3.2-2 (Sheet 19) 7 th Row	Add in new 8 th row below: "Main feedwater piping upstream of the restraint at the interface between the R/B and the T/B; 4; T/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-34	Table 3.2-2 (Sheet 19) 7 th Row	Add in new 9 th row below: "Emergency feedwater piping from and excluding EFS-MOV-019A,B,C,D; 2; R/B; B; YES; 2; I" Editorial: Correct system and components description
3.2-34	Table 3.2-2 (Sheet 19) 7 th Row	Add in new 10 th row below: "High pressure cleanup piping and valves in the R/B; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-34	Table 3.2-2 (Sheet 19) 7 th Row	Add in new 11 th row below: "High pressure cleanup piping and valves out of the R/B; 4; T/B; D; NAI 4 NS" Editorial: Correct system and components description
3.2-35	Table 3.2-2 (Sheet 20) 1 st Row	Add in new 2 nd row below: "Steam generator water filling piping and valves in the R/B; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-35	Table 3.2-2 (Sheet 20) 1 st Row	Add in new 3 rd row below: "Steam generator water filling piping and valves out of the R/B; 4; T/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-35	Table 3.2-2 (Sheet 20) 4 th Row, 1 st Column	Change: "8. Main Steam System (MSS)" to "8. Main Steam Supply System (MSS)" Editorial: Correct system and components description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-36	Table 3.2-2 (Sheet 21) 2 nd Row, 1 st Column	Change: "Main steam piping including...Nitrogen line valves..." to "Main steam piping and valves including...Nitrogen supply piping valves..." Editorial: Correct System and components description
3.2-37	Table 3.2-2 (Sheet 22) 2 nd Row, 1 st Column	Change: "Branch lines from the main steam piping to the emergency feedwater system pump turbines up to and excluding emergency feedwater system motor operation valve" to "Branch piping from the main steam piping to the turbine driven emergency feedwater system pump turbines up to and excluding EFS-MOV-101A,B,C,D" Editorial: Correct System and components description
3.2-37	Table 3.2-2 (Sheet 22) 3 rd Row, 1 st Column	Change: "Main steam drain piping located..." to "Main steam drain piping and valves located..." Editorial: Correct System and components description
3.2-37	Table 3.2-2 (Sheet 22) 4 th Row, 1 st Column	Change: "Change MSS piping...restraint located between..." to "Main steam piping...restraint at the interface between..." Editorial: Correct System and components description
3.2-37	Table 3.2-2 (Sheet 22) 6 th Row, 1 st Column	Change: "MSS piping... Main steam relief Valves and main steam depressurization Valves..." to "Main steam piping... main steam relief valves and main steam depressurization valves..." Editorial: Correct System and components description
3.2-37	Table 3.2-2 (Sheet 22) 6 th Row	Add in new 7 th row below: "Main steam safety valves discharge piping out of the R/B; 4; O/B; D; N/A; 4; NS" Editorial: Correct System and components description
3.2-37	Table 3.2-2 (Sheet 22) 6 th Row	Add in new 8 th row below: "MSS piping downstream of the main steam relief valves and main steam depressurization valves out of the R/B; 4; O/B; D; N/A; 4; NS" Editorial: Correct System and components description
3.2-38	Table 3.2-2 (Sheet 23) 1 st Row	Add in new 2 nd row below: "Turbine driven emergency feedwater pump steam supply piping drain piping and valves downstream and excluding EFS-VLV-109A,D; 3; R/B; C; YES; 3; I" Editorial: Correct System and components description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-38	Table 3.2-2 (Sheet 23) 1 st Row	Add in new 3 rd row below: "Main steam piping from the restraint at the interface between the R/B and the T/B to the turbine; 4; T/B; D; NA; 4; NS" Editorial: Correct System and components description
3.2-38	Table 3.2-2 (Sheet 23) 1 st Row	Add in new 4 th row below: "Main steam equalization piping; 4; T/B; D; N/A; 4; NS" Editorial: Correct System and components description
3.2-38	Table 3.2-2 (Sheet 23) 1 st Row	Add in new 5 th row below: "Main steam drain piping and valves in the turbine building; 4; T/B; D; N/A; 4; NS" Editorial: Correct System and components description
3.2-38	Table 3.2-2 (Sheet 23) 1 st Row	Add in new 6 th row below: "Nitrogen supply piping and valves up to and excluding NMS-VLV-531A,B,C,D; 4; T/B; D; N/A; 4; NS; " Editorial: Correct System and components description
3.2-38	Table 3.2-2 (Sheet 23) 1 st Row	Add in new 7 th row below: "Turbine bypass valves NMS-TCV-500A,B,C,D,E,F,G,H,J,K,L,M.N,P,Q; 4; T/B; D; N/A; 4; NS" Editorial: Correct System and components description
3.2-43	Table 3.2-2 (Sheet 28) 8 th Row, 5 th Column	Change: "N/B" to "N/A" Editorial: Correct 10 CFR 50 App. B description
3.2-44	Table 3.2-2 (Sheet 29) 2 nd Row, 5 th Column	Change: "N/B" to "N/A" Editorial: Correct 10 CFR 50 App. B description
3.2-45	Table 3.2-2 (Sheet 30) 2 nd Row, 1 st Column	Change: "...026..." to "...026,027..." and Delete: "SFS-VLV-133A,B" Editorial: Correct system and components description
3.2-45	Table 3.2-2 (Sheet 30) 3 rd Row, 1 st Column	Change: "...SFS-VLV-133A,B" to "...SFS-VLV-133A,B, A,B-Purification crosstie piping and valves" Editorial: Correct system and components description
3.2-45	Table 3.2-2 (Sheet 30) 3 rd Row	Add in new 4 th row below: "Spent fuel pit cooling piping and valves from and excluding RHS-VLV-032A,D; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-45	Table 3.2-2 (Sheet 30) 3 rd Row	Add in new 5 th row below: "Spent fuel pit cooling piping and valves from and excluding RHS-VLV-033A,D; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-45	Table 3.2-2 (Sheet 30) 3 rd Row	Add in new 6 th row below: "Water supply piping and valves from emergency feedwater pits from and including SFS-VLV-023 but excluding SFS-VLV-024; 4; R/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-45	Table 3.2-2 (Sheet 30) 3 rd Row	Add in new 8 th row below: "Water supply piping and valves from emergency feedwater pits to spent fuel pit from and including SFS-VLV-024; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-45	Table 3.2-2 (Sheet 30) 3 rd Row	Add in new 9 th row below: "Water supply piping and valves from demineralized water storage tank from and including SFS-VLV-025 up to but excluding SFS-VLV-026; 4; R/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-46	Table 3.2-2 (Sheet 31) 1 st Row	Add in new 2 nd row below: "Spent fuel pit purification line return piping to spent fuel pit from and including valves SFS-VLV-133A,B; 3; R/B; C; YES; 3; I" Editorial: Correct system and components description
3.2-46	Table 3.2-2 (Sheet 31) 1 st Row	Add in new 3 rd row below: "Spent fuel pit demineralizer piping and valves within the following boundaries: A,B-Main purification line-resin backwashing/primary makeup water line junction points; From and including valves SFS-VLV-141A,B; Up to and including valves SFS-VLV-165A,B; A,B-Demineralizer upstream and downstream piping up to and including valves SFS-VLV-153A,B; 4; A/B; D; N/A; 4; NS" Editorial: Correct system and components description
3.2-48	Table 3.2-2 (Sheet 33) 22 nd Row, 3 rd Column	Change: "R/V to "R/B" Editorial Correct typographical error
3.2-51	Table 3.2-2 (Sheet 36) 10 th Row, 1 st Column	Delete row in its entirety Editorial: Correct system and components description
3.2-51	Table 3.2-2 (Sheet 36) 11 th Row, 1 st Column	Delete row in its entirety Editorial: Correct system and components description
3.2-51	Table 3.2-2 (Sheet 36) 12 th Row, 1 st Column	Delete row in its entirety Editorial: Correct system and components description
3.2-51	Table 3.2-2 (Sheet 36) 16 th Row, 3 rd Column	Change: "A/B" to "O/B" Editorial: Correct location description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.2-52	Table 3.2-2 (Sheet 37) 5 th Row	Add in new 6 th row below: "Steam generator Blowdown system piping valves in the reactor building, the auxiliary building and the turbine building; 4; T/B R/B A/B; D; N/A; 4; NS" Editorial: Correct erroneously omit
3.2-52	Table 3.2-2 (Sheet 37) 6 th Row, 1 st Column	Delete: "... (FSS) " Editorial: Correct the error
3.2-52	Table 3.2-2 (Sheet 37) 8 th Row, 3 rd Column	Change: "...A/B,...PS/B,..." to "...A/B...PS/B..." Editorial: Correct expression
3.2-53	Table 3.2-2 (Sheet 38) 9 th Row	Add in new 10 th row below: "Containment vessel atmosphere gas sample cooler-component cooling water side; 3; R/B; C; YES; 3; I" Editorial: Correct erroneously omit
3.2-55	Table 3.2-2 (Sheet 40) 2 nd Row, 1 st Column	Change: "...System components." to "...System components, piping and valves." Editorial: Correct system and component description
3.2-56	Table 3.2-2 (Sheet 41) 11 th Row, 1 st Column	Change: "... cooling coils" to "... cooling coil" Editorial: Correct component description
3.2-56	Table 3.2-2 (Sheet 41) 13 th Row, 1 st Column	Change: "... filtration units" to "... filtration unit" Editorial: Correct component description.
3.2-56	Table 3.2-2 (Sheet 41) 16 th Row, 1 st Column	Change: "... handling unit" to "... handling units" Editorial: Correct component description.
3.2-57	Table 3.2-2 (Sheet 42) 1 st Row	Add in new 2 nd row below: "Containment low volume purge exhaust filtration units; 5; R/B; N/A; N/A; 5; NS" Editorial: Added new component information
3.2-57	Table 3.2-2 (Sheet 42) 7 th Row, 3 rd Column	Change: "R/V" to "R/B" Editorial: Correct acronym
3.2-57	Table 3.2-2 (Sheet 42) 9 th Row, 3 rd Column	Change: "R/V" to "R/B" Editorial: Correct acronym.
3.2-57	Table 3.2-2 (Sheet 42) 11 th Row	Add in new 12 th row below: "Containment fan cooler unit; 5; PCCV; N/A; N/A; 5; II" Editorial: Correct erroneously omit
3.2-57	Table 3.2-2 (Sheet 42) 13 th Row, 2 nd Column	Change: "4" to "2" Editorial: Correct classification

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.2-57	Table 3.2-2 (Sheet 42) 13 th Row, 4 th Column	Change: "D" to "B" Editorial: Correct classification
3.2-57	Table 3.2-2 (Sheet 42) 13 th Row, 5 th Column	Change: "N/A" to "YES" Editorial: Correct classification
3.2-57	Table 3.2-2 (Sheet 42) 13 th Row, 7 th Column	Change: "NS" to "I" Editorial: Correct classification
3.2-57	Table 3.2-2 (Sheet 42) 16 th Row (33. Control Rod Drive Mechanism Cooling System)	Delete from 4 th and 5 th columns: " <u>N/A</u> " Editorial: Information is not applicable.
3.2-57	Table 3.2-2 (Sheet 42) 17 th Row, 2 nd Column	Change: "5" to "2" Editorial: Correct classification
3.2-57	Table 3.2-2 (Sheet 42) 17 th Row, 4 th Column	Change: "N/A" to "B" Editorial: Correct classification
3.2-57	Table 3.2-2 (Sheet 42) 17 th Row, 5 th Column	Change: "N/A" to "YES" Editorial: Correct classification
3.2-57	Table 3.2-2 (Sheet 42) 17 th Row, 7 th Column	Change: "NS" to "I" Editorial: Correct classification
3.2-58	Table 3.2-2 (Sheet 43) 1 st Row	Add in new 2 nd row below: "Control rod drive mechanism cooling unit; 5; PCCV; N/A; N/A; 5; II" Editorial: Correct erroneously omit
3.2-58	Table 3.2-2 (Sheet 43) 3 rd Row, 2 nd Column	Change: "4" to "2" Editorial: Correct equipment class
3.2-58	Table 3.2-2 (Sheet 43) 3 rd Row, 4 th Column	Change: "N/A" to "B" Editorial: Correct component information.
3.2-58	Table 3.2-2 (Sheet 43) 3 rd Row, 7 th Column	Change: "NS" to "I" Editorial: Correct seismic category
3.2-58	Table 3.2-2 (Sheet 43) 6 th Row (34. Reactor Cavity Cooling System)	Delete from 4 th and 5 th columns: " <u>N/A</u> " Editorial: Information is not applicable.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.2-58	Table 3.2-2 (Sheet 43) 6 th Row (34. Reactor Cavity Cooling System)	Delete from 7 th column: “NS” Editorial: Information is not applicable.
3.2-58	Table 3.2-2 (Sheet 43) 16 th Row, 1 st Column	Delete: “(HVAC)” Editorial: Acronym not necessary.
3.2-59	Table 3.2-2 (Sheet 44) 4 th Row	Add in new 5 th row below: “Main control room emergency filtration units; 3; R/B; C; YES; 5; I” Editorial: Add new component information.
3.2-59	Table 3.2-2 (Sheet 44) 12 th Row, 7 th Column	Change: “I” to “II” Editorial: Correct erroneously omit.
3.2-59	Table 3.2-2 (Sheet 44) 13 th Row	Delete row in its entirety Editorial: Remove superfluous description
3.2-60	Table 3.2-2 (Sheet 45) 5 th Row, 7 th Column	Change: “I” to “II” Editorial: Correct erroneously omit.
3.2-60	Table 3.2-2 (Sheet 45) 6 th Row	Delete row in its entirety Editorial: Remove superfluous description
3.2-60	Table 3.2-2 (Sheet 45) 15 th Row, 1 st Column	Change: “...handling unit” to “... handling units” Editorial: Correct component description.
3.2-61	Table 3.2-2 (Sheet 46) 4 th Row	Delete row in its entirety Editorial: Remove superfluous description
3.2-61	Table 3.2-2 (Sheet 46) 7 th Row (Penetration area air handling unit filters)	Delete Row in it’s entirety Editorial: Components are not applicable.
3.2-61	Table 3.2-2 (Sheet 46) 10 th Row, 1 st Column	Change: “Penetration area air handling electric heating units” to “Penetration area air handling unit electric heating coils” Editorial: Correct component description.
3.2-62	Table 3.2-2 (Sheet 47) 2 nd Row, 1 st Column	Change: “Charging pump area air handling electric heating coils” to “Charging pump area air handling unit electric heating coils” Editorial: Correct component description.
3.2-62	Table 3.2-2 (Sheet 47) 4 th Row, 1 st Column	Change: “... unit fan” to “... unit fans” Editorial: Correct component description.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.2-62	Table 3.2-2 (Sheet 47) 7 th Row, 3 rd Column	Change: "R/B" to "PS/B" Editorial: Correct component information.
3.2-62	Table 3.2-2 (Sheet 47) 8 th Row, 3 rd Column	Change: "R/B" to "PS/B" Editorial: Correct component information.
3.2-62	Table 3.2-2 (Sheet 47) 9 th Row, 3 rd Column	Change: "R/B" to "PS/B" Editorial: Correct component information.
3.2-62	Table 3.2-2 (Sheet 47) 10 th Row, 3 rd Column	Change: "R/B" to "PS/B" Editorial: Correct component information.
3.2-62	Table 3.2-2 (Sheet 47) 11 th Row, 6 th Column	Delete: " <u>5</u> " Editorial: Information is not applicable.
3.2-62	Table 3.2-2 (Sheet 47) 11 th Row, 7 th Column	Delete: " <u>NS</u> " Editorial: Information is not applicable.
3.2-62	Table 3.2-2 (Sheet 47) 12 th Row	Delete Row in it's entirety Editorial: Duplicate component description
3.2-63	Table 3.2-2 (Sheet 48) 9 th Row	Add in new 10 th row below: "Penetration and Safeguard Component area isolation dampers and ductwork between Penetration and Safeguard Component area isolation damper; 2; R/B; B; YES; 5; I" Editorial: Add new component information.
3.2-63	Table 3.2-2 (Sheet 48) 11 th Row, 7 th Column	Change: "NS" to "I" Editorial: Correct component information.
3.2-63	Table 3.2-2 (Sheet 48) 12 th Row, 3 rd Column	Add: "PS/B" Editorial: Correct component information.
3.2-63	Table 3.2-2 (Sheet 48) 13 th Row, 3 rd Column	Add: "PS/B" Editorial: Correct component information.
3.2-63	Table 3.2-2 (Sheet 48) 14 th Row, 7 th Column	Delete: " <u>I</u> " Editorial: Information is not applicable.
3.2-64	Table 3.2-2 (Sheet 49) 8 th Row, 7 th Column	Delete: " <u>I</u> " Editorial: Information is not applicable.
3.2-64	Table 3.2-2 (Sheet 49) 12 th Row, 1 st Column	Change: "Technical support center air handling unit heating coil" to "Technical support center air handling unit electric heating coil" Editorial: Correct component description.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.2-64	Table 3.2-2 (Sheet 49) 13 th Row, 12 th Column	Change: "A/B" to "AC/B" Technical: Change of location
3.2-65	Table 3.2-2 (Sheet 50) 8 th Row, 3 rd Column	Change: "R/B" to "PS/B" Editorial: Correct acronym
3.2-65	Table 3.2-2 (Sheet 50) 9 th Row, 3 rd Column	Remove "A/B" Editorial: Remove superfluous word
3.2-65	Table 3.2-2 (Sheet 50) 13 th Row, 1 st Column	Change: "... compression tank" to "... compression tanks" Editorial: Corrected component description.
3.2-65	Table 3.2-2 (Sheet 50) 15 th Row, 2 nd Column	Add: "4" Editorial: Add missing component information.
3.2-65	Table 3.2-2 (Sheet 50) 15 th Row, 3 rd Column	Add: "A/B" Editorial: Add missing component information.
3.2-65	Table 3.2-2 (Sheet 50) 15 th Row, 4 th Column	Add: "D" Editorial: Add missing component information.
3.2-65	Table 3.2-2 (Sheet 50) 15 th Row, 5 th Column	Add: "N/A" Editorial: Add missing component information.
3.2-65	Table 3.2-2 (Sheet 50) 15 th Row, 6 th Column	Add: "5" Editorial: Add missing component information.
3.2-65	Table 3.2-2 (Sheet 50) 15 th Row, 7 th Column	Add: "NS" Editorial: Add missing component information.
3.2-66	Table 3.2-2 (Sheet 51) 2 nd Row, 3 rd Column	Add: "T/B" Editorial: Add missing component information.
3.2-66	Table 3.2-2 (Sheet 51) 3 rd Row	Delete row in its entirety: "Containment penetration piping; 2; PCCV R/B; B; YES; 2; I" Editorial: Correct erroneously omit
3.2-66	Table 3.2-2 (Sheet 51) 4 th Row, 1 st Column	Change: "Containment isolation valves" to "Piping and valves between and including the containment isolation valves" Editorial: Change system and component description
3.2-66	Table 3.2-2 (Sheet 51) 4 th Row, 3 rd Column	Change: "O/B" to "R/B" Editorial: Correct component information.
3.2-66	Table 3.2-2 (Sheet 51) 6 th Row, 1 st Column	Delete: "Secondary System" Editorial: Correct erroneously omit

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.2-66	Table 3.2-2 (Sheet 51) 6 th Row, 1 st Column	Add in new 7 th row below: " <u>48. Radiation Monitoring System</u> " Editorial: Correct erroneously omit (This causes the other numbers for the rest of the document to change)
3.2-66	Table 3.2-2 (Sheet 51) 7 th Row	Add in new 8 th row below: "Piping and valves between and including the containment isolation valves; 2; PCCV R/B; B; YES; 2; I" Editorial: Correct erroneously omit
3.2-66	Table 3.2-2 (Sheet 51) 9 th Row, 1 st Column	Change: " <u>48.</u> " to " <u>49.</u> " Editorial: Renumbering due to insertion of item 48
3.2-66	Table 3.2-2 (Sheet 51) 12 th Row, 1 st Column	Change: " <u>49.</u> " to " <u>50.</u> " Editorial: Renumbering due to insertion of item 48
3.2-66	Table 3.2-2 (Sheet 51) 14 th Row, 1 st Column	Change: " <u>50.</u> " to " <u>51.</u> " Editorial: Renumbering due to insertion of item 48
3.2-66	Table 3.2-2 (Sheet 51) 16 th Row, 1 st Column	Change: " <u>51.</u> " to " <u>52.</u> " Editorial: Renumbering due to insertion of item 48
3.2-67	Table 3.2-2 (Sheet 52) 2 nd Row, 1 st Column	Change: " <u>52.</u> " to " <u>53.</u> " Editorial: Renumbering due to insertion of item 48
3.2-67	Table 3.2-2 (Sheet 52) 4 th Row, 1 st Column	Change: " <u>53.</u> " to " <u>54.</u> " Editorial: Renumbering due to insertion of item 48
3.2-67	Table 3.2-2 (Sheet 52) 11 th Row, 1 st Column	Change: " <u>54.</u> " to " <u>55.</u> " Editorial: Renumbering due to insertion of item 48
3.2-67	Table 3.2-2 (Sheet 52) 13 th Row, 1 st Column	Change: " <u>55.</u> " to " <u>56.</u> " Editorial: Renumbering due to insertion of item 48
3.2-67	Table 3.2-2 (Sheet 52) 15 th Row, 1 st Column	Change: " <u>56.</u> " to " <u>57.</u> " Editorial: Renumbering due to insertion of item 48
3.2-67	Table 3.2-2 (Sheet 52) 17 th Row, 1 st Column	Change: "57. Grand Seal System (GSS)" to "58. Gland Seal System (GSS)" Editorial: Correct typographical error and Renumbering due to insertion of item 48
3.2-67	Table 3.2-2 (Sheet 52) 18 th Row, 1 st Column	Change: "Turbine grand sealing system components" to "Gland seal system components" Editorial: Correct system name

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.2-67	Table 3.2-2 (Sheet 52) 19 th Row, 1 st Column	Change: " <u>58.</u> " to " <u>59.</u> " Editorial: Renumbering due to insertion of item 48
3.2-68	Table 3.2-2 (Sheet 53) 2 nd Row, 1 st Column	Change: " <u>59.</u> " to " <u>60.</u> " Editorial: Renumbering due to insertion of item 48
3.2-68	Table 3.2-2 (Sheet 53) 7 th Row, 1 st Column	Change: " <u>60.</u> " to " <u>61.</u> " Editorial: Renumbering due to insertion of item 48
3.2-68	Table 3.2-2 (Sheet 53) 9 th Row, 1 st Column	Change: " <u>61.</u> " to " <u>62.</u> " Editorial: Renumbering due to insertion of item 48
3.2-69	Table 3.2-3 Notes	Insert after row 11: "12. Seismic category II SSCs must meet the QA requirement of 10 CFR, Appendix B. (Refer to sub-section 3.2.1.1.2)" Editorial: Correct erroneously omit
3.2-70	Table 3.2-4 4 th Row, 2 nd Column	Delete: Acronym, "CIS" Editorial: Acronym is not applicable.
3.2-70	Table 3.2-4 12 th Row, 1 st Column	Change: "Outside Building" to "Outside Building (e.g., maintenance facility, operations office)" Editorial: Clarify scope of statement
3.2-70	Table 3.2-4 Note 1.	Change: "Other non-standard plant building structures are not listed in the above table. Those not listed are not considered part of the US-APWR Nuclear Island and must be provided in the COL Application." to "Other non-standard plant building structures, such as minor NS buildings and structures in the plant yard, are not listed in the above table and are not considered part of the US-APWR Nuclear Island." Editorial: Clarify scope of statement
3.3-1	Subsection 3.3.1 1 st Paragraph, 1 st Sentence	Change: "...US-APWR seismic..." to "... US-APWR, including site-specific seismic...." Editorial: Clarify scope of statement
3.3-1	Subsection 3.3.1 1 st Paragraph, 4 th Sentence	Change: "...US-APWR seismic..." to "... US-APWR, including site-specific seismic...." Editorial: Clarify scope of statement
3.3-2	Subsection 3.3.1.2 3 rd Paragraph 1 st Sentence	Change: " K_{dt} " to " K_{zt} " Editorial: Correct subscript

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.3-2	Subsection 3.3.1.2 5 th Paragraph 1 st sentence	Change: "...US-APWR structures..." to "...US-APWR and site-specific structures..." Editorial: clarify scope of wind design as described by Subsection 3.3.1.1
3.3-3	Subsection 3.3.1.2 5 th Paragraph, 4 th Sentence	Change: "Where required by investigation, ..." to "Where required by the results of the investigation, ..." Editorial: Clarify scope of statement
3.3-3	Subsection 3.3.1.2 6 th Paragraph	Add in new paragraph below: "The COL Applicant is to provide the wind load design method and importance factor for site-specific seismic category I and seismic category II buildings and structures." Editorial: Clarifies input approach required
3.3-3	Subsection 3.3.2 1 st Paragraph 1 st sentence	Change: "...US-APWR standard plant..." to "...US-APWR standard and site-specific plant..." Editorial: clarify scope of wind design as described by Subsection 3.3.1.1
3.3-5	Subsection 3.3.2.2.2 2 nd Paragraph, 2 nd Sentence	Change: "... and the PCCV and PS/B." to "... and the PCCV." Editorial: Remove non-applicable discussion
3.3-5	Subsection 3.3.2.2.2 3 rd Paragraph, 2 nd Sentence	Change: "This case applies to the A/B, T/B, and AC/B, which are designed as vented and allowed to go negative because it is impractical to use tornado dampers at the outside air intake." to "This is the case for the A/B, T/B, and AC/B, which are designed as vented structures. Where applicable, interior walls of the A/B are designed considering tornado differential atmospheric pressure loading. The design of the T/B and AC/B are discussed further in Subsection 3.3.2.3." Editorial: Provide clarification
3.3-5	Subsection 3.3.2.2.2 3 rd Paragraph	Add new paragraph below: "The COL Applicant is to note the vented and unvented requirements of the subsection to the site-specific category I buildings and structures." Editorial: Provide consistency
3.3-6	Subsection 3.3.2.3 Prior to 1 st paragraph	Added four paragraphs to address tornado design aspects of A/B, T/B, and AC/B. Enhancement: Provides additional clarifying information on tornado design aspects for these US-APWR standard plant structures.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.3-7	Subsection 3.3.2.3 5 th Paragraph, 2 nd Sentence	Change: "Where required by investigation, structural reinforcement ..." to "Where required by the results of investigations, structural reinforcement ..." Editorial: Clarify scope of statement
3.3-7	Subsection 3.3.3 COL 3.3(1)	Change: " <i>The COL Applicant is to verify the basic wind speed requirements of Subsection 3.3.1.1 envelope the site-specific basic wind speed.</i> " to " <i>The COL Applicant is responsible for verifying the site-specific basic wind speed is enveloped by the determinations in this section.</i> " Editorial: Provided consistent COL Applicant action and wording
3.3-7	Subsection 3.3.3 COL 3.3(2)	Change: " <i>The requirements of Subsection 3.3.2.2 also apply to seismic category I structures provided by the COL Applicant. Similarly, it is the responsibility of the COL Applicant to establish the methods for qualification of tornado effects to preclude damage to safety-related SSCs.</i> " to " <i>These requirements also apply to seismic category I structures provided by the COL Applicant. Similarly, it is the responsibility of the COL Applicant to establish the methods for qualification of tornado effects to preclude damage to safety-related SSCs.</i> " Editorial: Align with Subsection 3.3.2.2.2 Text
3.3-7	Subsection 3.3.3 COL 3.3(3)	Change: " <i>Seismic category I structures provided by the COL Applicant are designed to preclude failure effects on safety-related SSCs. In addition, where the trajectory of a tornado missile could impact safety-related SSCs, seismic category I structures and components are designed according to procedures described in Subsection 3.5.3 for a spectrum of tornado missiles described in Subsection 3.5.1.4, in order to preclude effects caused by missiles on safety-related SSCs.</i> " to " <i>It is the responsibility of the COL Applicant to assure that site-specific structures and components not designed for tornado loads will not impact either the function or integrity of adjacent safety-related SSCs, or generate missiles having more severe effects than those discussed in Subsection 3.5.1.4.</i> " Editorial: Provide consistency with DCD text

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.3-7	Subsection 3.3.3 COL 3.3(3)	Add below COL 3.3(3): " <i>COL 3.3(4) The COL Applicant is to provide the wind load design method and importance factor for site-specific category I and category II buildings and structures.</i> " Editorial: Clarifies input approach required
3.3-7	Subsection 3.3.3 COL 3.3(3)	Add below COL 3.3(3): " <i>COL 3.3(5) The COL Applicant is to note the vented and unvented requirements of this subsection to the site-specific category I buildings and structures.</i> " Editorial: Provide consistency with DCD text
3.4-1	Subsection 3.4.1 1 st Paragraph, 1 st Sentence	Change: "The US-APWR is designed for maximum water levels ..." to "The US-APWR, including site-specific buildings and structures, is designed to withstand the maximum water levels ..." Editorial: Provided clarification
3.4-1	Subsection 3.4.1 1 st Paragraph, 2 nd Sentence	Change: "Combinations of these events are not ..." to "Combinations of external and internal events are not ..." Editorial: Clarify scope of statement
3.4-2	Subsection 3.4.1.1 4 th Paragraph, 4 th Bullet, 2 nd Sentence	Change: "... their safety function is assured as addressed in Section 3.11" to "... their safety function is assured, as described in Section 3.11." Editorial: Clarify statement, correct grammar, and add period
3.4-2	Subsection 3.4.1.2 1 st Paragraph, 3 rd Sentence	Change: "This is accomplished by ..." to "This compliance is accomplished by ..." Editorial: Clarify scope of statement
3.4-2	Subsection 3.4.1.2 1 st Paragraph, 4 th Sentence	Change: "Additionally, the design reflects the following:" to "Additionally, the design reflects the following considerations:" Editorial: Clarify scope of statement
3.4-2	Subsection 3.4.1.2 2 nd Paragraph, 4 th Sentence	Change: "This is accomplished by channeling rainfall expeditiously ..." to "This design channels rainfall expeditiously ..." Editorial: Clarify statement and correct grammar

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.4-3	Subsection 3.4.1.2 2 nd Paragraph, 7 th Sentence	Delete sentence in its entirety: "The site-specific design of the plant grading and drainage is part of the COL scope of design." Editorial: Provided consistent COL Applicant action and wording
3.4-3	Subsection 3.4.1.2 3 rd Paragraph	Change: "Based on ... (the COL Applicant is to demonstrate the DBFL is applicable to their specific site) the safety-related... (Reference 3.4-3). Site specific engineered features are to be addressed by the COL Applicant." to "The COL Applicant is to address the site-specific design of plant grading and drainage. Based on... (refer to Subsection3.4.1.4 for discussion on DBFL) the safety-related... (Reference 3.4-3)." Editorial: Provided consistent COL Applicant action and wording
3.4-3	Subsection 3.4.1.2 3 rd Paragraph	Add new paragraph below 3 rd Paragraph: "The COL Applicant is to identify and design, if necessary, any site-specific flood protection measures such as levees, seawalls, floodwalls, site bulkheads, revetments, or breakwaters per the guidance of RG 1.102 (Reference 3.4-3)."
3.4-3	Subsection 3.4.1.2 5 th Paragraph, 5 th Sentence	Change: "This is addressed in the design criteria ..." to "This loading is addressed in the design criteria ..." Editorial: Clarify statement and correct grammar
3.4-3	Subsection 3.4.1.2 5 th Paragraph, 6 th Sentence	Delete sentence in its entirety: "Site specific engineered features are to be addressed by the COL Applicant." Editorial: Provided consistent COL Applicant action and wording
3.4-3	Subsection 3.4.1.2 6 th Paragraph, 4 th and 5 th Sentences	Delete: "Additional protection is provided using a waterproofing system applied to below-grade surfaces. The waterproofing system primarily consists of a waterproofing membrane applied to the below-grade building exterior surfaces and/or the use of a concrete design mix, which has reduced porosity, for exterior walls and foundations." Editorial: Addressed in next paragraph

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.4-3	Subsection 3.4.1.2 7 th Paragraph	Change: "These requirements are addressed in the design criteria presented in Section 3.8. Waterproofing is a site specific engineered feature that is to be addressed by the COL Applicant." to "The COL Applicant is to address any additional measures below grade to protect against exterior flooding and the intrusion of ground water into seismic category I buildings and structures." Editorial: Provided consistent COL applicant action and wording
3.4-4	Subsection 3.4.1.2 9 th Paragraph, 3 rd and 4 th Sentences	Change: "However, the site DBFL does not result from failure of such sources. External plant features are to be addressed by the COL Applicant. Flood protection from..." to "However, the site DBFL does not result from failure of such sources. Flood protection from..." Editorial: Remove superfluous sentence
3.4-4	Subsection 3.4.1.2 9 th Paragraph, 10 th Sentence	Change: "The flood design, with regard to site-specific yard piping such as cooling water system piping, is to be addressed by the COL Applicant." to Site-specific flooding hazards from engineered features, such as from service water or circulating water piping, is to be addressed by the COL Applicant." Editorial: Provided consistent COL Applicant action and wording
3.4-5	Subsection 3.4.1.3 7 th Paragraph, 1 st Sentence	Change: "Pump mechanical seals failures which are of concern ..." to "Pump mechanical seal failures of concern ..." Editorial: Correct grammatical error
3.4-5	Subsection 3.4.1.3 7 th Paragraph, 3 rd Sentence	Change: "... limiting the effects of pump seal through early detection ..." to "... limiting the effects of pump seal failure through early detection ..." Editorial: Clarify scope of statement
3.4-7	Subsection 3.4.1.4 1 st Paragraph, 1 st Sentence	Change: "The following steps outline the flood evaluation process." to "The following steps outline the external flood evaluation process." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.4-7	Subsection 3.4.1.4 4 th Paragraph 2 nd Sentence	Change: "The COL Applicant is to identify and address applicable site conditions where static flood level exceed the DBFL and/or generate dynamic flooding forces." to "The COL Applicant is to demonstrate the DBFL bounds their specific site, or is to identify and address applicable site conditions where static flood level exceed the DBFL and/or generate dynamic flooding forces." Editorial: Provided consistent COL Applicant action and wording
3.4-7	Subsection 3.4.1.5 1 st Paragraph, 1 st Sentence	Change: "The following steps outline the flood evaluation process:" to "The following steps outline the internal flood evaluation process." Editorial: Clarify scope of statement
3.4-8	Subsection 3.4.1.5.1 2 nd Paragraph, 1 st Sentence	Change: "It is further partitioned by ..." to "The PCCV is further partitioned by ..." Editorial: Clarify scope of statement
3.4-8	Subsection 3.4.1.5.1 4 th Paragraph, 3 rd Sentence	Change: "... water will conversely flow from each ..." to "... water will flow from each ..." Editorial: Remove superfluous word
3.4-11	Subsection 3.4.1.5.2.1 3 rd Paragraph, 1 st Bullet	Change: "The volume control tank (VCT) 670 ft ³ , the seal water heat exchanger (21 ft ³), the CVCS and the SFPCS piping (1,060 ft ³) are non-seismic components in the RCA of the R/B. The VCT is installed in a compartment capable of holding the VCT volume and, therefore, the volume of the VCT is excluded from the amount of flood water. The total amount of water contained by the seal water heat exchanger, the CVCS, and the SFPCS piping collectively is 1,081 ft ³ ." to "Most of equipments and piping contained water in the RCA of the R/B are excluded from flooding source because these components are designed as seismic category I or II. However, it is assumed that there is other miscellaneous piping designed as non-seismic, and the amount of water contained by this piping is considered as flood water. The amount of water contained by other miscellaneous piping is 1,060 ft ³ ." Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.4-11	Subsection 3.4.1.5.2.1 "Elevation -26 ft, 4 in." 3 rd Paragraph, 2 nd Bullet, 3 rd Paragraph, 3 rd Sentence	Change: "... when the valves have been actuated open reactor make-up water system and that they remain open until actuated closed by plant operations." To "... when the valves of the reactor make-up water system have been actuated open and remain open until actuated closed by plant personnel." Editorial: Clarify scope and correct grammatical error
3.4-12	Subsection 3.4.1.5.2.1 "Elevation -26 ft, 4 in." 4 th Paragraph 2 nd Sentence	Change: "...at 5,091 ft ³ ." to "...at 5,070 ft ³ ." Technical: Reflect design enhancement
3.4-12	Subsection 3.4.1.5.2.1 "Elevation -26 ft, 4 in." 6 ^h Paragraph 2 nd Item	Change: "East side: 1.50 ft above..." to "East side: 1.49 ft above..." Technical: Reflect design enhancement
3.4-13	Subsection 3.4.1.5.2.1 "Elevation -3 ft, 7 in." 4 th Paragraph, 2 nd Bullet	Change: "HELB event is not considered because the postulated pipe break of the CVCS charging piping at the charging pump discharge nozzle occurs on the lower floor level." to "HELB event is not a concern, because the postulated pipe break at the discharge nozzle of the CVCS charging pump occurs at a location on a lower floor level." Editorial: Clarify scope of statement
3.4-13	Subsection 3.4.1.5.2.1 "Elevation -3 ft, 7 in." 5 th Paragraph	Change: "...is 5,091 ft ³ in both..." to "...is 5,070 ft ³ in both..." Technical: Reflect design enhancement
3.4-13	Subsection 3.4.1.5.2.1 "Elevation 25 ft, 3 in." 2 nd Bullet	Change: "... is not considered because the postulated pipe break of the CVCS charging piping at the charging pump discharge nozzle occurs on the lower floor level." to "... is not a concern, because the postulated pipe break at the discharge nozzle of the CVCS charging pump occurs at a location on a lower floor level." Editorial: Clarify statement and correct grammar.
3.4-13	Subsection 3.4.1.5.2.1 "Elevation 25 ft, 3 in." 3 rd Paragraph, 2 nd Sentence	Change: "...is 5,091 ft ³ in both..." to "...is 5,070 ft ³ in both..." Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.4-14	Subsection 3.4.1.5.2.1 "Elevation 50 ft, 2 in." 2 nd Bullet	Change: "... is not considered because the postulated pipe break of the CVCS charging piping at the charging pump discharge nozzle occurs on the lower floor level." to "... is not a concern, because the postulated pipe break at the discharge nozzle of the CVCS charging pump occurs at a location on a lower floor level." Editorial: Clarify statement and correct grammar.
3.4-14	Subsection 3.4.1.5.2.1 "Elevation 50 ft, 2 in." 3 rd Paragraph	Change: "...is 5,091 ft ³ in both..." to "...is 5,070 ft ³ in both..." Technical: Reflect design enhancement
3.4-14	Subsection 3.4.1.5.2.1 "Elevation 50 ft, 2 in." 5 th Paragraph 2 nd Item	Change: "...area, 0.77 ft above..." to "...area, 0.76 ft above..." Technical: Reflect design enhancement
3.4-15	Subsection 3.4.1.5.2.1 "Elevation 76 ft, 5 in." 2 nd Bullet	Change: "... is not considered because the postulated pipe break of the CVCS charging piping at the charging pump discharge nozzle occurs on the lower floor level." To "... is not a concern, because the postulated pipe break at the discharge nozzle of the CVCS charging pump occurs at a location on a lower floor level." Editorial: Clarify statement and correct grammar.
3.4-15	Subsection 3.4.1.5.2.1 "Elevation 76 ft, 5 in." 5 th Paragraph	Change: "...is 5,091 ft ³ in both..." to "...is 5,070 ft ³ in both..." Technical: Reflect design enhancement
3.4-15	Subsection 3.4.1.5.2.1 "Elevation 76 ft, 5 in." 7 th Paragraph, 2 nd Item	Change: "...area, 1.00 ft above..." to "...area, 0.99 ft above..." Technical: Reflect design enhancement
3.4-15	Subsection 3.4.1.5.2.1 "Elevation 76 ft, 5 in." 8 th Paragraph	Change: "...heights equal to or above..." to "...heights above..." Editorial: Remove superfluous words
3.4-16	Subsection 3.4.1.5.2.2 5 th Paragraph, 1 st Sentence	Change: "In exception to the above, the drains from ..." to "The drains from ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.4-17	Subsection 3.4.1.5.2.2 "Elevation -26 ft, 4 in." 2 nd Bullet	Change: "... is not considered because there is no piping breaks which should be assumed in the subject area." To "... is not a concern, because there are no piping breaks, which are assumed to occur in the subject area." Editorial: Clarify statement and correct grammar.
3.4-16	Subsection 3.4.1.5.2.2 "Elevation -26 ft, 4 in." 10 th Paragraph	Change: "...heights equal to or above..." to "...heights above..." Editorial: Remove superfluous words
3.4-18	Subsection 3.4.1.5.2.2 "Elevation 3 ft, 7 in." 2 nd Bullet	Change: "... is not considered because there is no piping breaks which should be assumed in the subject area." To "... is not a concern, because there are no piping breaks, which are assumed to occur in the subject area." Editorial: Clarify statement and correct grammar.
3.4-19	Subsection 3.4.1.5.2.2 "Elevation 25 ft, 3 in." 2 nd Bullet	Change: "... is not considered because there is no piping breaks which should be assumed in the subject area." To "... is not a concern, because there are no piping breaks, which are assumed to occur in the subject area." Editorial: Clarify statement and correct grammar.
3.4-19	Subsection 3.4.1.5.2.2 "Elevation 50 ft, 2 in." 2 nd Bullet	Change: "... is not considered because there is no piping breaks which should be assumed in the subject area." To "... is not a concern, because there are no piping breaks, which are assumed to occur in the subject area." Editorial: Clarify statement and correct grammar.
3.4-20	Subsection 3.4.1.5.2.2 "Elevation 76 ft, 5 in." 5 th Paragraph	Change: "...heights equal to or above..." to "...heights above..." Editorial: Remove superfluous words
3.4-21	Subsection 3.4.1.5.2.2 "Elevation 76 ft, 5 in." 5 th Bullet	Change: "... is not considered because water does not flow out from the MS/FW piping area, as evaluation of above mentioned." To "... is not a concern, because maximum flood level within the MS/FW piping area is well below the door elevation as described above." Editorial: Clarify statement and correct grammar.
3.4-21	Subsection 3.4.2 1 st Paragraph, 2 nd Sentence	Change: "Section 3.8 specifies the applicable codes, standards, and specifications used in the design of seismic category I structures along with the loads and load combinations." To "Section 3.8 specifies the applicable codes, standards, and specifications used in the design of seismic category I structures." Editorial: Remove superfluous information.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.4-21	Subsection 3.4.2 1 st Paragraph, 4 th Sentence	<p>Change: "Section 3.8 also provides the design and analysis procedures used to transform the static and dynamic effects of the DBFL and groundwater levels into effective loads and assure seismic category I structures meet the applicable acceptance criteria." To "Section 3.8 also provides the design and analysis procedures used to transform the static and dynamic effects of the DBFL and ground water levels applied to seismic category I structures to assure their design meet the applicable acceptance criteria."</p> <p>Editorial: Clarify that design meets acceptance criteria, not just the loads.</p>
3.4-21	Subsection 3.4.2 1 st Paragraph	<p>Add in new paragraph below: "The COL Applicant is to identify any site-specific physical models used to predict prototype performance of hydraulic structures and systems involving an unusual design or configuration, or for a design or operating bases involving thermal and erosion problems."</p> <p>Technical: Ensure all regulatory requirements are addressed</p>
3.4-22	Subsection 3.4.3 COL 3.4(2)	<p>Change: "<i>The COL Applicant is to demonstrate the DBFL is applicable to their specific site. The COL Applicant is to identify and address applicable site conditions where static flood level exceed the DBFL and/or generate dynamic flooding forces.</i>" to "<i>The COL Applicant is to demonstrate the DBFL bounds their specific site, or is to identify and address applicable site conditions where static flood level exceed the DBFL and/or generate dynamic flooding forces.</i>"</p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.4-22	Subsection 3.4.3 COL 3.4(3)	<p>Change: "<i>The COL Applicant is to address site specific engineered features. Site- specific engineered features includes plant buildings and systems such as the RWSAT, the primary make-up water tank, the demineralized water storage tank, the fire water storage tanks, the yard piping, etc.</i>" to "<i>Site-specific flooding hazards from engineered features, such as from cooling water system piping, is to be addressed by the COL Applicant.</i>"</p> <p>Editorial: Provided consistent COL Applicant action and wording</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.4-22	Subsection 3.4.3 COL 3.4(4)	<p>Change: <i>“The COL Applicant is to address waterproofing as a site-specific engineered feature. Waterproofing encompasses concrete mix design, water stops, and waterproofing membrane/barrier.” to “The COL Applicant is to address any additional measures below grade to protect against exterior flooding and the intrusion of ground water into seismic category I buildings and structures.”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.4-22	Subsection 3.4.3 COL 3.4(5)	<p>Change: <i>“The COL Applicant is to determine if the interface requirements given in Chapter 2, Section 2.4, envelopes the site-specific flooding hazards. Specific COL information is to be verified as follows:</i></p> <p><i>The site-specific maximum water level caused by the PMF and all other external sources of flooding is to be determined and/or verified by the COL Applicant in accordance with the guidelines of RG 1.59 (Reference 3.4-5). The COL Applicant may need to employ site-specific flood protection measures such as levees, seawalls, floodwalls, site bulkheads, revetments, or breakwaters per the guidelines of RG 1.102 (Reference 3.4-3), or dewatering system if the plant is not built above the DBFL.” to “The COL Applicant is to identify and design, if necessary, any site-specific flood protection measures such as levees, seawalls, floodwalls, site bulkheads, revetments, or breakwaters per the guidelines of RG 1.102 (Reference 3.4-3), or dewatering system if the plant is not built above the DBFL.”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.4-22	Subsection 3.4.3 COL 3.4(5)	<p>Add below: <i>“COL 3.4(6) The COL Applicant is to identify any site-specific physical models used to predict prototype performance of hydraulic structures and systems.”</i></p> <p>Technical: Ensure all regulatory requirements are addressed</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.5-1	Section 3.5 2 nd Paragraph	Change: "In accordance with GDC 2 and GDC 4 of 10 CFR 50, the safety-related US-APWR provides the capability..." to "In accordance with GDC 2 and GDC 4 of 10 CFR 50, the safety-related areas of the US APWR contain SSCs that provide the capability..." Editorial: Clarify scope of statement
3.5-1	Section 3.5 3 rd Paragraph, 4 th Bullet	Add 2 new bullets below: " Site proximity missiles (Except aircraft) Aircraft hazards" Editorial: Added information from previous 4 th Paragraph
3.5-1	Section 3.5 4 th Paragraph	Delete in its entirety: "Other site proximity missiles, including the risk of aircraft hazards, are to be addressed by the COL Applicant as discussed in Subsections 3.5.1.5 and 3.5.1.6." Editorial: Provided consistent COL Applicant action and wording
3.5-2	Section 3.5 5 th Paragraph, 7 th Bullet	Change: "A postulated missile, except for tornado, does not occur ..." to "A postulated missile, except for tornado events, does not occur ..." Editorial: Clarify scope of statement
3.5-4	Subsection 3.5.1.1.1 1 st Paragraph, 4 th Bullet, 2 nd Sentence	Change: "Weld connections by design have greater design strength ..." to "Weld connections are designed to have equal or greater design strength ..." Editorial: Clarify scope of statement
3.5-5	Subsection 3.5.1.1.2.1 1 st Paragraph, Item 2. Sub-item a., 1 st Paragraph, 1 st Sentence	Change: "Rotating equipment of motor-driven ..." to "The rotating element of motor-driven ..." Editorial: Clarify scope of statement
3.5-5	Subsection 3.5.1.1.2.1 1 st Paragraph, Item 2. Sub-item a., 2 nd Paragraph, 1 st Sentence	Change: "Missiles are not postulated in the turbine-driven pump because of ..." to "Missiles are not postulated in turbine-driven pumps because of ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.5-5	Subsection 3.5.1.1.2.1 1 st Paragraph, Item 3. 1 st Paragraph	<p>Change: “The explosion is not deemed a credible source of missile generation as follows: The equipment containing hydrogen is designed to prevent hydrogen from leaking, or to prevent hydrogen from remaining inside by concentration monitoring and ventilation. The battery compartments are ventilated to prevent concentration of hydrogen. The hydrogen supply system and gas bottles are installed in a compartment independent of structures important to safety, and ventilation is provided to prevent concentration of hydrogen.” to “A hydrogen explosion is not deemed a credible source of missile generation because equipment containing hydrogen is designed to prevent hydrogen from leaking, or to prevent hydrogen from remaining inside by concentration monitoring and ventilation.</p> <p>Battery compartments are ventilated to prevent the concentration of hydrogen. The hydrogen supply system and gas bottles are installed in a compartment independent of safety-related structures, and ventilation is provided to prevent the concentration of hydrogen.”</p> <p>Editorial: Clarify scope of statements, and separate topics into 2 paragraphs</p>
3.5-6	Subsection 3.5.1.1.2.1 1 st Paragraph, Item 4. Sub item d.	<p>Replace paragraph with the following: “The COL Applicant is to prepare plant procedures that specify equipment required for maintenance or undergoing maintenance is to be removed from containment prior to operation, moved to a location where it is not a potential hazard to SSCs important to safety, or seismically restrained to prevent it from becoming a missile.”</p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.5-6 & 3.5-7	Subsection 3.5.1.1.2.3 1 st Paragraph, Item 1. 2 nd Sentence	<p>Change: “Such piping is required to be separated ... by heavy concrete walls or locating SSCs outside the zones ...” to “Such piping is separated ... by heavy concrete walls or SSCs are located outside the zones ...”</p> <p>Editorial: Clarify scope of statement</p>
3.5-7	Subsection 3.5.1.1.2.3 1 st Paragraph, Item 2. 1 st Sentence	<p>Change: “... equipment located outside PCCV can be ... US-APWR design they do not pose a risk ...” to “... equipment located outside the PCCV can be ... US-APWR design, such equipment does not pose a risk ...”</p> <p>Editorial: Clarify scope of statement and correct grammatical error</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.5-7	Subsection 3.5.1.2 1 st Paragraph	Added new 2 nd Sentence: "Safety-related SSCs are identified in Section 3.2 and Section 3.11." Editorial: Clarify scope of statement
3.5-9	Subsection 3.5.1.3.1 2 nd Paragraph	Add new paragraph below: "The COL Applicant is responsible to assess the orientation of the T/G of this and other unit(s) at multi-unit site for the probability of missile generation using the evaluation of Subsection 3.5.1.3.2." Editorial: Clarifies requirement needed for evaluation
3.5-9	Subsection 3.5.1.3.2 1 st Paragraph, 1 st Sentence	Change: "Protection against the damage of safety-related SSCs ... and fail-safe design control system ..." to "Protection against damage from turbine missiles to safety-related SSCs ... and fail-safe turbine design control system ..." Editorial: Clarify scope of statement
3.5-10	Subsection 3.5.1.3.2 3 rd Paragraph, 5 th Sentence	Change: "... Technical Report, MUAP-07028-NP, ..." to "... Technical Report, MUAP-070028-NP, ..." Editorial: Correct document number
3.5-11	Subsection 3.5.1.5 1 st Paragraph, 1 st Sentence	Change: "Externally initiated missiles included for the design certification of the US-APWR are based on ..." to "Externally initiated missiles considered for the US-APWR standard design are based on ..." Editorial: Clarify scope of statement
3.5-11	Subsection 3.5.1.5 1 st Paragraph, 2 nd and 3 rd Sentences	Change: "The COL Applicant should identify the RG followed, and explain and justify any deviations from this guidance and for any alternative methods that are used. The COL Applicant should also describe the" to "The RG followed is identified, and any deviations from this guidance or any alternative methods that are used are explained or justified. The information also describes the..." Editorial: Provided consistent COL Applicant action and wording
3.5-11	Subsection 3.5.2 1 st Paragraph, 2 nd Sentence	Change: "...related R/B." to "...related R/B and PS/B." Editorial: Clarify scope of statement
3.5-11	Subsection 3.5.2 1 st Paragraph, 4 th Sentence	Change: "... for the R/B are..." to "... for the R/B and PS/B are..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.5-11	Subsection 3.5.2 2 nd Paragraph, 2 nd Sentence	Change: "The COL Applicant must evaluate site-specific hazards for external events that may produce missiles more energetic than tornado missiles, and design all seismic category I and II structures to these loads." to "The COL Applicant is responsible to evaluate site-specific hazards for external events that may produce missiles more energetic than tornado missiles, and assure that the design of seismic category I and II structures meet these loads." Editorial: Provided consistent COL Applicant action and wording
3.5-12	Subsection 3.5.3.1 1 st Paragraph, 1 st & 2 nd Sentences	Change: "Refer to the following subsections for the design of structures to withstand and absorb missile impact loads. These formulas are used to predict ..." to "The following subsections address the design of structures to withstand and absorb missile impact loads. Formulas are provided to predict ..." Editorial: Clarify scope of statement
3.5-12	Subsection 3.5.3.1.1 1 st Paragraph, 1 st & 2 nd Sentences	Change: "... (NDRC) provides the modified NDRC formula in "A Review of Procedures ... (Reference 3.5-9). These equations are used to determine the required barrier thickness." to "... (NDRC) provides "A Review of Procedures ... (Reference 3.5-9)." Editorial: Remove superfluous words and sentence
3.5-14	Subsection 3.5.3.1.3 1 st Paragraph, 3 rd Sentence	Change: "... thicknesses may be limited in thickness and residual velocity to be absorbed by concrete ..." to "... thicknesses may be limited and the residual velocity of the missiles is to be absorbed by concrete ..." Editorial: Clarify scope of statement
3.5-14	Subsection 3.5.3.2 2 nd Paragraph, 3 rd Sentence	Change: "... for other missile sources and applied as (Y_r), (Y_j) and (Y_m) (as defined in Subsection 3.8.4), ..." to "... for other missile sources (as defined in Subsection 3.8.4), ..."
3.5-14	Subsection 3.5.3.2 3 rd Paragraph, 1 st Sentence	Change: "Overall effects of missile impact are designed for flexural, shear, and buckling effects on structural members using the equivalent static load obtained from the evaluation of structural response." to "The flexural, shear, and buckling effects on structural members are determined using the equivalent static load obtained from the evaluation of missile impact on structural response."

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.5-15	Subsection 3.5.3.2 4 th Paragraph 3 rd Item	Change: "...than 0.1 $f_c A_g$ or one-third..." to "...than 0.1 $f_c A_g$ (where A_g is the gross area of section, in. ²) or one-third..." Editorial: Added definition for A_g
3.5-15	Subsection 3.5.4 COL 3.5(1)	Change: " <i>Plant procedures are to specify that equipment...</i> " to " <i>The COL Applicant is to prepare plant procedures that specify equipment...</i> " Editorial: Provided consistent COL Applicant action and wording
3.5-15	Subsection 3.5.4 COL 3.5(2)	Changed to " <i>The COL Applicant is to commit to actions to maintain P_1 within this acceptable limit as provided by turbine and rotor design features, material specifications and recommended inspections during preservice and inservice periods based on Technical Report, MUAP-070028-NP, Probability of Missile Generation From Low Pressure Turbines.</i> " Editorial: Provided consistent COL Applicant action and wording
3.5-15	Subsection 3.5.4 COL 3.5(3)	Change: " <i>Establish the presence of potential hazards and the effects of potential accidents in the vicinity of the site, as described in DCD, Section 2.2.</i> " to " <i>As described in DCD, Section 2.2, the COL Applicant is to establish the presence of potential hazards, except aircraft, which is reviewed in Subsection 3.5.1.6, and the effects of potential accidents in the vicinity of the site.</i> " Editorial: Provided consistent COL Applicant action and wording
3.5-15	Subsection 3.5.4 COL 3.5(4)	Change: " <i>Verify the site interface parameters with respect to aircraft crashes and air transportation accidents as described in DCD, Section 2.2 and RG 1.206, Section C.1.3.5.1.6.</i> " to " <i>It is the responsibility of the COL Applicant to verify the site interface parameters with respect to aircraft crashes and air transportation accidents as described in Section 2.2.</i> " Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.5-15	Subsection 3.5.4 COL 3.5(5)	Change: “ <i>Additional analyses may be required to evaluate other potential site-specific missiles.</i> ” to “ <i>The COL Applicant is responsible to evaluate site-specific hazards for external events that may produce missiles more energetic than tornado missiles, and assure that the design of seismic category I and II structures meet these loads.</i> ” Editorial: Provided consistent COL Applicant action and wording
3.5-15	Subsection 3.5.4 COL 3.5(5)	Add below: “ <i>COL 3.5(6) The COL Applicant is responsible to assess the orientation of the T/G of this and other unit(s) at multi-unit site for the probability of missile generation using the evaluation of Subsection 3.5.1.3.2.</i> ” Editorial: Clarifies requirement needed for evaluation
3.5-10	Subsection 3.5.5 Reference 3.5-17	Change: “... MUAP-07028-NP ...” to “... MUAP-070028-NP ...” Editorial: Correct document number
3.6-1	Section 3.6 3 rd Paragraph, 1 st Sentence	Change: “In the event of a pipe failure within the plant, ... adverse effects of postulated piping failure do not impact ...” to “In the event of a postulated pipe failure within the plant, ... adverse effects of the failure do not impact ...” Editorial: Clarify scope of statement
3.6-1	Section 3.6 6 th Paragraph, 1 st Sentence	Change: “Subsection 3.6.3 is dedicated to describe application of LBB methodology, ...” to “Subsection 3.6.3 describes the application of LBB methodology, ...” Editorial: Clarify scope of statement
3.6-1	Subsection 3.6.1 1 st Paragraph, 1 st Sentence	Change: “... the plant is designed for protection against ... safety-related systems to restore the plant in the safe-shutdown condition and maintain in that condition ...” to “... the plant is designed to provide protection against ... safety-related systems to bring the plant to a safe-shutdown condition and maintain it in that condition ...” Editorial: Clarify scope of statement and correct grammatical errors
3.6-1	Subsection 3.6.1 2 nd Paragraph, 1 st Sentence	Change: “Maintaining the functions: ...” to “Required plant conditions following a pipe break: ...” Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-2	Subsection 3.6.1 2 nd Paragraph, 1 st Bullet	Change: "Engineered safety features and related measures required in cooling the core do not impair their functions." to "The functions of the engineered safety features and related measures required in cooling the core are not impaired." Editorial: Clarify scope of statement
3.6-2	Subsection 3.6.1 2 nd Paragraph, 4 th Bullet	Change: "Assure radiological doses of a postulated piping failure remain below the limits of 10 CFR 100 (Reference 3.6-7)." to "Radiological doses resulting from a postulated piping failure remain below the limits of 10 CFR 100 (Reference 3.6-7)." Editorial: Clarify scope of statement
3.6-2	Footnote 1	Change: "System is designed to be equipped ..." to "The reactor shutdown system is designed to be equipped ..." Editorial: Clarify scope of statement
3.6-3	Subsection 3.6.1.1 1 st Paragraph, Item A., 3 rd Paragraph, 1 st Sentence	Change: "... high-energy piping for only short operational period in performing their system function but, for the major operational period, ..." to "... high-energy piping for only short periods in performing their system function but, for the major portion of their operational period, ..." Editorial: Clarify scope of statement
3.6-3	Subsection 3.6.1.1 1 st Paragraph, Item B., Sub item 1. 1 st Sentence	Change: "Piping sections that are operating at a pressure ... is assumed same as the one associated with during normal full power operation." to "For piping sections that are operating at a pressure ... is assumed to be the one associated with normal full power operation." Editorial: Clarify scope of statement
3.6-4	Subsection 3.6.1.1 1 st Paragraph, Item I., 2 nd Sentence	Change: "... postulated failure and its direct consequences are taken such as unit trip and loss of offsite power, and of the assumed ..." to "... postulated failure and its direct consequences, such as unit trip and loss of offsite power, are assumed together with an assumed ..." Editorial: Clarify scope of statement
3.6-4	Subsection 3.6.1.1 1 st Paragraph, Item J., 1 st Paragraph, 1 st Sentence	Change: "... postulated pipe break occurs in the plane ..." to "... postulated pipe break is assumed to occur in the plane ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-5	Subsection 3.6.1.1 1 st Paragraph, Item L., 1 st Item, 1 st Sentence	Change: "...Subsection 3.6.2.2." to "...Subsection 3.6.2.3." Editorial: Correct typographical error
3.6-6	Subsection 3.6.1.2.2.1 1 st Paragraph, 2 nd Sentence	Change: "This basic means of deliberate separation protects ..." to "Deliberate separation protects ..." Editorial: Clarify scope of statement
3.6-6	Subsection 3.6.1.2.2.1 2 nd Paragraph, 1 st Bullet	Change: "Wherever practical, remotely locate safety-related systems from high-energy piping" to "Wherever practical, locate safety-related systems away from high-energy piping" Editorial: Clarify scope of statement
3.6-7	Subsection 3.6.1.2.3.1 1 st Paragraph 2 nd Sentence	Change: "...postulated pressurization are..." to "...postulated pipe breaks are..." Editorial: Clarify scope of statement
3.6-8	Subsection 3.6.1.2.3.2 3 rd Paragraph, 3 rd Sentence	Change: "... by any of the effects of this postulated pipe break." to "... by any of the effects of a postulated break of this piping." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)</p>	<p align="center">Description of Change</p>
<p>3.6-8</p>	<p>Subsection 3.6.1.2.3.3 1st Paragraph</p>	<p>Add new subsection below: “3.6.1.3 Postulated Failures Associated with Site-Specific Piping</p> <p>The COL Applicant is to identify the site-specific systems or components that are safety-related or required for safe shutdown that are located near high-energy or moderate-energy piping systems, and are susceptible to the consequences of these piping failures. The COL Applicant is to provide a list of site-specific high-energy and moderate-energy piping systems, which includes a description of the layout of all piping systems where physical arrangement of the piping systems provides the required protection, the design basis of structures and compartments used to protect nearby essential systems or components, or the arrangements to assure the operability of safety-related features where neither separation nor protective enclosures are practical. Additionally, the COL Applicant is to provide the failure modes and effect analyses that verifies the consequences of failures in site-specific high-energy and moderate-energy piping does not affect the ability to safely shut down the plant.”</p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
<p>3.6-8</p>	<p>Subsection 3.6.2 1st Paragraph 1st Sentence</p>	<p>Change: “...at the break or crack location;” to “...at the break location;”</p> <p>Editorial: Clarify scope of statement</p>
<p>3.6-9</p>	<p>Subsection 3.6.2.1 1st Paragraph</p>	<p>Change: “The following sections establish the criteria for the locations and configuration of the postulated breaks and cracks, except for piping that satisfies the requirements for LBB as described in Subsection 3.6.3.” to “The following sections establish the criteria used for selecting the locations and configuration of the postulated breaks and cracks, except for piping that satisfies the requirements for LBB described in Subsection 3.6.3.”</p> <p>Editorial: Clarify scope of statement</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-9	Subsection 3.6.2.1 1 st Paragraph	Add new paragraph after existing 1 st paragraph: “The COL Applicant is to implement the criteria of the following subsections for defining break and crack locations and configurations, and the locations and configurations of design basis pipe break and crack locations and configurations for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to identify the postulated rupture orientation of each postulated break location for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to implement the appropriate methods to assure that as-built configuration of site-specific high-energy and moderate-energy piping systems is consistent with the design intent and provide as-built drawings showing component locations and support locations and types that confirms this consistency.” Editorial: Provided consistent COL Applicant action and wording
3.6-9	Subsection 3.6.2.1.1.1 2 nd Paragraph, 2 nd Item	Change: “...Subsection 3.6.2.1.” to “...Subsection 3.6.2.1.1.2.” Editorial: Editorial: Correct typographical error
3.6-10	Subsection 3.6.2.1.1.1 2 nd Paragraph, 5 th Item 2 nd Sentence	Change: “...Subsection 3.6.2.1.” to “...Subsection 3.6.2.1.1.2.” Editorial: Correct typographical error
3.6-13	Subsection 3.6.2.1.2.2 2 nd Paragraph	Delete: “Leakage cracks are not postulated in the following piping system.” Remove bullet to maintain as 2 nd paragraph. Editorial: Superfluous statement
3.6-13	Subsection 3.6.2.1.3.1 1 st Paragraph	Change: “...Subsection 3.6.2.1.” to “...Subsection 3.6.2.1.1.2.” Editorial: Correct typographical error
3.6-13	Subsection 3.6.2.1.3.1 2 nd Paragraph	Change: “Instrument lines 1 inch and less nominal pipe or tubing size that is designed in accordance with RG 1.11 (Reference 3.6-13).” to “No breaks are postulated in piping having a nominal diameter less than 1 inch, including instrument lines that are designed in accordance with RG 1.11 (Reference 3.6-13).” Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-13	Subsection 3.6.2.1.3.1 3 rd Paragraph	Change: "...in Subsection 3.6.2.1 and... (Subsection 3.6.2.1) is..." to "...in Subsection 3.6.2.1.1.2 and... (Subsection 3.6.2.1.3.2) is..." Editorial: Correct typographical error
3.6-13	Subsection 3.6.2.1.3.1 4 th Paragraph	Delete 4 th Paragraph: "Without the benefit of stress calculations, break locations are postulated at each fitting, valve, or welded attachments." Editorial:
3.6-13	Subsection 3.6.2.1.3.2 1 st Paragraph	Change: "...Subsection 3.6.2.1." to "...Subsection 3.6.2.1.3.1." Editorial: Correct typographical error
3.6-13	Subsection 3.6.2.1.3.2 2 nd Paragraph	Change: "...in Subsection 3.6.2.1 and... (Subsection 3.6.2.1) is..." to "...in Subsection 3.6.2.1.1.2 and... (Subsection 3.6.2.1.3.1) is..." Editorial: Correct typographical error
3.6-14	Subsection 3.6.2.1.3.3 1 st Paragraph, 1 st Sentence	Change; "...in Subsection 3.6.2.1." to "...in Subsection 3.6.2.1.1.3." Editorial: Correct typographical error
3.6-14	Subsection 3.6.2.1.3.3 1 st Paragraph, 2 nd Sentence	Change: "... Subsection 3.6.2.1, except exempted in Subsection 3.6.2.1" to "... Subsection 3.6.2.1.2.2, except where excluded by the criterion in Subsection 3.6.2.1.2.2." Editorial: Clarify scope of statement
3.6-15	Subsection 3.6.2.3 4 th Paragraph	Change: "...in Subsection 3.6.2.3." to "...in Subsection 3.6.2.3.1." Editorial: Correct typographical error
3.6-15	Subsection 3.6.2.3.1 2 nd Paragraph, Part (a)	Change: " $(0.75 \geq h^* \geq 1.0)$ " to " $(0.75 \leq h^* \leq 1.0)$ " Editorial: Correct inverted algebraic terms
3.6-16	Subsection 3.6.2.3.1 4 th Paragraph, 1 st Sentence	Change: "Above is a conservative approach for calculating the thrust factor." to "The above approach is a conservative method for calculating the thrust factor." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-17	Subsection 3.6.2.3.2 6 th Paragraph, 1 st Sentence	Change: "The RCL is modeled similar to the blowdown analysis for the purpose computing forcing functions." to "The RCL is modeled similarly to the model used in blowdown analysis for the purpose of computing forcing functions." Editorial: Clarify scope of statement
3.6-17	Subsection 3.6.2.4 1 st Paragraph, 1 st Sentence	Change: "... fluid from a ruptured pipe is used in the design of dynamic effect of pipe break." to "... fluid from a ruptured pipe are used in the analyses of dynamic effects of pipe breaks." Editorial: Clarify scope of statement
3.6-17	Subsection 3.6.2.4.1 2 nd Paragraph, 1 st Sentence	Change: "This loading is ..." to "Jet impingement loading is ..." Editorial: Clarify scope of statement
3.6-18	Subsection 3.6.2.4.2.2 1 st Paragraph	Change: "...in Subsection 3.6.2.4." to "...in Subsection 3.6.2.4.5." Editorial: Correct typographical error
3.6-18	Subsection 3.6.2.4.2.2 2 nd Paragraph, 2 nd Sentence	Change: "If the above evaluation determines that safety-related SSCs are lacking in structural integrity, pipe whip restraints ..." to "If the above evaluation determines that the structural integrity of safety-related SSCs is impaired, pipe whip restraints ..." Editorial: Clarify scope of statement
3.6-18	Subsection 3.6.2.4.2.2 6 th Paragraph, 1 st Sentence	Change: "See Subsection 3.6.2 for..." to "See Subsection 3.6.2.4.4.1 for..." Editorial: Correct typographical error
3.6-18	Subsection 3.6.2.4.2.2 7 th Paragraph, 1 st Sentence	Change: "... the piping system and restraints can be modeled ..." to "... the piping system and restraints are modeled ..." Editorial: Clarify as an affirmative statement opposed to a statement of action
3.6-18	Subsection 3.6.2.4.2.3 3 rd Paragraph, 2 nd Sentence	Change: "The RELAP-5 (Reference 3.6-15) ... pressure and kinetic energy." to "The RELAP-5 code (Reference 3.6-15) ... pressure and kinetic energy in this loading situation." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-19	Subsection 3.6.2.4.4.1 1 st Paragraph, 1 st Sentence	Change: "The pipe whip restraints and the analytical methods for design are provided in this section." to "The analytical methods for the design of the pipe whip restraints are described in this subsection." Editorial: Clarify scope of statement
3.6-19	Subsection 3.6.2.4.4.1 2 nd Paragraph, 1 st Sentence	Change: "... required to satisfy the protection requirements defined in this section, the following guidelines are followed to select the type of whip restraint." to "... required to satisfy protection requirements, the following guidelines are followed to select the type of restraint." Editorial: Clarify scope of statement
3.6-19	Subsection 3.6.2.4.4.1 4 th Paragraph, 2 nd Sentence	Change: "... the energy absorbing element described in the following:" to "... the energy absorbing element is one of the following:" Editorial: Clarify scope of statement
3.6-20	Subsection 3.6.2.4.4.1.1 Item C., 1 st Sentence	Change: "Restraints generally must not impede the proximity required ..." to "Restraints generally must not impede the access required ..." Editorial: Clarify scope of statement
3.6-20	Subsection 3.6.2.4.4.1.2 Item C., 2 nd Sentence	Change: "The developed thrust force is directed to move ..." to "The developed thrust force is assumed to be applied to move ..." Editorial: Clarify scope of statement
3.6-21	Subsection 3.6.2.4.4.2 1 st Paragraph, 2 nd Sentence	Change: "Generally the protection requirements are met through the protection provided by walls, floors, and columns." to "Generally, protection provided by walls, floors, and columns is sufficient to meet protection requirements." Editorial: Clarify scope of statement
3.6-21	Subsection 3.6.2.4.4.3 2 nd Paragraph, 1 st Sentence	Change: "Following a postulated pipe rupture, the end of a pipe will whip and impact into a surrounding structure, if the pipe is not sufficiently restrained." to "Following a postulated pipe rupture, pipe whip into surrounding structures will occur, if the pipe is not sufficiently restrained." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.6-21	Subsection 3.6.2.4.4.3 3 rd Paragraph, 5 th Sentence	Change: "The concrete ductility ratio ... and it is assumed that it is within the limits ..." to "For impact into concrete, the concrete ductility ratio ... and it is assumed to be within the limits ..." Editorial: Clarify scope of statement
3.6-21	Subsection 3.6.2.4.4.3 4 th Paragraph, 1 st Bullet	Change: "An unrestrained whipping pipe is considered capable of causing circumferential and longitudinal breaks, individually, in impacted pipes of smaller nominal pipe size, and of developing leakage cracks in equal or larger nominal pipe sizes with thinner wall thickness, except where analytical or experimental, or both, data for the expected range of impact energies demonstrate the capability to withstand the impact without rupture." to "A whipping pipe is not considered capable of damaging an impacted pipe of equal or greater diameter and thickness. It is considered capable of (a) rupturing impacted pipes of smaller nominal pipe sizes, and (b) developing through-wall leakage cracks in pipe of equal or greater diameter having a lesser wall thickness (Reference 3.14), except where analytical or experimental, or both, data for the expected range of impact energies demonstrate the capability to withstand the impact without rupture. Effects on environment and shutdown logics associated with the failure of the impacted pipe are considered." Editorial: Clarify scope of statement
3.6-22	Subsection 3.6.2.4.4.3 4 th Paragraph	Add below: "3.6.2.5 Implementation of Criteria Addressing Site-Specific Piping and Special Features The COL Applicant is to discuss implementation of criteria dealing with special features, if any." Editorial: Provide consistent COL Applicant action and wording
3.6-22	Subsection 3.6.3 1 st Paragraph, 3 rd Sentence	Change: "Evaluation is executed in accordance with SRP 3.6.3 ..." to "The LBB evaluation is performed in accordance with SRP 3.6.3 ..." Editorial: Clarify scope of statement
3.6-22	Subsection 3.6.3 2 nd Paragraph, 1 st Sentence	Change: "...postulated through-wall crack." to "...postulated pipe break." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-22	Subsection 3.6.3 3 rd Paragraph	<p>Add new paragraph below: “The COL Applicant is to identify the types of as-built materials and material specification used for base metal welds, weldments, and safe ends for piping evaluated for LBB. Additionally, the COL Applicant is to provide information related to as-built material and material specifications for piping including toughness (J-R curves) and tensile strength (stress-strain curves), yield and ultimate strength, welding process/methods used, provide confirmation that the actual plant-specific stress analysis based on final as-built plant piping layout and material properties and welds satisfy the bounding LBB analysis, and provide confirmation that the final bounding LBB analysis addresses all plant-specific and generic degradation mechanisms in the as-built piping systems. This issue is to be resolved in ITAAC described in Table 2.3-2 of Tier 1 Chapter 2.3.”</p> <p>Editorial: Provide consistency</p>
3.6-23	Subsection 3.6.3.2 1 st Paragraph, 1 st Bullet, 5 th Dashed Line Item	<p>Change: “The maximum axial stress and corresponding normal operating axial stress are within the LBB bounding analysis curves (BACs) (Subsection 3.6.3.3).” to “The maximum stress and the normal stress are within the bounding analysis curves (BACs) (Subsection 3.6.3.4) for an entire piping system or analyzable portion.”</p> <p>Editorial: Clarify scope of statement</p>
3.6-23	Subsection 3.6.3.2 2 nd Paragraph, 1 st Sentence	<p>Change: “... when technically justified to the LBB criteria.” to “... when technically justified by application of the LBB criteria.”</p> <p>Editorial: Clarify scope of statement</p>
3.6-24	Subsection 3.6.3.3.1 1 st Paragraph, 3 rd Sentence	<p>Change: “Water hammer is not applicable under these conditions.” to “Water hammer does not occur under these conditions.”</p> <p>Editorial: Clarify scope of statement</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.6-24	Subsection 3.6.3.3.1 <u>RCL Branch Piping</u> 1 st Paragraph, 1 st & 2 nd Sentences	Change: "As to water hammer against RCL branch piping, water hammer by seal water in case of blow down of pressurizer safety valve and relief valve lines was experienced in the past. Due to this reason, analysis of water hammer for these piping ..." To "Water hammer in RCL branch piping can occur by seal water in case of blowdown of pressurizer safety valve and relief valve lines, has been experienced in the past. Due to this reason, analysis of water hammer on these piping ..." Editorial: Clarify statement and correct grammar.
3.6-25	Subsection 3.6.3.3.1 <u>RCL Branch Piping</u> 3 rd Paragraph, 1 st & 2 nd Sentences	Change: "...other than these cases and these piping is also designed ... such as pressurizer safety valve or relief valve, is provided." to "...other than in these areas and the piping is designed ... such as pressurizer safety valve or relief valve, is present in the piping." Editorial: Clarify scope of statement
3.6-25	Subsection 3.6.3.3.1 <u>RCL Branch Piping</u> 4 th Paragraph, 1 st Sentence	Change: "From the above reasons, potential of water hammer to occur are very slim regarding RCL branch piping that is applied LBB criteria." to "From the above reasons, water hammer is not anticipated to occur regarding RCL branch piping that LBB criteria is applied." Editorial: Clarify statement and correct grammar.
3.6-25	Subsection 3.6.3.3.1 <u>Main Steam Piping</u> 1 st Paragraph, 1 st Sentence	Change: "Water hammer in the main steam line..." to "Steam hammer in the main steam line ..." Editorial: Clarify scope of statement.
3.6-25	Subsection 3.6.3.3.1 <u>Main Steam Piping</u> 2 nd Paragraph, 1 st Sentence	Change: "The protection against a potential occurrence of steam hammer is provided through operations and maintenance that provide ..." to "Protection against the potential occurrence of steam hammer is provided through operations and maintenance procedures that provide ..." Editorial: Clarify scope of statement
3.6-25	Subsection 3.6.3.3.1 <u>Main Steam Piping</u> 3 rd Paragraph, 2 nd & 3 rd Sentence	Change: "Therefore, the main steam piping is not adversely impacted by water hammer ..." to "Therefore, the main steam piping is adequately designed to sustain steam hammer ..." Editorial: Clarify scope of statement.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-26	Subsection 3.6.3.3.4 <u>RCL Piping</u> 1 st Paragraph, 1 st Sentence	Change: "... through years of successful industry usage." to "... through years of successful industry usage to resist SCC." Editorial: Clarify scope of statement
3.6-26	Subsection 3.6.3.3.4 <u>RCL Piping</u> 2 nd Paragraph, 1 st Sentence	Change: "... other pressurized water reactors has affirmed acceptability for this scope of system operation." to "... other pressurized water reactors has affirmed their acceptability." Editorial: Clarify scope of statement
3.6-26	Subsection 3.6.3.3.4 <u>RCL Piping</u> 3 rd Paragraph, 1 st Sentence	Change: "...stainless steel to carbon steel interface are a high nickel alloy material." to "...stainless steel to carbon steel interface are performed utilizing a high nickel alloy material." Editorial: Add missing words to correct grammar.
3.6-26	Subsection 3.6.3.3.4 <u>Main Steam Piping</u> 1 st Paragraph, 2 nd Sentence	Change: "... the secondary side water treatment utilizes all volatile treatment." to "... the secondary side utilizes an all-volatile water treatment chemistry." Editorial: Clarify scope of statement
3.6-27	Subsection 3.6.3.3.6 <u>Main Steam Piping</u> 1 st Paragraph	Change: "...MSS and FWS piping..." to "...MSS piping..." Editorial:
3.6-27	Subsection 3.6.3.3.7 1 st Paragraph, 2 nd Sentence	Change: "Carbon steel used for main steam piping is very ductile and also resistant to cleavage failure at defined operating temperatures." to "Carbon steel used for main steam piping is resistant to cleavage failure at defined operating temperatures." Editorial: Clarify statement and remove superfluous information.
3.6-27	Subsection 3.6.3.3.7 2 nd Paragraph, 1 st Sentence	Change: "Other postulated pipe failure mechanisms include the effects of indirect events such as support or nearby SSC failures or missile impacts." to "Other postulated pipe failure mechanisms include the effects of secondary events such as surrounding SSC failures or missile impacts." Editorial: Clarify statement scope.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.6-27	Subsection 3.6.3.3.7 3 rd Paragraph	<p>Change: “The requirements of seismic Category I structures qualify the related pipe supports. Other nearby SSCs are designed to preclude damage to RCL piping, RCL branch piping, and main steam piping to either seismic Category I or seismic Category II requirements. Therefore, the indirect effects of support or nearby SSC failures are not considered credible failure conditions.” to “Surrounding SSCs are designed to preclude damage to RCL piping, RCL branch piping, and main steam piping by meeting seismic Category I or seismic Category II requirements. Therefore, the secondary effects of surrounding SSCs will have no adverse effect on safety-related SSCs.”</p> <p>Editorial: Clarify statement scope.</p>
3.6-28	Subsection 3.6.3.4 4 th Paragraph, 2 nd Sentence	<p>Change: “Connection to a larger pipe or a component of larger aperture is generally considered a terminal end.” to “Connection to a larger pipe or a component of larger diameter is generally considered a terminal end.”</p> <p>Editorial: Clarify statement scope.</p>
3.6-28	Subsection 3.6.3.4.1 1 st Paragraph	<p>Change: “Leak defects are postulated for piping identified as meeting the LBB criteria. Sizes of postulated defects are sufficiently large so that leaks can be detected by a sufficient margin. Leak rate of 10 times the capability of the leak detector is postulated for normal operating loads combined arithmetically.” to “Leakage flaws are postulated for piping identified in Subsection 3.6.3.1 as following. Sizes of postulated flaws are sufficiently large so that leaks can be detected by a sufficient margin. Leak rate of 10 times the capability of the leak detector is postulated for normal operating load combinations. The COL Applicant is to confirm that the plant-specific leakage detection system satisfies the assumptions of the bounding LBB analysis.”</p> <p>Editorial: Clarify scope of statement and provide consistency with COL item</p>
3.6-28	Subsection 3.6.3.4.2 Title	<p>Change: “Stability and Critical Defect Sizes” to “Stability and Critical Crack Sizes”</p> <p>Editorial: Clarify statement scope</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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<p>3.6-29</p>	<p>Subsection 3.6.3.4.3 1st Paragraph 3rd & 4th Sentences</p>	<p>Change: "A minimum margin of 2.0 is maintained. In order to meet the margin 1.0 for the load, the maximum loads are added by using absolute sum of individual loads." to "The margin of two applies to the margin between the critical flaw size and the 10-gpm leakage size flaw. The margin of 1.0 on the load is used, since the loads are added by absolute sum." Editorial: Clarify statement scope.</p>
<p>3.6-29</p>	<p>Subsection 3.6.3.4.4 1st Paragraph, 2nd Sentence</p>	<p>Change: "... Maximum defect stress ..." to "... Maximum crack stress ..." Editorial: Clarify statement scope.</p>
<p>3.6-32</p>	<p>Subsection 3.6.4 COL 3.6(1)</p>	<p>Change: "<i>The COL Applicant is to identify the systems or components important to plant safety or shutdown that are located near to high- or moderate-energy piping systems and are susceptible to the consequences of these piping failures (Subsection 3.6.1).</i>" to "<i>The COL Applicant is to identify the site-specific systems or components that are safety-related or required for safe shutdown that are located near high-energy or moderate-energy piping systems, and are susceptible to the consequences of these piping failures. The COL Applicant is to provide a list of site-specific high-energy and moderate-energy piping systems, which includes a description of the layout of all piping systems where physical arrangement of the piping systems provides the required protection, the design basis of structures and compartments used to protect nearby essential systems or components, or the arrangements to assure the operability of safety-related features where neither separation nor protective enclosures are practical. The COL Applicant is to provide a list of site-specific high-energy and moderate-energy piping systems, which includes a description of the layout of all piping systems where physical arrangement of the piping systems provides the required protection, the design basis of structures and compartments used to protect nearby essential systems or components, or the arrangements to assure the operability of safety-related features where neither separation nor protective enclosures are practical.</i>" Editorial: Combined COL 3.6 (1), (2), and (3). Provided consistent COL Applicant action and wording</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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<p align="center">3.6-32</p>	<p align="center">Subsection 3.6.4 COL 3.6(2)</p>	<p>Change: <i>“The COL Applicant is to provide a list of high- and moderate-energy lines, which includes a description of the layout of all piping systems where physical arrangement of the piping systems provides the required protection, the design basis of structures and compartments used to protect nearby essential systems or components, or the arrangements to ensure the operability of safety features where neither separation nor protective enclosures are practical (Subsection 3.6.1).” to “Deleted”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
<p align="center">3.6-32</p>	<p align="center">Subsection 3.6.4 COL 3.6(3)</p>	<p>Change: <i>“The COL Applicant is to provide the failure mode and effect analysis to verify that the consequences of failures in high- and moderate energy lines do not affect ability to safely shutdown the plant (Subsection 3.6.1).” to “Deleted”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
<p align="center">3.6-32</p>	<p align="center">Subsection 3.6.4 COL 3.6(4)</p>	<p>Change: <i>“The COL Applicant is to implement the criteria for defining pipe break and crack location and configuration and location of design basis breaks and cracks (Subsection 3.6.2.1).” to “The COL Applicant is to implement the criteria of the following subsections for defining break and crack locations and configurations, and the locations and configurations of design basis pipe break and crack locations and configurations for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to identify the postulated rupture orientation of each postulated break location for site-specific high-energy and moderate-energy piping systems. The COL Applicant is to implement the appropriate methods to assure that as-built configuration of site-specific high-energy and moderate-energy piping systems is consistent with the design intent and provide as-built drawings showing component locations and support locations and types that confirms this consistency.”</i></p> <p>Editorial: Combined COL 3.6(4), (5), and (7)</p> <p>Provided consistent COL Applicant action and wording</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.6-32	Subsection 3.6.4 COL 3.6(5)	Change: <i>“The COL Applicant is to identify the postulated rupture orientation of each postulated break location (Subsection 3.6.2.1).” to “Deleted”</i> Editorial: Provided consistent COL Applicant action and wording
3.6-33	Subsection 3.6.4 COL 3.6(6)	Change: <i>“The COL Applicant is to implement the criteria associated with special features, if any (Subsection 3.6.2.5).” to “The COL Applicant is to discuss the implementation of criteria dealing with special features, if any.”</i> Editorial: Provided consistent COL Applicant action and wording
3.6-33	Subsection 3.6.4 COL 3.6(7)	Change: <i>“The COL Applicant is to implement the appropriate methods to assure that as built plant is consistent with the design and as built drawings showing component locations and support locations and types.” to “Deleted”</i> Editorial: Provided consistent COL Applicant action and wording
3.6-33	Subsection 3.6.4 COL 3.6(8)	Change: <i>“The COL Applicant is to identify the types of as-built materials and material specification used for base metal welds, weldments, and safe ends for piping evaluated for LBB.” to “Deleted.”</i> Editorial: Provided consistent COL Applicant action and wording
3.6-33	Subsection 3.6.4 COL 3.6(9)	Change: <i>“The COL Applicant is to provide information related to as-built material and material specifications for piping including toughness (JR curves) and tensile strength (stress-strain curves), yield and ultimate strength, welding process/methods used.” to “Deleted.”</i> Editorial: Provided consistent COL Applicant action and wording
3.6-39	Figure 3.6-4, “No” Conclusion	Change: “Break: Restraints” to “Not Qualified for LBB” Editorial: Clarify statement.
3.6-39	Figure 3.6-4, “Yes” Conclusion	Change: “Leak: No Restraints” to “Qualified for LBB” Editorial: Clarify statement.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-1	Section 3.7 2 nd Paragraph, 2 nd Sentence	Change: "... standard plant structures that are part of the US-APWR standard plant, and the ..." to "... standard plant structures, and the ..." Editorial: Remove superfluous words
3.7-1	Section 3.7 3 rd Paragraph	Change: "It is the responsibility of the COL Applicant ... and geophysical information discussed in Chapter 2 and to develop ... The COL Applicant is required to verify the validity of the site-independent seismic design of standard plant for the site-specific conditions." to "The COL Applicant is to validate the site-independent seismic design of the standard plant for site-specific conditions, including geological, seismological, and geophysical characteristics, and to develop the site-specific GMRS as free-field outcrop motions on the uppermost in-situ competent material." Editorial: State requirement of COL 3.7(20)
3.7-1	Section 3.7 4 th Paragraph	Add the following new paragraph after the 4 th paragraph: "The COL Applicant is to develop site-specific GMRS and FIRS by an analysis methodology, which accounts for the upward propagation of the GMRS. The FIRS are compared to the CSDRS to assure that the US-APWR standard plant seismic design is valid for a particular site. If the FIRS are not enveloped by the CSDRS, the US-APWR standard plant seismic design is modified as part of the COLA in order to validate the US-APWR for installation at that site." Editorial: State requirement of COL3.7(6)
3.7-1	Subsection 3.7.1.1 1 st Paragraph, 1 st Sentence	Add the following new sentence after 1 st sentence: "The COL Applicant is to confirm that the site-specific PGA at the basemat level control point of the CSDRS is less than or equal to 0.3 g." Editorial: State requirement of COL 3.7(1)
3.7-2	Section 3.7.1.1 SSE 3 rd Paragraph, 1 st Sentence	Change: "...standard plant seismic category I SSCs." to "... standard plant seismic category I and seismic category II SSCs." Editorial: Correct scope of statement by aligning with other DCD sections

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-2	Section 3.7.1.1 SSE 3 rd Paragraph, 2 nd Sentence	Change: "... R/B, PCCV and containment internal structure, the east and west PS/Bs, and the power source fuel storage vaults (PSFSVs)." to "... R/B, PCCV and containment internal structure, and the east and west PS/Bs. Seismic category II buildings include the A/B and T/B." Editorial: Correct scope of statement by aligning with other DCD sections
3.7-2	Section 3.7.1.1 SSE 4 th Paragraph, 1 st & 2 nd Sentences	Change: "For the design of seismic category I and II SSCs that are ...which can affect their integrity, the COL Applicant can use a site-dependent SSE that is derived from the site-specific GMRS. Examples of buildings and structures which are not part of the standard plant include, essential service water pipe tunnel (ESWPT) (seismic category I), and ultimate heat sink related structures (UHSRS) (seismic category I)." to "For the design of seismic category I and seismic category II SSCs that are ... which can affect their integrity, a site-dependent SSE that is derived from the site-specific GMRS can be used. Examples of seismic category I buildings and structures which are not part of the standard plant include the essential service water pipe tunnel (ESWPT), the power source fuel storage vaults (PSFSVs), and the ultimate heat sink related structures (UHSRS)." Editorial: Correct scope of statement by aligning with other DCD sections
3.7-3	Section 3.7.1.1 CSDRS 3 rd Paragraph, 1 st Sentence	Change: "... that are employed for the seismic design of the US-APWR standard plant ..." to "... that are employed for the seismic category I design of the US-APWR standard plant ..." Editorial: Clarify scope of statement
3.7-3	Section 3.7.1.1, CSRDS 3 rd Paragraph, 8 th Sentence	Change "... the COL Applicant is required to perform site-specific seismic analyses as discussed later in this section, including soil-structure interaction ... plant superstructure such that there would be potentially damaging effects." to "... the COL Applicant is to perform site-specific seismic analyses, including a soil-structure interaction ... plant superstructure with potentially damaging effects." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-4	Subsection 3.7.1.1 Site-Specific GMRS, 2 nd Paragraph, 1 st Sentence	Change: “It is the responsibility of COL Applicant to develop GMRS at a sufficient number ...” to “Site-specific GMRS are developed at a sufficient number ...” Editorial: Remove superfluous words and clarified scope of statement
3.7-4	Subsection 3.7.1.1 Site-Specific GMRS, 2 nd Paragraph, 3 rd Sentence	Change: “The COL Applicant develops the horizontal GMRS using site amplification ...” to “Horizontal GMRS are developed using a site amplification ...” Editorial: Remove superfluous words and clarified scope of statement
3.7-4	Section 3.7.1.1, Site-Specific GMRS 2 nd Paragraph, 4 th Sentence	Change: “...soil profiles have to account for ...” to “... soil profiles account for ...” Editorial: State as process opposed to future action
3.7-4	Subsection 3.7.1.1 Site-Specific GMRS, 3 rd Paragraph, 1 st Sentence	Change: “Vertical GMRS are to be developed by the COL Applicant by combining ...” to “Vertical GMRS are developed by combining ...” Editorial: Remove superfluous words and state as process opposed to future action
3.7-4	Section 3.7.1.1, FIRS 1 st Paragraph, 2 nd Sentence	Change: “... response analyses that must consider only ...” to “... response analyses that consider only ...” Editorial: State as process opposed to future action

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.7-4	Section 3.7.1.1, FIRS 2 nd Paragraph,	<p>Change in its entirety to: "Appendix S (IV)(a)(1)(i) of 10 CFR 50 (Reference 3.7-7) requires that the SSE ground motion in the free-field at the basemat level must be represented by an appropriate response spectra with a PGA of at least 0.1 g. This requirement is met on a site-specific basis by considering the minimum horizontal response spectra that are tied to the shapes of the US-APWR CSDRS and anchored at 0.1g. Since the CSDRS are based on modified RG 1.60-spectra, this assures that there is sufficient energy content in the low-frequency range. The COL Applicant is to assure that the horizontal FIRS defining the site-specific SSE ground motion at the bottom of seismic category I or II basemats envelope the minimum response spectra required by 10 CFR 50, Appendix S (Reference 3.7-7), and the site-specific response spectra obtained from the response analysis. The same requirements apply to the vertical FIRS, which are developed from the horizontal FIRS by using vertical/horizontal response spectral ratios appropriate for the site."</p> <p>Editorial: Clarify scope of statement</p>
3.7-4	Subsection 3.7.1.1 FIRS, 3 rd Paragraph, 1 st , 2 nd & 3 rd Sentences	<p>Consolidate 3 sentences into 2 sentences: "A COL Applicant referencing the US-APWR is required to perform verification analysis as described ... based on a site-specific SSE defined by the site-specific FIRS." to "The COL Applicant is to perform an analysis of the US-APWR standard plant seismic category I design to verify that the site-specific FIRS at the basemat level control point of the CSDRS are enveloped by the site-independent CSDRS. If the verification analysis proves the site-independent seismic design to be inadequate, a reanalysis of the affected SSCs is performed based on a site-specific SSE defined by the site-specific FIRS."</p> <p>Editorial: Clarify scope of statement</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-5	Section 3.7.1.1, OBE 2 nd Paragraph	Change in its entirety: "The COL Applicant sets the value ... enveloped by 1/3 of the site-specific FIRS and GMRS." to "The COL Applicant is to set the value of the OBE that serves as the basis for defining the criteria for shutdown of the plant, according to the site-specific conditions. The site-specific seismic design does not have to consider OBE loads when Option A is maintained by setting the OBE spectra as enveloped by 1/3 of the site-specific FIRS and GMRS. Subsection 3.7.4 describes the criteria and the seismic instrumentation used to determine whether the OBE has been exceeded. By limiting the value of the OBE to 1/3 of the site-independent SSE, Option A is also maintained for the site-independent seismic design of the US-APWR standard plant, and no design analysis is required to address the OBE loads for the seismic category I SSCs that are designed using the site-independent SSE." Editorial: Clarify scope of statements
3.7-5	Section 3.7.1.1, OBE 3 rd Paragraph, 4 th Sentence	Change: "... 1/3 of the SSE (and, therefore, the OBE does not need to be considered in the design), the guidance ..." to "... 1/3 of the SSE, the guidance ..." Editorial: Remove superfluous phrase
3.7-6	Section 3.7.1.1, Design Ground Motion Time History 2 nd Paragraph, 1 st and 2 nd Items	Change: "... NS = Standard Plant north-south ... EW = Standard Plant east-west ..." to "... NS = Plant north-south ... EW = Plant east-west ..." Editorial: Clarify scope of statements
3.7-7	Section 3.7.1.1, Design Ground Motion Time History 6 th Paragraph, item (c), 2 nd Paragraph, 5 th Sentence	Change: "All these non-exceedances are considered acceptable with respect to the intent of SRP 3.7.1 (Ref. 3.7-10) since they do not ..." to "All these non-exceedances are considered acceptable and consistent with the intent of SRP 3.7.1 (Ref. 3.7-10), since they do not ..." Editorial: Clarify scope of statement
3.7-9	Subsection 3.7.1.1.1 Duration of Motion 4 th Paragraph, 2 nd Sentence	Change: "These parameters must be examined by the COL Applicant to assure they are consistent ..." to "These parameters are examined to assure they are consistent ..." Editorial: State as process opposed to future action, and remove superfluous words

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-9	Subsection 3.7.1.1.1 Duration of Motion Last Paragraph	Add new paragraph below: "The COL Applicant is to provide site-specific design ground motion time histories and durations of motion." Editorial: Provided consistent COL Applicant action and wording
3.7-9	Subsection 3.7.1.2 2 nd Paragraph, 5 th Sentence	Change: "Therefore, to prevent non-conservative results, the COL Applicant must review the resulting level seismic response and determine appropriate damping values for the site-specific calculations of ISRS that serve as input for the seismic analysis of seismic category I and II subsystems." to "To prevent non-conservative results, the COL Applicant is to review the resulting level of seismic response and determine appropriate damping values for the site-specific calculations of ISRS that serve as input for the seismic analysis of seismic category I and seismic category II subsystems." Editorial: Clarify scope of statement
3.7-10	Subsection 3.7.1.3 1 st Paragraph, 1 st Sentence	Change: "... are given in Table 3.7.1-3." to "... are given in Table 3.7.1-3 and as updated by the COL Applicant to include site-specific seismic category I structures." Editorial: Clarify scope of statement
3.7-10	Subsection 3.7.1.3 2 nd Paragraph, 3 rd , 4 th , & 5 th Sentences	Consolidate 3 sentences into 2 sentences: "The COL Applicant is required to ... depending on site-specific geotechnical conditions addressed in the COL Application." to "The COL Applicant is to determine the allowable dynamic bearing capacity based on site conditions, and to evaluate the bearing load to this capacity. A minimum factor of safety of 2 is suggested for the ultimate bearing capacity versus the allowable dynamic bearing capacity; however, a different value may be justified based on site-specific geotechnical conditions." Editorial: Clarify scope of statement
3.7-10	Subsection 3.7.1.3 3 rd Paragraph, 1 st Sentence	Change: "The site-independent seismic design of seismic category I and II SSCs ..." to "The site-independent seismic design of seismic category I and seismic category II SSCs ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-11	Subsection 3.7.1.3 3 rd Paragraph, 5 th Sentence	Change: "... (such as the material properties, depth, or the layering ...)" to "... (such as the material properties, depth, and the layering ...)" Editorial: Clarify scope of statement
3.7-11	Subsection 3.7.1.3 4 th Paragraph, 1 st Sentence	Delete in its entirety: "This DCD requires the COL Applicant is to address ... seismic category I and seismic category II SSCs of the standard plant." Editorial: Remove as redundant with Subsection 3.7.2.4.1, 2 nd paragraph
3.7-11	Subsection 3.7.1.3 4 th Paragraph, 3 rd Sentence	Change: "If these earthquake-induced strains ... soil properties are to be obtained ..." to "If the earthquake-induced strains ... soil properties are obtained ..." Editorial: State as process opposed to future action
3.7-11	Subsection 3.7.1.3 4 th Paragraph, 4 th Sentence	Change: "The COL Applicant is required to perform site-specific SSI analyses ... on their common basemat using the finite element ..." to "The site-specific SSI analyses ... on their common basemat uses the finite element ..." Editorial: Remove superfluous words
3.7-11	Subsection 3.7.1.3 4 th Paragraph, 6 th Sentence	Change: "The COL Applicant has the option to perform SASSI analysis to consider ..." to "A SASSI analysis can be performed to consider ..." Editorial: Remove superfluous words and clarify scope of statement
3.7-11	Subsection 3.7.2 1 st Paragraph 3 rd Sentence	Change: "...and structures of the US-APWR standard plant that..." to "...and structures that..." Editorial: Remove superfluous information
3.7-11	Subsection 3.7.2 1 st Paragraph, 3 rd Bullet	Delete: "PSFSVs (seismic category I)" Editorial: Correct scope of statement by aligning with other DCD sections
3.7-12	Subsection 3.7.2 2 nd & 3 rd Paragraphs	Delete in their entirety: "It is the responsibility of the COL Applicant ... major seismic category I structures mentioned above." Editorial: 2 nd paragraph is redundant with Subsection 3.7.2.3.1, 6 th paragraph, and 3 rd paragraph is superfluous statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-12	Subsection 3.7.2 4 th Paragraph, 1 st Sentence	Change: “The seismic response of the major seismic category I structures ...” to “The seismic response of the major seismic category I and seismic category II structures ...” Editorial: Correct scope of statement by aligning with other DCD sections
3.7-12	Subsection 3.7.2 5 th Paragraph, 1 st Sentence	Change: “This is accomplished using the overall process summarized as follows:” to “The overall process can be summarized as follows:” Editorial: Clarify scope of statement
3.7-12	Subsection 3.7.2 5 th Paragraph, 3 rd Bullet, 1 st Sentence	Change: “...of major seismic category I buildings and structures.” to “...of major seismic category I and seismic category II buildings and structures.” Editorial: Align with other DCD sections
3.7-12	Subsection 3.7.2 5 th Paragraph, 4 th Bullet, 1 st Sentence	Change: “...components of the earthquake.” to “...components of the earthquake motion.” Editorial: Clarify scope of statement
3.7-13	Subsection 3.7.2.1 1 st Paragraph, 2 nd Sentence	Change: “Table 3.7.2-1 presents a summary ...” to “Table 3.7.2-1, as updated by the COL Applicant to include site-specific seismic category I structures, presents a summary ...” Editorial: Clarify scope of statement
3.7-13	Subsection 3.7.2.1 2 nd Paragraph, 1 st Sentence	Change: “... major seismic category I structures ...” to “... major seismic category I and seismic category II structures ...” Editorial: Correct scope of statement by aligning with other DCD sections
3.7-16	Subsection 3.7.2.1 12 th Paragraph, 1 st Sentence	Change: “For all seismic analysis methods used in the design of US-APWR standard plant seismic category I SSCs, seismic anchor motions have been taken into consideration.” to “Seismic anchor motions are taken into consideration for all seismic analysis methods used in the design of seismic category I and seismic category II SSCs.” Editorial: Correct scope of statement by aligning with other DCD sections

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-16	Subsection 3.7.2.1 12 th Paragraph, 3 rd & 4 th Sentences	Change: "...in performing the US-APWR standard plant design, ... permitted in SRP 3.7.2 (Reference 3.7-16) and be available for NRC review. Note that nonlinear and inelastic behavior ..." to "...in performing the plant design, ... permitted in SRP 3.7.2 (Reference 3.7-16). Nonlinear and inelastic behavior ..." Editorial: Clarify scope of statement
3.7-16	Subsection 3.7.2.2 3 rd Paragraph, 1 st Sentence	Change: "...four generic subgrade conditions: (1) soft soil with shear wave velocity $V_s = 1,000$ ft/s, rock (medium 1) with $V_s = 3,500$ ft/s, rock (medium 2) with $V_s = 6,500$ ft/s, and hard rock with $V_s = 8,000$ ft/s (fixed base condition is assumed)." to "... four generic subgrade conditions: (1) soft soil with shear wave velocity $V_s = 1,000$ ft/s, (2) rock (medium 1) with $V_s = 3,500$ ft/s, (3) rock (medium 2) with $V_s = 6,500$ ft/s, and (4) hard rock with $V_s = 8,000$ ft/s (fixed base condition is assumed)." Editorial: Clarify scope of statement
3.7-17	Subsection 3.7.2.3.1 1 st Paragraph, 1 st Sentence	Change: "... major seismic category I structures ..." to "... major seismic category I and seismic category II structures ..." Editorial: Correct scope of statement by aligning with other DCD sections
3.7-17	Subsection 3.7.2.3.1 5 th Paragraph, 1 st Sentence	Change: "The seismic analyses of the US-APWR standard plant presented in this DCD are performed ... major seismic category I structures." to "The seismic analyses of the US-APWR standard plant are performed ... major seismic category I and seismic category II structures." Editorial: Remove superfluous words and correct scope of statement by aligning with other DCD sections
3.7-17	Subsection 3.7.2.3.1 6 th Paragraph, 1 st Sentence	Change: "It is the responsibility of the COL Applicant referencing the US-APWR standard plant, to develop the appropriate analytical models for the seismic analysis ..." to "It is the responsibility of the COL Applicant to develop analytical models appropriate for the seismic analysis ..." Editorial: Clarify scope of statement
3.7-17	Subsection 3.7.2.3.1 6 th Paragraph, 1 st Bullet	Change: "PSFSVs (seismic category I) (if re-designed or modified for site specific condition)" to "PSFSVs (seismic category I)" Editorial: Correct scope of statement by aligning with other DCD sections

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-17	Subsection 3.7.2.3.1 6 th Paragraph, 2 nd Bullet	Delete bullet in its entirety. Editorial: Moved to Subsection 3.7.2.8.4
3.7-18	Subsection 3.7.2.3.1 8 th Paragraph, 1 st Sentence	Change: "... major seismic category I structures, ... and load combinations as given in Section 3.8." to "... major standard plant seismic category I and seismic category II structures, ... and load combinations as described in Section 3.8." Editorial: Correct scope of statement by aligning with other DCD sections
3.7-18	Subsection 3.7.2.3.2 2 nd Paragraph, 3 rd Sentence	Change: "... mass distribution and compensates for potential effects due to coupling of the RCL subsystem such as ..." to "... mass distribution and potential effects due to coupling of the RCL subsystem, such as ..." Editorial: Remove superfluous words and correct grammatical error
3.7-20	Subsection 3.7.2.3.3 3 rd Paragraph, 1 st Sentence	Change: "A set of static and dynamic analyses are performed ..." to "A set of static analyses are performed ..." Technical: Dynamic analyses are not used for 3 dimensional FE model
3.7-20	Subsection 3.7.2.3.4 3 rd Paragraph, 3 rd Sentence	Delete in its entirety: "The COL Applicant is responsible for ... performed for these cranes." Editorial: Remove superfluous statement
3.7-26	Subsection 3.7.2.3.10 2 nd Paragraph, 2 nd Bullet, 2 nd Sentence	Change: "... acceptable if the stick model results either envelope ..." to "... acceptable if the stick model results envelope ..." Editorial: Correct grammatical error
3.7-26	Subsection 3.7.2.3.10.1 <u>Static Loading Analysis</u> 1 st Paragraph, item (iv) 1 st Paragraph	Change: "... adjusted so that the difference of them becomes small within reasonable engineering judgment." to "... adjusted so that the difference between them becomes small, applying reasonable engineering judgment." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-26	Subsection 3.7.2.3.10.1 <u>Static Loading Analysis</u> 1 st Paragraph, item (iv) 2 nd Paragraph	Change: "The adjustments done for the stiffness properties of the stick model through this procedure are as follows." to "The adjustments to the stiffness properties of the stick model are as follows." Editorial: Clarify scope of statement
3.7-28	Subsection 3.7.2.3.11 1 st Paragraph, 1 st Sentence	Change: "In the design of US-APWR standard plant seismic category I buildings and structures, ..." to "In the design of seismic category I and seismic category II buildings and structures, ..." Editorial: Correct scope of statement by aligning with other DCD sections
3.7-28	Subsection 3.7.2.3.11 1 st Paragraph, 5 th Sentence	Change: "Therefore, 50 lb/ft ² has been used ..." to "Therefore, 50 lb/ft ² (25% of 200 lb/ft ²) has been used ..." Editorial: Clarify scope of statement
3.7-28	Subsection 3.7.2.4 1 st Paragraph	Change: "...of all major US-APWR seismic category I buildings and structures that are part of the US-APWR standard plant. The SSI analysis of the major seismic category I structures use ...super-structures." to "...of all major seismic category I and seismic category II buildings and structures that are part of the US-APWR standard and non-standard plant. The SSI analyses use super-structures. In the case of the SSI lumped parameter analysis of the R/B-PCCV-containment internal structure, a site-specific SSI analysis is also performed using the computer program SASSI (Reference 3.7-17) in order to confirm that site-specific effects are enveloped by the standard design." Editorial: Align with other DCD sections and scope of deleted statement included in Subsection 3.7.2.4
3.7-29	Subsection 3.7.2.4 2 nd Paragraph, 6 th Sentence	Change: "... presented in Table 3.3-3 that are in accordance with Subsection 3.3.4.2 ..." to "... presented in Table 3.3-3, Subsection 3.3.4.2 ..." Editorial: Correct grammatical error and clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-29	Subsection 3.7.2.4 2 nd Paragraph, 8 th Sentence, 9 th Sentence	Delete: “The COL Applicant using a lumped parameter model for SSI analysis is to use SSI damping based on the characteristics of site-specific subgrade conditions. These values cannot exceed the values specified by ASCE 4-98 (Reference 3.7-9) code.” Editorial: Provided consistency of COL Applicant action and wording
3.7-29	Subsection 3.7.2.4 6 th Paragraph, 1 st Sentence	Change: “It is the responsibility of the COL Applicant to take into account site-specific conditions ...” to “The SSI analyses take into account site-specific conditions ...” Editorial: State as process requirements opposed to responsibilities
3.7-29	Subsection 3.7.2.4 6 th Paragraph, 1 st Sentence	Insert new sentence behind 1 st sentence: “Using a lumped parameter model, SSI damping is based on the characteristics of the site-specific subgrade conditions, not to exceed the values specified by the ASCE 4-98 code (Reference 3.7-9).”
3.7-29	Subsection 3.7.2.4 7 th Paragraph	Delete in its entirety: “SSI effects is also ... ▪ Seismic category I UHSRS” Editorial: Transfer scope to Subsection 3.7.2.4.1 to align with subject matter

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)</p>	<p align="center">Description of Change</p>
<p>3.7-30</p>	<p>Subsection 3.7.2.4.1 1st & 2nd Paragraphs</p>	<p>Change: “A COL Applicant referencing the US-APWR standard design is required to perform a site-specific SSI analysis for the R/B-PCCV-containment internal structure and PS/Bs structures utilizing the program ACS-SASSI SSI Version 2.2 (Reference 3.7-17) which contains time history input incoherence function capability. The SSI analysis using SASSI is required in order to confirm that site-specific effects are enveloped by the standard design.</p> <p>Note: After the SASSI analysis is first performed by the COL Applicant for a specific site, subsequent COLA for other sites may be able to forego SASSI analyses if the FIRS and GMRS derived for those subsequent sites are much smaller than the US-APWR standard plant CSDRS, and if the subsequent COL Applicant can also provide justification through comparison of site-specific geological and seismological characteristics.” to “The COL Applicant referencing the US-APWR standard design is required to perform a site-specific SSI analysis for the R/B-PCCV-containment internal structure utilizing the program ACS SASSI SSI Version 2.2 (Reference 3.7-17) which contains time history input incoherence function capability. The SSI analysis using SASSI is required in order to confirm that site-specific effects are enveloped by the standard design. After the SASSI analysis is first performed for a specific unit, subsequent COLAs for other units may be able to forego SASSI analyses if the FIRS and GMRS derived for those subsequent units are much smaller than the US-APWR standard plant CSDRS, and if the subsequent unit can also provide justification through comparison of site-specific geological and seismological characteristics.”</p> <p>Editorial: Provided consistent COL Applicant action and wording</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.7-30	Subsection 3.7.2.4.1 1 st Paragraph	Insert new paragraph after 1 st paragraph: SSI effects are also considered by the COL Applicant in site-specific seismic design of any seismic category I and II structures that are not included in the US-APWR standard plant. Consideration of structure-to-structure interaction is discussed in Subsection 3.7.2.8. The site-specific SSI analysis is performed for buildings and structures including, but not limited to, the following: <ul style="list-style-type: none"> • Seismic category I ESWPT • Seismic category I PSFSV • Seismic category I UHSRS Editorial: Transfer scope from Subsection 3.7.2.4 to align with subject matter
3.7-30	Subsection 3.7.2.4.1 5 th Paragraph, 3 rd Sentence	Change: "Site-specific SSI analyses must account for ..." to "Site-specific SSI analyses account for ..." Editorial: State as process opposed to future action
3.7-31	Subsection 3.7.2.4.1 6 th Paragraph, 3 rd Sentence	Change: "The COL Applicant will institute dynamic testing ..." to "The COL Applicant is to institute dynamic testing ..." Editorial: State as requirement opposed to action
3.7-31	Subsection 3.7.2.4.1 6 th Paragraph, 5 th Sentence	Change: "The COL Applicant can use degradation curves that are published in the literature after demonstrating ..." to "Degradation curves that are published in literature can be used after demonstrating ..." Editorial: Remove superfluous words and clarify scope of statement
3.7-31	Subsection 3.7.2.4.1 8 th Paragraph, 1 st Sentence	Change: "... those used for the US-APWR design certification process." to "... those used for the US-APWR standard plant design." Editorial: Clarify scope of statement
3.7-31	Subsection 3.7.2.4.1 8 th Paragraph, 4 th Sentence	Change: "In order to verify the converted structural model, the COL Applicant is to perform a site-specific SSI analysis with hard rock site ..." to "In order to verify the converted structural model, a site-specific SSI analysis is performed with hard rock site ..." Editorial: State as process opposed to responsibility

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-32	Subsection 3.7.2.4.1 9 th Paragraph, 3 rd Sentence	Change: "The COL Applicant must verify ..." to "The COL Applicant is to verify ..." Editorial: State as process opposed to future activity
3.7-32	Subsection 3.7.2.4.1 10 th Paragraph, 1 st Sentence	Delete in its entirety: "It is the responsibility ... of the US-APWR standard design." Editorial: Remove redundant statement also in Section 3.7, 4 th Paragraph, 1 st Sentence
3.7-32	Subsection 3.7.2.4.1 10 th Paragraph, 1 st Sentence	Change: "The analyses must use input ..." to "The analyses use input ..." Editorial: State as process opposed to future action
3.7-32	Subsection 3.7.2.4.1 10 th Paragraph, 2 nd Sentence	Change: "... subgrade properties must be considered ..." to "... subgrade properties are considered ..." Editorial: State as process opposed to future action
3.7-32	Subsection 3.7.2.4.1 11 th Paragraph, 1 st Sentence	Change: "... values in Table 3.7.3-1(b) must be assigned ..." to "... values in Table 3.7.3-1(b) are assigned ..." Editorial: State as process opposed to future action
3.7-32	Subsection 3.7.2.4.1 12 th Paragraph, 1 st Sentence	Change: "...US-APWR standard design if the COL Applicant can demonstrate that ..." to "... US-APWR standard design if it is demonstrated that ..." Editorial: Clarify scope of statement
3.7-33	Subsection 3.7.2.5 2 nd Paragraph, 3 rd Sentence	Change: "... higher modes of vibration are important and have to be considered, ..." to "... higher modes of vibration have to be considered, ..." Editorial: Remove superfluous words
3.7-33	Subsection 3.7.2.5 5 th Paragraph, 4 th Sentence	Change: "All design ISRS for the US-APWR are provided in Appendix 3I." to "Design ISRS for the R/B-PCCV-containment internal structure are provided in Appendix 3I." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-33 & 3.7-34	Subsection 3.7.2.5 6 th Paragraph	Change in its entirety to: "ISRS are not required for non-seismic category I building structures, such as the AC/B, A/B and T/B, since no safety-related systems and components are present in non-seismic category I buildings and structures. The design, installation, and mounting of non safety-related systems and components in these buildings are based on the applicable site-specific building codes and standards." Editorial: Clarify scope of statement and remove superfluous words
3.7-35	Subsection 3.7.2.7 2 nd Paragraph, 1 st Sentence	Change: "... of other seismic category I and II systems and subsystems, ..." to "... of other seismic category I and seismic category II systems and subsystems, ..." Editorial: Clarify scope of statement
3.7-35	Subsection 3.7.2.7 3 rd Paragraph, 1 st Sentence	Change: "...as permitted in Revision 2 of RG 1.92 (Reference 3.7-28)." to "... as permitted in of RG 1.92 (Reference 3.7-27)." Editorial: Correct typographical error
3.7-35	Subsection 3.7.2.7 6 th Paragraph, 1 st Sentence	Change: "... closely spaced modes' and coupling factor." to "... closely spaced modes times appropriate coupling factors." Editorial: Clarify scope of statement
3.7-37	Subsection 3.7.2.7.1 1 st Paragraph, 4 th Sentence	Change: "...program PIPESTRESS (Reference 3.7-29) and endorsed in SRP 3.7.2 (Reference 3.7-16)." to "...program PIPESTRESS (Reference 3.7-29)." Editorial: Correct reference
3.7-37	Subsection 3.7.2.7.1 Equations	Change: "S" to "Σ" in the three equations and in the 3 rd Paragraph. Editorial: Correct typographical error
3.7-38	Subsection 3.7.2.8 5 th Paragraph, 1 st Sentence	Change: "With respect to the phenomenon of coupling of the dynamic response of adjacent ..." to "With respect to the coupling of the dynamic responses of adjacent ..." Editorial: Remove superfluous words and correct grammatical error

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-38	Subsection 3.7.2.8 5 th Paragraph, 5 th Sentence	Change: "If the specific site conditions are such that structure-to-structure interaction can be important for the seismic response of particular US-APWR seismic category I structure, it is responsibility of the COL Applicant to further address structure-to-structure interaction." to "It is the responsibility of the COL Applicant to further address structure-to-structure interaction if the specific site conditions can be important for the seismic response of particular US-APWR seismic category I structures, or may result in exceedance of assumed pressure distributions used for the US-APWR standard plant design." Editorial: Clarify scope of subject and correct grammatical errors
3.7-39	Subsection 3.7.2.8 7 th Paragraph	Change: "It is the responsibility of the COL Applicant ... used for the US-APWR standard plant design." to "The COL Applicant is to assure that the design or location of any site-specific seismic category I SSCs, for example buried yard piping or duct banks, will not expose those SSCs to possible impact due to the failure or collapse of non-seismic category I structures, or with any other SSCs that could potentially impact, such as heavy haul route loads, transmission towers, non safety-related storage tanks, etc. Alternately, site-specific seismic category I SSCs are designed for impact loads due to postulated failure of the non-seismic category I SSCs." Editorial: Original paragraph scope is transferred to statement in Subsection 3.7.2.8, 5 th Paragraph, 5 th Sentence, and new paragraph scope is transferred from statements in following subsections
3.7-39	Subsection 3.7.2.8.1 2 nd Paragraph, 1 st Bullet	Change: "... (Reference 3.7-30) as applied to a Zone 3 structure with an Importance Factor of 1.0." to "... (Reference 3.7-30) with an Importance Factor of 1.0." Technical: Allow for the site-specific seismic zone
3.7-39	Subsection 3.7.2.8.1 3 rd Paragraph, 1 st Sentence	Delete in its entirety: "It is the responsibility ...for the site specific conditions." Editorial: Redundant statement to sixth paragraph of Subsection 3.7.2.3.1
3.7-39	Subsection 3.7.2.8.2 1 st Paragraph, 2 nd Sentence	Change: "For the US-APWR standard plant, the T/B..." to "The T/B..." Editorial: Remove superfluous information

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-39	Subsection 3.7.2.8.2 1 st Paragraph, 3 rd Sentence	Change: "The expansion joints must be sized by the COL Applicant to prevent ..." to "The expansion joints are sized to prevent ..." Editorial: State as process opposed to future action
3.7-40	Subsection 3.7.2.8.2 3 rd Paragraph, 1 st Sentence	Delete in its entirety: "It is the responsibility ...for the site specific conditions." Editorial: Redundant statement to sixth paragraph of Subsection 3.7.2.3.1
3.7-40	Subsection 3.7.2.8.2 3 rd Paragraph, 2 nd Sentence	Delete in its entirety: "Additionally, if necessary, the COL Applicant ... without impairment of function and integrity." Editorial: Scope is transferred to statement in Subsection 3.7.2.8, 7 th paragraph
3.7-40	Subsection 3.7.2.8.3 1 st Paragraph, 1 st Sentence	Delete in its entirety: "The ESWPT design is ... as a seismic category I structure." Editorial: Remove redundant statement also in Section 3.7.2.3.1, 6 th Paragraph
3.7-40	Subsection 3.7.2.8.3 1 st Paragraph, 2 nd Sentence	Change: "... with a compressible filler material and/or air gap as determined by the COL Applicant." to "... with a compressible filler material and/or air gap." Editorial: Remove superfluous words
3.7-40 & 3.7-41	Subsection 3.7.2.8.4 1 st Paragraph, 1 st Sentece	Change: "The A/B is structurally designed as seismic category II and, as such, the integrity of the A/B will not be impacted by a design basis seismic event; that is, the A/B will not fail or collapse due to seismic loading." to "The A/B contains the US-APWR standard plant radioactive waste processing facility. This facility is designated as Classification RW-IIa in accordance with RG 1.143 (Reference 3.7-19). However, the A/B is designated as seismic category II. The seismic, wind, tornado, and flood design requirements for seismic category II are more stringent than those of Classificaton RW-IIa as outlined in RG 1.143 (Reference 3.7-19)." Editorial: Clarify scope of statement
3.7-41	Subsection 3.7.2.8.4 1 st Paragraph, 7 th Sentence	Change: "... interaction is determined by the COL Applicant by considering, ... applicable code method by the COL Applicant." to "... interaction is determined by considering ... applicable code method." Editorial: Remove superfluous words

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.7-41	Subsection 3.7.2.8.4 3 rd Paragraph, 1 st Sentence	Delete in its entirety: "It is the responsibility ...for the site specific conditions." Editorial: Redundant statement to sixth paragraph of Subsection 3.7.2.3.1
3.7-41	Subsection 3.7.2.8.4 3 rd Paragraph, 2 nd Sentence	Delete in its entirety: "Additionally, if necessary, the COL Applicant ... without impairment of function and integrity." Editorial: Scope is transferred to statement in Subsection 3.7.2.8, 7 th paragraph
3.7-41	Subsection 3.7.2.8.5 1 st Paragraph, 3 rd Sentence	Delete in its entirety: "As discussed previously, it is ... does not contact those buildings in a seismic event." Editorial: Remove redundant statement also in Subsections 3.7.2.8.2 & 3.7.2.8.4
3.7-41	Subsection 3.7.2.8.6 1 st Paragraph, 1 st Sentence	Change: "... and their design are based on a separate Technical Report ..." to "... and their design is described in a separate Technical Report ..." Editorial: Clarify scope of statement
3.7-41	Subsection 3.7.2.8.6 1 st Paragraph, 6 th Sentence	Delete in its entirety: "The COL Applicant is to assure that the PS/Bs do not contact the T/B or A/B by using adequately sized expansion joints." Editorial: Remove redundant statement also in Subsections 3.7.2.8.2 & 3.7.2.8.4
3.7-41	Subsection 3.7.2.8.6 1 st Paragraph, 7 th Sentence	Change: "The expansion joints sized by the COL Applicant are to be determined by considering, ..." to "The expansion joints are to be determined by considering, ..." Editorial: Remove superfluous words
3.7-42	Subsection 3.7.2.8.6 2 nd Paragraph	Delete in its entirety: "It is the responsibility of the COL Applicant ... prevents contact with the PS/Bs as explained previously." Editorial: Remove redundant statement also in Subsections 3.7.2.8.2 through 3.7.2.8.4
3.7-42	Subsection 3.7.2.9, 3 rd Paragraph, 1 st Sentence	Change: "... the seismic analyses includes four generic ..." to "... the seismic analyses of standard plant seismic category I buildings include four generic ..." Editorial: Clarify scope of statement
3.7-42	Subsection 3.7.2.10, 1 st Paragraph, 1 st Sentence	Change: "The US-APWR standard plant design ..." to "The plant design ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-42	Subsection 3.7.2.11, 1 st Paragraph, 1 st Sentence	Change: “The seismic analyses of US-APWR seismic category I ...” to “The seismic analyses of seismic category I ...” Editorial: Clarify scope of statement
3.7-43	Subsection 3.7.2.12 2 nd Paragraph, 2 nd Sentence	Change: “...target response spectra (the CSDRS described in Subsection 3.7.1.1) to assure ...” to “... target response spectra to assure ...” Editorial: Clarify scope of statement
3.7-43	Subsection 3.7.2.13 1 st Paragraph	Change: “The US-APWR standard plant design does not employ the use of dams. It is the responsibility of the COL Applicant ... that may be required onsite.” to “The US-APWR standard plant design does include dams. It is the responsibility of the COL Applicant ... that may be required.” Editorial: Clarify scope of statement
3.7-43	Subsection 3.7.2.14 1 st Paragraph, 2 nd Sentence	Change: “If the COL Applicant chooses the OBE to be a value greater than 1/3 ...” to “If an OBE value is chosen to be greater than 1/3 ...” Editorial: Clarify scope of statement and remove superfluous words
3.7-44	Subsection 3.7.2.14 2 nd Paragraph, 1 st Sentence	Change: “... design is based on the precept, as discussed in ...” to “... design is based on the assumption, as discussed in ...” Editorial: Clarify scope of statement
3.7-44	Subsection 3.7.2.14 2 nd Paragraph, 2 nd Sentence	Change: “... US-APWR standard plant and site-specifically designed seismic category I structures, the COL Applicant must perform site-specific investigations of the supporting media to verify that ...” to “... US-APWR standard plant and site-specific seismic category I structures, site-specific investigations are performed of the supporting media as described in Subsection 2.5.4.8 to verify that ...” Editorial: Clarify scope of statement and remove superfluous words
3.7-44	Subsection 3.7.2.14 2 nd Paragraph, 3 rd Sentence	Delete in its entirety: “See Subsection 3.7.1.3 ... structures supporting media.” Editorial: Remove redundant and superfluous statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-44	Subsection 3.7.2.14 2 nd Paragraph, 3 rd Sentence	Change: "The site-specific factor of safety against liquefaction determined by the COL Applicant will confirms the dynamic stability ..." to "The site-specific factor of safety against liquefaction is determined to confirm the dynamic stability ..." Editorial: Clarify scope of statement and remove superfluous words
3.7-44	Subsection 3.7.3 1 st Paragraph, 4 th Sentence	Change: "... civil structure-related subsystems may include but are not limited to the following:" to "... civil structure-related subsystems include." Editorial: Clarify scope of statement
3.7-45	Subsection 3.7.3.1.1 1 st Paragraph, 1 st Sentence	Change: "... static load method involves the equivalent horizontal ..." to "... static load method involves the use of equivalent horizontal ..." Editorial: Clarify scope of statement
3.7-46	Subsection 3.7.3.1.3 1 st Paragraph, 1 st Sentence	Change: "... other structural subsystems that are multiple span models." to "... other structural subsystems consisting of multiple spans." Editorial: Clarify scope of statement
3.7-47	Subsection 3.7.3.1.6 1 st Paragraph, 1 st & 2 nd Sentences	Change: "... of the broadened spectra method, as described below. Determine the natural frequencies ..." to "... of the broadened spectra method. It determines the natural frequencies ..." Editorial: Clarify scope of statements
3.7-47	Subsection 3.7.3.1.6 3 rd Paragraph, 1 st Sentence	Change: "The system is then evaluated ..." to "The system is evaluated ..." Editorial: State as process opposed to future action
3.7-50	Subsection 3.7.3.3 4 th Paragraph	Change: "Piping systems analyzed by the uniform envelope response spectra method, including coupled equipment and valves, are evaluated ... as described in Table 3.7.3-1. The seismic analysis of piping and other mechanical subsystems is addressed in further detail in Sections 3.9 and 3.12." to "Piping systems are analyzed for SSE using 4% damping. Alternatively, frequency-dependent damping values may be utilized as noted and described in Tables 3.7.3-1(a) and 3.7.3-1(b). The seismic analysis of piping and other mechanical subsystems is addressed in further detail in Sections 3.9 and 3.12." Editorial: Maintain consistency with Subsection 3.12.5.4

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-51	Subsection 3.7.3.4 2 nd Bullet, 3 rd Sentence	Change: “Not used for piping systems.” to “This method is not used for piping systems.” Editorial: Clarify scope of statement
3.7-51	Subsection 3.7.3.6 1 st Paragraph, 1 st Sentence	Change: “The US-APWR standard plant design ...” to “The plant design ...” Editorial: Clarify scope of statement
3.7-51	Subsection 3.7.3.7 1 st Paragraph, 2 nd Sentence	Change: “Physical space is reserved and planned to provide an ESWPT, designed as a site-specific seismic category I structure by the COL Applicant referencing the US-APWR, and passing underneath ...” to “Physical space is reserved and planned to provide a site-specific seismic category I ESWPT passing underneath ...” Editorial: Clarify scope of statement and remove superfluous words
3.7-51	Subsection 3.7.3.7 2 nd Paragraph, 3 rd Sentence	Change: “... top of the ESWPT and the COL Applicant may need to utilize engineered structural backfill or concrete backfill beneath the tunnel also.” to “... top of the ESWPT, and engineered structural or concrete backfill may be utilized beneath the tunnel as well.” Editorial: Remove superfluous words and clarify scope of statement
3.7-51	Subsection 3.7.3.7 2 nd Paragraph, 4 th Sentence	Change: “... requirements apply to the COL Applicant in performing the site-specific design ...” to “... requirements apply to the site-specific design ...” Editorial: Remove superfluous words
3.7-52	Subsection 3.7.3.7 2 nd Paragraph, 1 st Bullet, 3 rd Sentence	Change: “... general requirements described for the R/B-PCCV-containment internal structure, and east and west PS/Bs SASSI analysis ...” to “...general requirements described for the R/B-PCCV-containment internal structure SASSI analysis ...” Technical: The SASSI analysis of one structure (R/B-PCCV-containment internal structure) is sufficient to confirm the effects on SSI analysis by the difference between lumped parameter model and SASSI model

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-52	Subsection 3.7.3.8 1 st Paragraph	Change: "The US-APWR standard plant design does not employ the use of dams. It is the responsibility of the COL Applicant to verify the site-independent standard design by performing seismic analysis that consider ... that may be required onsite." to "The US-APWR standard plant design does include dams. Verification of the site-independent standard design is performed during seismic analyses that consider ... that may be required." Editorial: Clarify scope of statement
3.7-53	Subsection 3.7.4.1 1 st Paragraph, 4 th Sentence	Change: "It is the responsibility of the COL Applicant to verify the site-independent standard design by performing seismic analysis that consider ..." to "Verification of the site-independent standard design is performed during seismic analyses that consider ..." Editorial: Clarify scope of statement
3.7-53	Subsection 3.7.4.1 2 nd Paragraph	Change: "The criteria ... on the site-specific OBE. As described in Subsection 3.7.1.1, it is the responsibility of the COL Applicant to define the site-specific OBE. The conditions that require a shut down of the US-APWR plant are defined by the OBE ISRS at the locations described below in Subsection 3.7.4.2. It is the responsibility of the COL Applicant to develop site-specific FIRS at the locations specified in Subsection 3.7.4.2 by performing site-specific seismic response analyses that use, as input, the site-specific OBE design motion. The measured response spectra at each of the five instrumentation locations in Subsection 3.7.4.2..." to "The criteria ... on the site-specific OBE. The conditions that require a shutdown of the US-APWR plant are defined by the OBE ISRS at the locations of seismic instrumentation. Site-specific FIRS are developed at the locations of seismic instrumentation by performing site-specific seismic response analyses that use, as input, the site-specific OBE design motion. The measured response spectra at each of the instrumentation locations in Subsection 3.7.4.2 ..." Editorial: Provide consistency

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-53	Subsection 3.7.4.1 3 rd Paragraph, 1 st Sentence	Change: "It is incumbent upon the COL Applicant ... and requirements specific to the site." to "The locations of seismic monitors for the US-APWR standard plant are provided in Subsection 3.7.4.2. The COL Applicant is to verify the site-specific applicability of these monitors, and determine if there is a need for the installation of additional instrumentation for the measurement of the free-field ground motion based on conditions and requirements specific to the site." Editorial: Clarify scope of statement
3.7-53	Subsection 3.7.4.1 3 rd Paragraph, 3 rd Sentence	Change: "... monitoring the free-field ground motion, defined as the earthquake motion at the ground surface that is free of any influence of nearby structures, is not specifically ..." to "... monitoring the free-field ground motion is not specifically ..." Editorial: Remove redundant statement also in Subsection 3.7.1.1, Site-Specific GMRS, 1 st Paragraph, 2 nd Sentence
3.7-53	Subsection 3.7.4.1 4 th Paragraph, 1 st & 2 nd Sentences	Delete in its entirety: "However, the COL Applicant ... should be followed as explained below." Editorial: Remove redundant and superfluous statements
3.7-53	Subsection 3.7.4.1 4 th Paragraph, 1 st Sentence	Change: "The calculation of the CAV would be performed in the manner ..." to "The calculation of the CAV is performed in the manner ..." Editorial: State as process opposed to future action
3.7-53	Subsection 3.7.4.1 4 th Paragraph, 3 rd Sentence	Change: "In accordance with RG 1.166 (Reference 3.7-42), ..." to "In accordance with RG 1.166 (Reference 3.7-41), ..." Editorial: Correct typographical error
3.7-55	Subsection 3.7.4.2 5 th Paragraph, 2 nd Sentence	Change: "However, the design and location is in accordance with RG 1.12 (Reference 3.7-40) such that the seismic instrumentation:" to "However, its design and location are in accordance with RG 1.12 (Reference 3.7-40), which requires that the seismic instrumentation:" Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-55	Subsection 3.7.4.3 1 st Paragraph, 3 rd Sentence	Change: "It is the responsibility of the COL Applicant ... seismic instrumentation at a multiple-unit site." to "The COL Applicant is to determine from the site-specific geological and seismological conditions if multiple US-APWR units at a site will have essentially the same seismic response, and based on that determination, to choose if more than one unit is provided with seismic instrumentation at a multiple-unit site." Editorial: Clarify scope of statement and remove superfluous words
3.7-57	Subsection 3.7.4.5 4 th Paragraph, 1 st Sentence	Change: "... to develop site-specific instrument surveillance programs including calibration and testing, ..." to "... to develop a site-specific instrument surveillance program including calibration and testing that complements the US-APWR seismic instrumentation program, ..." Editorial: Clarify scope of statement
3.7-57	Subsection 3.7.5 COL 3.7(1)	Change: " <i>The COL Applicant is to assure that the ... of the CSDRS as defined in Subsection 3.7.1.1 is less than or equal to 0.30 g.</i> " to " <i>The COL Applicant is to confirm that the... of the CSDRS is less than or equal to 0.3 g.</i> " Editorial: Clarify scope of statement and remove superfluous words
3.7-57	Subsection 3.7.5 COL 3.7(2)	Change in its entirety to: " <i>The COL Applicant is to perform an analysis of the US-APWR standard plant seismic category I design to verify that the site-specific FIRS at the basemat level control point of the CSDRS are enveloped by the site-independent CSDRS.</i> " Editorial: Align with Subsection 3.7.1.1 text
3.7-57	Subsection 3.7.5 COL 3.7(3)	Change in its entirety to: " <i>It is the responsibility of the COL Applicant to develop analytical models appropriate for the seismic analysis of buildings and structures that are designed on a site-specific basis including, but not limited to, the following:</i> <ul style="list-style-type: none"> • <i>PSFSVs (seismic category I)</i> • <i>ESWPT (seismic category I)</i> • <i>UHSRS (seismic category I)</i> Editorial: Align with Subsection 3.7.2.3.1, and move secondary scope items to COL3.7(23) and COL3.7(25)

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-57	Subsection 3.7.5 COL 3.7(4)	Change in its entirety to: <i>“To prevent non-conservative results, the COL Applicant is to review the resulting level of seismic response and determine appropriate damping values for the site-specific calculations of ISRS that serve as input for the seismic analysis of seismic category I and seismic category II subsystems.”</i> Editorial: Align with Subsection 3.7.1.2 text
3.7-57	Subsection 3.7.5 COL 3.7(5)	Change in its entirety to: <i>“The COL Applicant is to assure that the horizontal FIRS defining the site-specific SSE ground motion at the bottom of seismic category I or II basemats envelope the minimum response spectra required by 10 CFR 50, Appendix S, and the site-specific response spectra obtained from the response analysis.”</i> Editorial: As stated in Subsection 3.7.1.1
3.7-58	Subsection 3.7.5 COL 3.7(6)	Change in its entirety to: <i>“The COL Applicant is to develop site-specific GMRS and FIRS by an analysis methodology, which accounts for the upward propagation of the GMRS. The FIRS are compared to the CSDRS to assure that the US-APWR standard plant seismic design is valid for a particular site. If the FIRS are not enveloped by the CSDRS, the US-APWR standard plant seismic design is modified as part of the COLA in order to validate the US-APWR for installation at that site.”</i> Editorial: Clarify scope by moving second COL Applicant statement to new COL3.7(24)
3.7-58	Subsection 3.7.5 COL 3.7(7)	Change in its entirety to: <i>“The COL Applicant is to determine the allowable dynamic bearing capacity based on site conditions, and to evaluate the bearing load to this capacity.”</i> Editorial: Align with Subsection 3.7.1.3 text
3.7-58	Subsection 3.7.5 COL 3.7(8)	Change in its entirety to: <i>“The COL Applicant is to institute dynamic testing to evaluate the strain-dependent variation of the material dynamic properties for site materials with initial shear wave velocities below 3,500 ft/s.”</i> Editorial: Align with Subsection 3.7.2.4.1 text

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-58	Subsection 3.7.5 COL 3.7(9)	Change: "The COL Applicant is to assure ... collapse of the NS AC/B as discussed in Subsection 3.7.2.8, or with any other ..." to <i>"The COL Applicant is to assure that the design or location of any site-specific seismic category I SSCs, for example buried yard piping or duct banks, will not expose those SSCs to possible impact due to the failure or collapse of non-seismic category I structures, or with any other SSCs that could potentially impact, such as heavy haul route loads, transmission towers, non safety-related storage tanks, etc."</i> Editorial: Align with Subsection 3.7.2.8 text
3.7-58	Subsection 3.7.5 COL 3.7(10)	Change in its entirety to: <i>"It is the responsibility of the COL Applicant to further address structure-to-structure interaction if the specific site conditions can be important for the seismic response of particular US-APWR seismic category I structures, or may result in exceedance of assumed pressure distributions used for the US-APWR standard plant design."</i> Technical: Statement expanded to include importance for any seismic category I structure opposed to limiting to T/B, A/B and AC/B impacts to seismic category I SSCs
3.7-58	Subsection 3.7.5 COL 3.7(11)	Change in its entirety to: <i>"It is the responsibility of the COL Applicant to confirm the masses and frequencies of the PCCV polar crane and fuel handling crane and to determine if coupled site-specific analyses are required."</i> Editorial: Align with Subsection 3.7.2.3.4 text
3.7-58	Subsection 3.7.5 COL 3.7(14)	Change: <i>"...and based on that determination, it is the responsibility of the COL Applicant to choose if ..."</i> to <i>"... and based on that determination, choose if ..."</i> Editorial: Align with Subsection 3.7.4.3 text
3.7-59	Subsection 3.7.5 COL 3.7(15)	Change in its entirety to: <i>"The COL Applicant is to assure that a time-history analyzer/recorder is provided which has the capability to provide pre-event recording time of 3 seconds minimum and post-event recording time of 5 seconds minimum, and to record at least 25 minutes of sensed motion."</i> Editorial: Align with Subsection 3.7.4.2 text

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-59	Subsection 3.7.5 COL 3.7(16)	Change in its entirety to: <i>“The COL Applicant is to determine if there is a need for the installation of instrumentation, in addition to the US-APWR standard plant seismic instrumentation program, for the measurement of the free-field ground motion based on conditions and requirements specific to the site.”</i> Editorial: Align with Subsection 3.7.4.1 text
3.7-59	Subsection 3.7.5 COL 3.7(17)	Change: <i>“The COL Applicant ... in Subsection 3.7.4.5.”</i> to <i>“Deleted”</i> Editorial: Scope is captured by COL 3.7(18)
3.7-59	Subsection 3.7.5 COL 3.7(18)	Change: <i>“The COL Applicant is to develop site-specific instrumentation surveillance programs including calibration and testing, and develop site-specific ...”</i> to <i>“It is the responsibility of the COL Applicant to develop site-specific instrument surveillance programs including calibration and testing that complements the US-APWR seismic instrumentation program, and to develop site-specific ...”</i> Editorial: Align with Subsection 3.7.4.5 text
3.7-59	Subsection 3.7.5 COL 3.7(19)	Change: <i>“The COL Applicant is to provide the details of the ...”</i> to <i>“It is the responsibility of the COL Applicant to provide the site-specific details of the ...”</i> Editorial: Align with Subsection 3.7.4.6 text
3.7-59	Subsection 3.7.5 COL 3.7(19)	Add new items below COL 3.7(19): <i>“COL 3.7(20) The COL Applicant is to validate the site-independent seismic design of the standard plant for site-specific conditions, including geological, seismological, and geophysical characteristics, and to develop the site-specific GMRS as free-field outcrop motions on the uppermost in-situ competent material.</i> <i>COL3.7(21) The COL Applicant is responsible for the seismic design of those seismic category I and seismic category II SSCs that are not part of the US-APWR standard plant.”</i> Editorial: Align with Section 3.7 text

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-59	Subsection 3.7.5 COL 3.7(19)	<p>Add new item below COL 3.7(19):</p> <p><i>“COL3.7(22) The COL Applicant is to perform site-specific seismic analyses, including SSI analysis which considers seismic wave transmission incoherence and analysis of the CAV of the seismic input motion, in order to determine if high-frequency exceedances of the CSDRS could be transmitted to SSCs in the plant superstructure with potentially damaging effects.”</i></p> <p>Editorial: Align with Subsection 3.7.1.1 text</p>
3.7-59	Subsection 3.7.5 COL 3.7(19)	<p>Add new item below COL 3.7(19):</p> <p><i>“COL3.7(23) The COL Applicant is to verify that the results of the site-specific SSI analysis for the broadened ISRS and basement walls lateral soil pressures are enveloped by the US-APWR standard design.”</i></p> <p>Editorial: Secondary scope transferred from COL3.7(3)</p>
3.7-60	Subsection 3.7.5 COL 3.7(19)	<p>Add new item below COL 3.7(19):</p> <p><i>“COL 3.7(24) The COL Applicant is to verify that the site-specific ratios V/A and AD/V^2 (A, V, D, are PGA, ground velocity, and ground displacement, respectively) are consistent with characteristic values for the magnitude and distance of the appropriate controlling events defining the site-specific uniform hazard response spectra.”</i></p> <p>Editorial: Secondary scope transferred from COL3.7(6)</p>
3.7-60	Subsection 3.7.5 COL 3.7(19)	<p>Add new item below COL3.7(19):</p> <p><i>“COL3.7 (25) The COL Applicant referencing the US-APWR standard design is required to perform a site-specific SSI analysis for the R/B-PCCV-containment internal structure utilizing the program ACS-SASSI SSI Version 2.2 (Reference 3.7-17) which contains time history input incoherence function capability. The SSI analysis using SASSI is required in order to confirm that site-specific effects are enveloped by the standard design. After the SASSI analysis is first performed for a specific unit, subsequent COLAs for other units may be able to forego SASSI analyses if the FIRS and GMRS derived for those subsequent units are much smaller than the US-APWR standard plant CSDRS, and if the subsequent unit can also provide justification through comparison of site-specific geological and seismological characteristics.”</i></p> <p>Editorial: Secondary scope transferred from COL3.7(3)</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-60	Subsection 3.7.5 COL 3.7(19)	<p>Add new item below COL3.7(19):</p> <p><i>“COL3.7(26) SSI effects are also considered by the COL Applicant in site-specific seismic design of any seismic category I and II structures that are not included in the US-APWR standard plant. Consideration of structure-to-structure interaction is discussed in Subsection 3.7.2.8. The site-specific SSI analysis is performed for buildings and structures including, but not limited to, to the following:</i></p> <ul style="list-style-type: none"> • <i>Seismic category I ESWPT</i> • <i>Seismic category I PSFSV</i> • <i>Seismic category I UHSRS”</i> <p>Editorial: Align with Subsection 3.7.2.4.1 text</p>
3.7-60	Subsection 3.7.5 COL 3.7(19)	<p>Add new item below COL3.7(19):</p> <p><i>“COL3.7(27) It is the responsibility of the COL Applicant to perform any site-specific seismic analysis for dams that may be required.</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.7-60	Subsection 3.7.5 COL 3.7(19)	<p>Add new item below COL3.7(19):</p> <p><i>“COL3.7(28) The overall basemat dimensions, basemat embedment depths, and maximum height of the US-APWR R/B, PCCV, and containment internal structure on their common basemat are given in Table 3.7.1-3 and as updated by the COL Applicant to include site-specific seismic category I structures.”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.7-60	Subsection 3.7.5 COL 3.7(19)	<p>Add new item below COL3.7(19):</p> <p><i>“COL3.7(29) Table 3.7.2-1, as updated by the COL Applicant to include site-specific seismic category I structures, presents a summary of dynamic analysis and combination techniques including types of models and computer programs used, seismic analysis methods, and method of combination for the three directional components for the seismic analysis of the US-APWR standard plant seismic category I buildings and structures.”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-61	Subsection 3.7.5 COL 3.7(19)	Add new item below COL3.7(19): “COL 3.7(30) The COL Applicant is to provide site-specific design ground motion time histories and durations of motion.” Editorial: Provided consistent COL Applicant action and wording
3.7-62	Subsection 3.7.6 Reference 3.7-18	Change: “... <u>Lumped Mass Stick Model</u> , MHI Technical Report, Later.” to “Lumped Mass Stick Model, MUAP-08005, Mitsubishi Heavy Industries, Ltd., April 2008.” Editorial: Update reference information
3.7-63	Subsection 3.7.6 Reference 3.7-33	Change: “Seismic Design and Analysis of Power Source Buildings, MHI Technical Report, Later.” to “Enhanced Information for PS/B Design, MUAP-08002, Mitsubishi Heavy Industries, Ltd., February 2008.” Editorial: To correctly identify report title and number
3.7-67	Table 3.7.1-3 4 th Row, 1 st Column	Add in new cell below: “PS/B” Editorial: Add information for Major Dimensions of Seismic Category I Structures
3.7-67	Table 3.7.1-3 4 th Row, 2 nd Column	Add in new cell below: “37’-3” ” Editorial: Add information for Major Dimensions of Seismic Category I Structures
3.7-67	Table 3.7.1-3 4 th Row, 3 rd Column	Add in new cell below: “71’ x 117’ ” Editorial: Add information for Major Dimensions of Seismic Category I Structures
3.7-67	Table 3.7.1-3 4 th Row, 4 th Column	Add in new cell below: “51’-11” ” Editorial: Add information for Major Dimensions of Seismic Category I Structures
3.7-73	Table 3.7.3-1(a) 7 th – 10 th Rows	Replace four rows, 7-10: “Piping systems ... RCL (5) 4” with single row, 7: “Piping systems ⁽¹⁾4” Editorial: Maintain consistency with Subsection 3.12.5.4
3.7-73	Table 3.7.3-1(a) 11 th Row	Delete: “Control rod drive mechanisms (%) 5” Editorial: Remove extraneous information
3.7-73	Table 3.7.3-1(a) Notes	Deleted notes in lieu of inclusion after Table 3.7.3-1(b) Editorial: Consolidate repetitive notes
3.7-73	Table 3.7.3-1(b) 7 th – 10 th Rows	Replace four rows, 7-10: “Piping systems ... RCL (5) 4” with single row, 7: “Piping systems ⁽¹⁾3” Editorial: Maintain consistency with Subsection 3.12.5.4

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.7-73	Table 3.7.3-1(b) 11 th Row	Delete: "Control rod drive mechanisms (%) 3" Editorial: Remove extraneous information
3.7-73	Table 3.7.3-1(b) Notes	Expanded to include scope of Table 3.7.3-1(a), and changed Note 1 in its entirety Editorial: Maintain consistency with Subsection 3.12.5.4
3.8-2	Subsection 3.8.1.1.2 2 nd Paragraph, 1 st Sentence	Change: "... disengage the hatch, transport, and store in a secure position ..." to "... disengage, transport, and store the hatch in a secure position ..." Editorial: Clarify scope of statement
3.8-2	Subsection 3.8.1.1.2 2 nd Paragraph, 2 nd Sentence	Change: "... transported back by hoist, the hatch repositioned, refastened, and pressure tested for leaks." to "... transported back by hoist, repositioned, refastened, and pressure tested for leaks." Editorial: Clarify scope of statement
3.8-6	Subsection 3.8.1.3.1 1 st Paragraph, 3 rd Bullet, 2 nd paragraph, 1 st Sentence	Change: "... a linear temperature gradient across the PCCV wall thickness develops." to "... a linear temperature gradient develops across the PCCV wall thickness." Editorial: Clarify scope of statement
3.8-6	Subsection 3.8.1.3.1 1 st Paragraph, 4 th Bullet, 2 nd Sentence	Change: "...in Subsection 3.7.2.7" to "...in Subsection 3.7.2.6." Editorial: Correct location
3.8-6	Subsection 3.8.1.3.2 1 st Paragraph, 1 st Sentence	Change: "...pressures from soil, and flooding..." to "...pressures from soil, jet impingement or pipe impact loads cause of pipe breaks, and flooding..." Editorial: Clarify scope of statement
3.8-8	Subsection 3.8.1.3.4 3 rd Paragraph, 1 st Sentence	Change: "... but has not yet significantly increased in the concrete shell, which produces large loads in the liner due to the concrete anchorage restraint against expansion of the liner steel." to "... but has not yet significantly increased in the concrete shell. This condition produces large loads in the liner due to the concrete anchorage restraining expansion of the liner steel." Editorial: Clarify scope of statement and reduce sentence length

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-8	Subsection 3.8.1.4 2 nd Paragraph, 1 st Sentence	Change: “The analyses are summarized in Table 3.8.1-4.” to “The PCCV analysis methods are summarized in Table 3.8.1-4.” Editorial: Clarified application.
3.8-8	Subsection 3.8.1.4 3 rd Paragraph, 1 st Sentence	Change: “The detailed analyses use a general purpose global FE models.” to “The PCCV detailed analyses use general purpose global FE models.” Editorial: Clarify scope of statement and correct grammatical error
3.8-9	Subsection 3.8.1.4.1.1 2 nd Paragraph, 1 st Sentence	Change: “...Figures 3.7.5-7, -8, and -9...” to “...Figures 3.8.5-7, 3.8.5-8, and 3.8.5-9...” Editorial: Correct figure location.
3.8-9	Subsection 3.8.1.4.1.1 3 rd Paragraph, 1 st Sentence	Change: “...pressure loads, however, the non-axisymmetric effects ...” to “...pressure loads. The non-axisymmetric effects ...” Editorial: Split one sentence into two sentences.
3.8-11	Subsection 3.8.1.4.3 1 st Paragraph, 2 nd Sentence	Change: “This is considered to be ...” to “The analysis is considered to be ...” Editorial: Clarify scope of statement
3.8-12	Subsection 3.8.1.4.3 2 nd Paragraph, 1 st Sentence	Change: “The design and configuration of the US-APWR PCCV ...” to “The configuration of the US-APWR PCCV ...” Editorial: Clarify scope of statement
3.8-12	Subsection 3.8.1.4.3 2 nd Paragraph, 3 rd Sentence	Change: “... any penetration or discontinuity) with maximum ...” to “... any penetration of discontinuity), with maximum ...” Editorial: Correct grammatical error
3.8-12	Subsection 3.8.1.4.4 2 nd Paragraph, 1 st Sentence	Change: “... for the liner as an element that contributes to the strength ...” to “... for the liner as contributing to the strength ...” Editorial: Clarify scope of statement
3.8-12	Subsection 3.8.1.4.4 2 nd Paragraph, 4 th Sentence	Change: “The liner system is also designed ...” to “The liner is also designed ...” Editorial: Remove superfluous word

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-17	Subsection 3.8.1.5.1.2 <u>Prestressing Losses</u> 2 nd Paragraph, 3 rd Sentence	Change: "... prestressing losses due to friction shall be consistent with the tendon system ..." to "... prestressing losses due to friction are consistent with the tendon system ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-19	Subsection 3.8.1.5.2.1 <u>Tangential Shear</u> 1 st Paragraph, 2 nd Sentence	Change: "... in the service load category, it should not influence the design." to "... in the service load category, it should have no impact on the design." Editorial: Clarify scope of statement
3.8-19	Subsection 3.8.1.5.2.2 <u>Tendon</u> 1 st Paragraph, 4 th Sentence	Change: "... (effective prestress after anchoring) shall not exceed 0.70 f_{pu} ." to "... (effective prestress after anchoring) is not to exceed 0.70 f_{pu} ." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-19 & 20	Subsection 3.8.1.5.2.2 <u>End Anchor</u> 1 st Paragraph	Change: "See Subarticle CC-3431.1 for concrete compression allowable under the tendon bearing plates. The anchorage components of the US-APWR meet the requirements ASME Code, Section III, Subarticles CC-2430, CC-2450 and CC-2460 (Reference 3.8-2)." to "ASME Code, Section III, Subarticle CC-3431.1 specifies concrete compression allowable under the tendon bearing plates. The anchorage components of the US-APWR meet the requirements of Subarticles CC-2430, CC-2450 and CC-2460 (Reference 3.8-2)." Editorial: Clarify scope of statement
3.8-20	Subsection 3.8.1.5.2.2 <u>Losses</u> 1 st Paragraph, 4 th Sentence	Change: "...prestressing losses due to friction shall be consistent with ..." to "... prestressing losses due to friction are consistent with ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-21	Subsection 3.8.1.5.3 1 st Paragraph, 1 st Sentence	Change: "... (Reference 3.8-2), which states temperature limits ..." to "... (Reference 3.8-2), which defines temperature limits ..." Editorial: Clarify scope of statement
3.8-21	Subsection 3.8.1.5.3 1 st Paragraph, item a.	Change: "... the temperatures shall not exceed 150° F ..." to "... the temperatures are not to exceed 150° F ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-21	Subsection 3.8.1.4.3 1 st Paragraph, item b.	Change: "... the temperatures shall not exceed 350° F ..." to "... the temperatures are not to exceed 350° F ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-23	Subsection 3.8.1.6 1 st Paragraph, 2 nd Sentence	Change: "... ASME Code, Section III, Article CC-2000 (Reference 3.8-2) and ..." to "... ASME Code, Section III (Reference 3.8-2), Article CC-2000, and ..." Editorial: Align reference number with document
3.8-23	Subsection 3.8.1.6 2 nd Paragraph, 3 rd Sentence	Change: "Refer to Chapter 17 for additional discussion on quality assurance programs." to "Chapter 17 provides additional discussion of the QAP." Editorial: Clarify scope of statement
3.8-23	Subsection 3.8.1.6 3 rd Paragraph, 1 st Sentence	Change: "... does not preclude the COL Applicant from making material changes provided that they are rectified ... requirements summarized herein." to "... does not preclude the selection of site-specific material provided that they are rectified ... requirements." Editorial: Clarify scope of statement and remove superfluous words
3.8-23	Subsection 3.8.1.6 <u>Compressive Strength</u> 3 rd Paragraph, 1 st Sentence	Change: "... it is considered that 2/3 of this occurs in the first year ..." to "... it is considered that 2/3 of this creep occurs in the first year ..." Editorial: Clarify scope of statement
3.8-23	Subsection 3.8.1.6 <u>Compressive Strength</u> 3 rd Paragraph, 6 th Sentence	Change: "The specification shall define the concrete constituents such as aggregates, cement, water, admixtures that constitute ..." to "The specification defines the concrete constituents such as aggregates, cement, water, and admixtures that constitute ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-24	Subsection 3.8.1.6 <u>Compressive Strength</u> 3 rd Paragraph, 7 th Sentence	Change: "The materials shall comply with the requirements ..." to "The materials comply with the requirements ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-24	Subsection 3.8.1.6 <u>Compressive Strength</u> 4 th Paragraph, 1 st Sentence	Change: "... concrete mix design as well as the site-specific ..." to "... concrete mix design as well as into the site-specific ..." Editorial: Correct grammatical error
3.8-24	Subsection 3.8.1.6 <u>Liner Plate</u> 4 th Paragraph, 1 st Sentence	Change: "... produce a site-specific specification to define ..." to "... produce a site-specific liner plate specification to define ..." Editorial: Clarify scope of statement
3.8-24	Subsection 3.8.1.6 <u>Liner Plate</u> 4 th Paragraph, 3 rd Sentence	Change: "Fracture toughness requirements for the liner plate material shall be in accordance with ..." to "Fracture toughness requirements for the liner plate material are in accordance with ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-24	Subsection 3.8.1.6 <u>Liner Plate</u> 5 th Paragraph, 1 st Sentence	Change: "Another site-specific specification shall be produced for the PCCV ..." to "The COL Applicant is to produce another site-specific specification for the PCCV ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-25	Subsection 3.8.1.6 <u>Penetration Assemblies</u> 1 st Paragraph, 2 nd Sentence	Change: "Grade 60 is used in some places ..." to "Grade 60 may be used in some places ..."

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)</p>	<p align="center">Description of Change</p>
<p>3.8-25</p>	<p>Subsection 3.8.1.6 <u>Prestressing System</u> 1st Paragraph, 2nd, 3rd & 4th Sentence</p>	<p>Change: “The prestressing system is designed as a strand system as discussed below, however the system material may be switched to a wire system at the choice of the COL Applicant. In this case, it is the responsibility of the COL Applicant to adjust the US-APWR standard plant tendon system design and details on a site-specific basis. The tendon ultimate capacity of an individual tendon ...” to “The prestressing system is designed as a strand system, however the system material may be switched to a wire system at the choice of the COL Applicant. If this is done, the COL Applicant is to adjust the US-APWR standard plant tendon system design and details on a site-specific basis. The ultimate capacity of an individual tendon ...”</p> <p>Editorial: Remove superfluous words & clarify scope of statements</p>
<p>3.8-25</p>	<p>Subsection 3.8.1.6 <u>Tendon Material</u> 1st Paragraph, 1st Bullet</p>	<p>Change: “The strand systems shall be fabricated from ASTM A416, Grade 1860 #15, 0.5 in. diameter strands. The strands shall be low relaxation type. The relaxation losses shall be documented by a minimum ...” to “The strand systems are fabricated from ASTM A416, Grade 1860 #15, 0.5 in. diameter strands. The strands are of the low relaxation type. The relaxation losses are documented by a minimum ...”</p> <p>Editorial: Clarify as affirmative statements opposed to statements of requirement</p>
<p>3.8-26</p>	<p>Subsection 3.8.1.6 <u>Tendon Material</u> 2nd Paragraph, 1st Sentence</p>	<p>Change: “A wire system may be chosen by the COL Applicant in which case the design needs to be reviewed and prestressing system details adjusted to accommodate the wire system material requirements described as follows:” to “If a wire system is selected, the design is reviewed and the prestressing system details adjusted to accommodate the following wire system material requirements:”</p> <p>Editorial: Remove superfluous words & COL action is previously stated</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-26	Subsection 3.8.1.6 <u>Tendon Material</u> 2 nd Paragraph, 1 st Bullet	Change: "Wire systems shall be fabricated from ASTM A421, Type BA, 1/4 in. diameter solid wire. The wire shall be low relaxation type. The relaxation losses shall be documented by a minimum ..." to "Wire systems are fabricated from ASTM A421, Type BA, 1/4 in. diameter solid wire. The wire is of the low relaxation type. The relaxation losses are documented by a minimum ..." Editorial: Clarify as affirmative statements opposed to statements of requirement
3.8-26	Subsection 3.8.1.6 <u>Tendon Material</u> 3 rd Paragraph, 1 st Sentence	Change: "For either tendon system, the relaxation losses shall be not more than 2.5% ... strength of strand after 1,000 hours tested." to "For either tendon system, the relaxation losses are not more than 2.5% ... strength of strand after 1,000 hours of testing." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-26	Subsection 3.8.1.6 <u>Tendon Material</u> 3 rd Paragraph, 2 nd Sentence	Change: "The temperature of the test specimens shall be maintained at 68° ± 3.5°F." to "The temperature of the test specimens are maintained at 68° ± 3.5°F." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-26	Subsection 3.8.1.6 <u>Anchorage Components</u> 1 st Paragraph, 1 st Bullet, 2 nd Sentence	Change: "The specification shall define the material and special material testing requirements ..." to "The specification defines the material and special material testing requirements ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-26	Subsection 3.8.1.6 <u>Anchorage Components</u> 2 nd Paragraph, 1 st Sentence	Change: "... per RG 1.136 (Reference 3.8-2) should be used:" to "... per RG 1.136 (Reference 3.8-3) is used:" Editorial: Clarify scope of statement & correct typographical error
3.8-26	Subsection 3.8.1.6 <u>Anchorage Components</u> 2 nd Paragraph, 1 st Bullet, 1 st Sentence	Change: "The maximum hardness for material of anchor head assemblies and wedge blocks shall not exceed that of Rockwell C40." to "The maximum hardness for material of anchor head assemblies and wedge blocks are not to exceed that of Rockwell C40." Editorial: Clarify as an affirmative statement opposed to a statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-26	Subsection 3.8.1.6 <u>Anchorage Components</u> 3 rd Paragraph, 1 st Sentence	Change: "... the following guidance should be used to protect ..." to "... the following guidance is used to protect ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-27	Subsection 3.8.1.6 <u>Anchorage Components</u> 4 th Paragraph, 1 st Sentence	Change: "... the following guidance should be used: ..." to "... the following guidance is used: ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-27	Subsection 3.8.1.6 <u>Nonload-Carrying and Accessory Materials</u> 1 st Paragraph, 1 st Sentence	Change: "Tendon duct, channel, trumpet, and transition cone material shall meet the requirements of ASME Code, Section III (Reference 3.8-2), Subarticle CC-2440. Corrosion prevention coatings are required for unbonded tendons and shall be in accordance with Subarticle CC-2442." to "Tendon duct, channel, trumpet, and transition cone material meets the requirements of ASME Code, Section III (Reference 3.8-2), Subarticle CC-2440. Corrosion prevention coatings are required for unbonded tendons and are in accordance with Subarticle CC-2442." Editorial: Clarify as affirmative statements opposed to statements of requirement
3.8-27	Subsection 3.8.1.6 <u>Reinforcing Steel Systems</u> 1 st Paragraph, 1 st Sentence	Change: "The material shall be ASTM A615 Grade 60 or A615 Grade 75 (provided that the ductility and splicing requirements are met), and it shall meet the requirements of ..." to "The material is ASTM A615 Grade 60 or A615 Grade 75 (provided that the ductility and splicing requirements are met), and meets the requirements of ..." Editorial: Clarify as affirmative statements opposed to statements of requirement
3.8-27	Subsection 3.8.1.6 <u>Reinforcing Steel Systems</u> 2 nd Paragraph, 1 st Sentence	Change: "Splicing material shall also meet the requirements of Article CC-2300 of the ASME Code, Section III (Reference 3.8-2)." to "Splicing material also meets the requirements of Article CC-2300 of the ASME Code, Section III (Reference 3.8-2)." Editorial: Clarify as an affirmative statement opposed to a statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-27	Subsection 3.8.1.6 <u>Reinforcing Steel Systems</u> 3 rd Paragraph, 1 st Sentence	Change: "... including bars and splices and all material shall conform to Article CC-2300 of the ASME Code, Section III (Reference 3.8-2)." to "... including bars and splices. All material conforms to Article CC-2300 of the ASME Code, Section III (Reference 3.8-2)." Editorial: Clarify as an affirmative statement opposed to a statement of requirement & shorten length of sentence
3.8-27	Subsection 3.8.1.7 2 nd Paragraph, 1st Sentence	Change: "Preoperational structural testing is to be completed for the overall PCCV, ..." to "Preoperational structural testing is performed for the overall PCCV, ..." Editorial: Clarify scope of statement
3.8-27 & 3.8-28	Subsection 3.8.1.7 3 rd Paragraph	Change: "It is the responsibility of the COL Applicant to establish a site-specific program for testing and ISI of the PCCV. The COL Applicant program is to include inservice surveillance, such as the periodic surveillance and inspection of the PCCV liner and prestressing tendons in accordance with ASME Code Section XI, Subsection IWL (Reference 3.8-4)." to "It is the responsibility of the COL Applicant to establish a site-specific program for testing and ISI of the PCCV, including periodic inservice surveillance and inspection of the PCCV liner and prestressing tendons in accordance with ASME Code Section XI, Subsection IWL (Reference 3.8-4)." Editorial: Clarify scope of statement
3.8-28	Subsection 3.8.1.7 <u>Displacement Measurements</u> 1 st Paragraph, 1 st Sentence	Change: "Displacement measurements of the PCCV as defined in ASME Code, Section III (Reference 3.8-2) Subarticle CC-6360 shall meet the following provisions." to "Displacement measurements of the PCCV as defined in ASME Code, Section III (Reference 3.8-2) Subarticle CC-6360 meet the following provisions." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-28	Subsection 3.8.1.7 <u>Displacement Measurements</u> 1 st Paragraph, 1 st Bullet, 1 st Sentence	Change: "Radial displacements of the cylinder at a minimum of ..." to "Radial displacements of the cylinder are measured at a minimum of ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-28	Subsection 3.8.1.7 <u>Displacement Measurements</u> 1 st Paragraph, 2 nd Bullet 1 st & 2 nd Sentence	Change: “ ... adjacent to the largest opening, at a minimum ... The diameter of the inner circle is to be just large enough ...” to “... adjacent to the largest opening, are measured at a minimum ... The diameter of the inner circle is to be just large enough ...” Editorial: Clarify scope of statement & state as process opposed to requirement
3.8-28	Subsection 3.8.1.7 <u>Displacement Measurements</u> 1 st Paragraph, 3 rd Bullet	Change: “... the cylinder relative to the base, at a minimum of four ...” to “... the cylinder relative to the base is measured at a minimum of four ...” Editorial: Clarify scope of statement
3.8-28	Subsection 3.8.1.7 <u>Displacement Measurements</u> 1 st Paragraph, 4 th Bullet	Change: “... of the dome of the PCCV at a point near the apex ...” to “... of the dome of the PCCV are measured at a point near the apex ...” Editorial: Clarify scope of statement
3.8-29	Subsection 3.8.1.7 <u>Sample Selection</u> 1 st Paragraph	Change: “Both regulatory guidance and ASME Code, Section XI (Reference 3.8-4) strongly suggest that measurements and sampling be performed on randomly selected tendons. Therefore, it is highly desirable to have tendons where they are all detensionable for wire or strand removal.” to “ASME Code, Section XI (Reference 3.8-4) requires that measurements and sampling be performed on randomly selected tendons. The PCCV tendons are detensionable and are in compliance with this requirement.” Editorial: Clarify as affirmative statement opposed to requirement
3.8-29	Subsection 3.8.1.7 <u>Acceptance Standards</u> 1 st Paragraph 1 st Sentence	Change: “The acceptance standards for both the RG and ASME Code, Section XI (Reference 3.8-4) are similar and both should be satisfied.” to “The acceptance standards for both the RG and ASME Code, Section XI (Reference 3.8-4) are similar and both are satisfied.” Editorial: Clarify as affirmative statement opposed to statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-30	Subsection 3.8.1.7 <u>Acceptance Standards</u> 1 st Paragraph 4 th Sentence	Change: "For the PCCV covered in this document, the curve should be for 60 years." to "For the US-APWR PCCV, the curve is for 60 years." Editorial: Clarify as affirmative statement opposed to statement of requirement
3.8-30	Subsection 3.8.1.7 <u>Acceptance Standards</u> 1 st Paragraph 6 th Sentence	Change: "The acceptance criteria listed below is for values after these corrections have been applied." to "The acceptance criteria listed below are for values after these corrections have been applied, except the last five items, which apply regardless of corrections." Editorial: Clarify scope of statement
3.8-30	Subsection 3.8.1.7 <u>Acceptance Standards</u> 1 st Paragraph, 3 rd Bullet	Change: "... average current surveillance should show that the next ..." to "... average current surveillance shows that the next ..." Editorial: Clarify as affirmative statement opposed to statement of requirement
3.8-30	Subsection 3.8.1.7 <u>Acceptance Standards</u> 1 st Paragraph, 7 th Bullet	Change: "The tendon anchorage areas do not show evidence of active corrosion and steel items shall not show cracking or other deterioration." to "The tendon anchorage areas do not show evidence of active corrosion and steel items do not show cracking or other deterioration." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-30	Subsection 3.8.1.7 <u>Acceptance Standards</u> 1 st Paragraph, 9 th Bullet	Change: "There is to be no evidence ..." to "There is no evidence ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.8-30	Subsection 3.8.1.7 <u>Additional Required Actions and Responsibilities</u> 1 st Paragraph, 1 st Sentence	Change: "... above are not satisfied, then an investigation ... required items, and these are listed ..." to "... above are not satisfied, an investigation ... required items, and which are listed ..." Editorial: Clarify scope of statement
3.8-31	Subsection 3.8.3 2 nd Paragraph, 1 st Sentence	Change: "... are capable of resisting loads and load combinations ..." to "... are capable of resisting the design loads and load combinations ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-31	Subsection 3.8.3.1.2 3 rd Paragraph, 3 rd Sentence	Change: "Figure 3.8.3-2 provides the visual description of the SG support system." to "Figure 3.8.3-2 depicts the SG support system." Editorial: Clarify scope of statement
3.8-32	Subsection 3.8.3.1.3 3 rd Paragraph, 3 rd Sentence	Change: "Figure 3.8.3-3 provides the visual description of the RCP support system." to "Figure 3.8.3-3 depicts the RCP support system." Editorial: Clarify scope of statement
3.8-32	Subsection 3.8.3.1.4 1 st Paragraph, 4 th Sentence	Change: "Figure 3.8.3-4 provides the visual description of the pressurizer support system." to "Figure 3.8.3-3 depicts the pressurizer support system." Editorial: Clarify scope of statement
3.8-33	Subsection 3.8.3.1.9 1 st Paragraph, 2 nd Sentence	Change: "... the primary loops from the SGs and also protect ..." to "... the primary loops from the SGs. They also protect ..." Editorial: Clarify scope of statement
3.8-34	Subsection 3.8.3.1.10 2 nd Paragraph, 2 nd Sentence	Change: "Figure 3.8.3-7 provides a description of the containment internal structure compartment wall layout and configuration." to "Figure 3.8.3-7 depicts the containment internal structure compartment wall layout and configuration." Editorial: Clarify scope of statement
3.8-34	Subsection 3.8.3.1.11 1 st Paragraph, 3 rd Sentence	Change: "Figure 3.8.3-8 describes the polar crane supports layout and construction." to "Figure 3.8.3-8 depicts the polar crane supports layout and construction." Editorial: Clarify scope of statement
3.8-35	Subsection 3.8.3.3 2 nd Paragraph, 1 st Sentence	Change: "Nuclear safety-related concrete structures... impulsive and impactive loads using the ACI 349 code (Reference 3.8-8), ..." to "Seismic category I concrete structures... impulsive and impactive loads in accordance with the ACI 349 Code (Reference 3.8-8) ..." Editorial: Clarify scope of statement & correct typographical error
3.8-35	Subsection 3.8.3.3 2 nd Paragraph, 2 nd Sentence	Change: "... in determining the required resistance of structural elements." to "... in determining the required load resistance of structural elements." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-35	Subsection 3.8.3.3.1 1 st Paragraph, 1 st Sentence	Change: “Refer to Table 3.8.3-1 for the type ...” to “Table 3.8.3-1 shows the type ...” Editorial: Clarify scope of statement
3.8-35	Subsection 3.8.3.3.1 2 nd Paragraph, 1 st Sentence	Change: “Refer to the following minimum values ...” to “The following are the minimum values ...” Editorial: Clarify scope of statement
3.8-35	Subsection 3.8.3.3.1 3 rd Paragraph, 1 st Sentence	Change: “... if actual loads are established to be lower ...” to “... if actual loads are determined to be lower ...” Editorial: Clarify scope of statement
3.8-37	Subsection 3.8.3.3.5 1 st Paragraph, 3 rd Sentence	Change: “Local areas are investigated and designed for the elevated ...” to “Local areas are designed for the elevated ...” Editorial: Clarify scope of statement
3.8-37	Subsection 3.8.3.3.5 2 nd Paragraph, 2 nd Sentence	Change: “... the entire wall could experience an increase ...” to “... the entire wall experiences an increase ...” Editorial: Clarify scope of statement
3.8-42	Subsection 3.8.3.4.5.3 2 nd Paragraph, 1 st Sentence	Change: “This approach is based on ...” to “The design approach is based on ...” Editorial: Clarify scope of statement
3.8-42	Subsection 3.8.3.4.5.4 1 st Paragraph, 1 st Sentence	Change: “Acceptance for the load combination ...” to “The acceptance criterion for the load combination ...” Editorial: Clarify scope of statement
3.8-44	Subsection 3.8.4 1 st Paragraph, 1 st Sentence	Change: “Seismic category I structures in this subsection include ...” to “Seismic category I structures include ...” Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-45	Subsection 3.8.4 4 th & 5 th Paragraphs	<p>Change: “The COL Applicant is responsible for the seismic design of those seismic category I SSCs not part of the US-APWR standard plant. Non-standard seismic category I SSCs are site-specific, and are designed for the site specific or more conservative SSE based on the ground motion response spectra, the site-specific foundation input response spectra, and the minimum response spectrum as described in Subsection 3.7.1.1.</p> <p>The COL Applicant is responsible for the design of the following seismic category I structures to the site-specific SSE:</p> <ul style="list-style-type: none"> • ESWPTs • UHSRSs • PSFSVs” to <p>“The COL Applicant is responsible for the seismic design of seismic category I and seismic category II SSCs not part of the US-APWR standard plant, including the following non-standard seismic category I structures designed to the site-specific SSE:</p> <ul style="list-style-type: none"> • ESWPT • UHSRSs • PSFSVs <p>Non-standard seismic category I SSCs are site-specific, and are designed for the site specific or more conservative SSE based on the ground motion response spectra, the site-specific foundation input response spectra, and the minimum response spectrum as described in Subsection 3.7.1.1.”</p> <p>Editorial: Clarify scope of statements</p>
3.8-47	Subsection 3.8.4.1.2 1 st Paragraph, 2 nd Sentence	<p>Change: “... a reinforced concrete basemat and each building contains ...” to “... a reinforced concrete basemat. Each building contains ...”</p> <p>Editorial: Clarify scope of statement</p>
3.8-47	Subsection 3.8.4.1.3 Title	<p>Change: “ESWPT and UHSRS” to “ESWPT, UHSRSs, PSFSVs, and Other Site-Specific Structures”</p> <p>Editorial: Include all non-standard plant structures in subsection scope</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-47	Subsection 3.8.4.1.3 1 st Paragraph	Add to the end of 1 st paragraph: “The UHSRSs consist of a cooling tower enclosure, ESWS pump houses, and the UHS basin. The PSFSVs are underground structures which house the safety-related and non safety-related oil tanks.” Editorial: Clarify scope of statement
3.8-47	Subsection 3.8.4.1.3 2 nd Paragraph, 1 st Sentence	Change: “The design and analysis of the ESWPT and UHSRS is to be provided ...” to “The design and analysis of the ESWPT, UHSRSs, PSFSVs, and other site-specific structures are to be provided ...” Editorial: Clarify scope of statement & correct grammatical error
3.8-48	Subsection 3.8.4.3 2 nd Paragraph, 1 st Sentence	Change: “Externally generated loads may be applicable as identified in site COL items.” to “The COL Applicant is to identify any applicable externally generated loads.” Editorial: Clarify scope of statement
3.8-51	Subsection 3.8.4.3.4.1 3 rd Paragraph, 1 st Sentence	Change: “... the actual loads may be used.” to “the actual loads may be used for reconciliation.” Editorial: Align statement as stated in COL 3.8(21)
3.8-54	Subsection 3.8.4.3.7.1 1 st Paragraph	Add as new paragraph below 1 st Paragraph: “The COL Applicant is to specify normal operating thermal loads for site-specific structures, as applicable.” Editorial: Clarify site-specific applicability
3.8-54	Subsection 3.8.4.3.8.2 1 st Paragraph, 3 rd Sentence	Change: “Local areas are investigated and designed ...” to “Local areas are designed ...” Editorial: Clarify scope of statement
3.8-56	Subsection 3.8.4.4.1 3 rd Paragraph, 3 rd & 4 th Sentence	Change: “... for steel structures, and American Iron and Steel Institute (AISI) for cold formed steel structures (Reference 3.8-38).” to “... for steel structures, and with American Iron and Steel Institute (AISI) specification for cold formed steel structures (Reference 3.8-38).” Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-56	Subsection 3.8.4.4.1 4 th Paragraph, 1 st Sentence	Change: "In the flexible shear walls and floor slabs, like the main steam piping room with many openings, the R/B is designed considering the out-of-plane bending and shear loads, ..." to "The design of the R/B's flexible shear walls and floor slabs, like that of the main steam piping room with many openings, takes into account the out-of-plane bending and shear loads, such as live load, dead load, and seismic load." Editorial: Clarify scope of statement
3.8-57	Subsection 3.8.4.4.1.1 1 st Paragraph, SECTION 4, 2 nd Sentence	Change: "This exterior wall illustrates typical loads ..." to "This exterior wall is subjected to typical loads ..." Editorial: Clarify scope of statement
3.8-57	Subsection 3.8.4.4.1.1 1 st Paragraph, AREA 4, 2 nd Sentence	Change: "The slab is unique area of the water storage pit." to "The slab is a unique area encompassing the water storage pit." Editorial: Clarify scope of statement
3.8-57	Subsection 3.8.4.4.1.2 <u>West Exterior Wall</u> 1 st Paragraph, 2 nd Sentence	Change: "The walls are typically ..." to "The wall segments are typically ..." Editorial: Clarify scope of statement
3.8-57	Subsection 3.8.4.4.1.2 <u>South Interior Wall</u> 1 st Paragraph, 2 nd Sentence	Change: "The walls are typically ..." to "The wall segments are typically ..." Editorial: Clarify scope of statement
3.8-58	Subsection 3.8.4.4.1.2 <u>North Exterior Wall of Spent Fuel Pit</u> 1 st Paragraph, 2 nd Sentence	Change: "The walls are typically ..." to "The wall segments are typically ..." Editorial: Clarify scope of statement
3.8-58	Subsection 3.8.4.4.1.2 <u>South Exterior Wall</u> 1 st Paragraph, 2 nd Sentence	Change: "The walls are typically ..." to "The wall segments are typically ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-58	Subsection 3.8.4.4.1.3 <u>Design Approach</u> 1 st Paragraph, 2 nd Sentence	Change: "... the requirements of American Concrete Institute standard ACI 349 (Reference 3.8-8)." to "... the requirements of the ACI 349 (Reference 3.8-8)." Editorial: Remove superfluous words
3.8-59	Subsection 3.8.4.4.2 2 nd Paragraph, 1 st Sentence	Change: "... with AISC N690 (Reference 3.8-8) for steel structures, and American Iron and Steel Institute (AISI) for cold formed steel structures Reference 3.8-34)." to "... with AISC N690 (Reference 3.8-8) for steel structures, and AISI specification for cold formed steel structures Reference 3.8-38)." Editorial: Remove superfluous words, clarified scope of statement, & corrected reference number
3.8-62	Subsection 3.8.4.4.3 8 th Paragraph	Add new paragraph below: "The COL Applicant is to provide design and analysis procedures for the ESWPT, UHSRS, and PSFSVs." Editorial: Provided consistent COL Applicant action and wording
3.8-62	Subsection 3.8.4.4.4 1 st Paragraph 2 nd Sentence	Change: "However, such structures must not fall or displace excessively where they could damage any seismic category I SSCs." to "However, such structures must not fall or displace to the point where they could damage seismic category I SSCs." Editorial: Clarify scope of statement
3.8-62	Subsection 3.8.4.4.4 1 st Paragraph	Insert new paragraph below existing 1 st paragraph: "Seismic Category II structures and subsystems are analyzed and designed using the same methods and stress limits specified for seismic Category I structures and subsystems, except structural steel in-plane stress limits are permitted to reach 1.0 F _y ." Technical: Align discussion with other sections

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-62	Subsection 3.8.4.4.4 3 rd Paragraph	Delete in its entirety: "It is the responsibility of the COL Applicant to perform site-specific analyses of buildings and structures that are classified as seismic systems and designed on a site-specific basis. The seismic system buildings and structures that can be subject to site-specific seismic analyses include, but are not limited to, the following: <ul style="list-style-type: none"> • A/B (seismic category II) (if re-designed or modified for site specific condition) • T/B (seismic category II) (if re-designed or modified for site specific condition)" Editorial: Redundant with Subsection 3.8.4.1.3
3.8-62	Subsection 3.8.4.4.4 4 th Paragraph	Delete in its entirety: "The COL Applicant is to assure the minimum gaps adjacent to seismic category I building superstructures are two times the absolute sum of the maximum displacement of each building under the most unfavorable load combination, or a minimum of 4 in." Editorial: Scope of statement is included in Subsection 3.8.4.1
3.8-64	Subsection 3.8.4.6.1.4 1 st Paragraph, 6 th Sentence	Change: "... with American Welding Society D1.4 (Reference 3.8-46)." to "... with American Welding Society (AWS) D1.4 (Reference 3.8-46)." Editorial: Add applicable acronym
3.8-68	Subsection 3.8.4.7 1 st Paragraph	Change: "Monitoring of seismic category I structures is performed in accordance with the requirements of NUMARC 93-01 (Reference 3.8-28) and 10 CFR 50.65 (Reference 3.8-29) as detailed in RG 1.160, specifically Section 1.5 (Reference 3.8-30). The COL Applicant is to address the following issues:" to "The COL Applicant is to address monitoring of seismic category I structures in accordance with the requirements of NUMARC 93-01 (Reference 3.8-28) and 10 CFR 50.65 (Reference 3.8-29) as detailed in RG 1.160 (Reference 3.8-30)." Editorial: Provided consistent COL Applicant action and wording
3.8-68	Subsection 3.8.4.7.1 1 st Paragraph, 1 st Sentence	Change: "... seismic category I and II SSCs is in accordance ..." to "... seismic category I and II SSCs are conducted in accordance ..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-69	Subsection 3.8.5.1 2 nd Paragraph, 2 nd Sentence	Change: “Where the zone of maximum frost penetration as identified on a site-specific COL extends below the depth of the basemats for the standard plant, lean concrete is poured under any basemat above the frost line so that the bottom of lean concrete is below the maximum frost penetration level.” to “The COL Applicant is to determine if the site-specific zone of maximum frost penetration extends below the depth of the basemats for the standard plant, and to pour lean concrete under any basemat above the frost line so that the bottom of lean concrete is below the maximum frost penetration level.” Editorial: Provided consistent COL Applicant action and wording
3.8-69	Subsection 3.8.5.1.1 1 st Paragraph, 3 rd Sentence	Change: “... containment internal structure, and the second part is for ...” to “... containment internal structure, and the other part is for ...” Editorial: Clarify scope of statement
3.8-69	Subsection 3.8.5.1.1 3 rd Paragraph, 1 st Sentence	Change: “The basemat reinforcement consists of a top layer of reinforcement, a bottom layer of reinforcement, ...” to “The basemat reinforcement consists of a top horizontal layer of reinforcement, a bottom horizontal layer of reinforcement, ...” Editorial: Clarify scope of statement
3.8-70	Subsection 3.8.5.1.3 1 st Paragraph	Change: “Other buildings and structures of the US-APWR are designed based on site-specific subgrade conditions by the COL Applicant.” to “Other non-standard seismic category I plant buildings and structures of the US-APWR are designed by the COL Applicant based on site-specific subgrade conditions.” Editorial: Provided consistent COL Applicant action and wording
3.8-71	Subsection 3.8.5.4.1 3 rd Paragraph, 2 nd & 3 rd Sentences	Change: “This approach is justified because the strains in subgrade materials with these shear velocities is very low. For the generic subgrade shown above, having a shear wave ...” to “The constant subgrade shear modulus assumption is justified because the strains in subgrade materials at those shear velocities are very low. For the generic subgrade having a shear wave ...” Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-73	Subsection 3.8.5.4.4 2 nd Paragraph, 5 th Sentence	Change: "... therefore, considers only sites with ..." to "... therefore, apply only to sites with ..." Editorial: Clarify scope of statement
3.8-74	Subsection 3.8.5.4.4 5 th Paragraph, 4 th Sentence	Change: "Therefore, the potential differential settlement ... construction scenarios through sufficient basemat reinforcement, until such time as the basemat ..." to "Therefore, the potential for differential settlement ... construction scenarios, until the basemat ..." Editorial: Clarify scope of statement
3.8-77	Subsection 3.8.6 COL 3.8(1)	Change: " <i>The design analysis takes into account the minimum/maximum values permitted by the codes and standards as appropriate to capture worst case analysis scenarios. It is the responsibility of the COL Applicant to perform reconciliation evaluations when the as-built properties become available.</i> " to " <i>It is the responsibility of the COL Applicant to perform reconciliation evaluations when the as-built properties become available.</i> " Editorial: Remove extraneous information
3.8-77	Subsection 3.8.6 COL 3.8(2)	Change: "... coefficients used in computing prestressing losses due to friction is consistent with ..." to "... coefficients used in computing prestressing losses due to friction are consistent with ..." Editorial: Correct grammatical error
3.8-77	Subsection 3.8.6 COL 3.8(3)	Change: "...specified in Article CC-2000..." to "...specified in ASME Code, Section III, Article CC-2000..." Editorial: Clarify scope of statement and provided consistent wording
3.8-77	Subsection 3.8.6 COL 3.8(5)	Change: "... by testing of the site-specific concrete mix. The PCCV design analysis ...of the containment calculation." to "... by testing of the site-specific concrete mix, and the PCCV design analysis ...of the PCCV calculation." Editorial: Align statement as stated in Subsection 3.8.1.6 text
3.8-77	Subsection 3.8.6 COL 3.8(7)	Change: "...as well as the site-specific structural surveillance program." to "...as well as into the site-specific structural surveillance program." Editorial: Align statement as stated in Subsection 3.8.1.6 text

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-77	Subsection 3.8.6 COL 3.8(8)	Change: "... to produce a site-specific specification ..." to "... to produce a site-specific liner plate specification ..." Editorial: Align statement as stated in Subsection 3.8.1.6 text
3.8-77	Subsection 3.8.6 COL 3.8(9)	Change: "Another site-specific specification is produced for the PCCV locks and equipment hatch." to "The COL Applicant is to produce another site-specific specification for the PCCV personnel airlocks and equipment hatch." Editorial: Align statement as stated in Subsection 3.8.1.6 text
3.8-78	Subsection 3.8.6 COL 3.8(10)	Change: "The prestressing system is designed as a strand system as discussed below, however, the system material may be switched to a wire system at the choice of the COL Applicant. In this case, it is the responsibility of the COL Applicant to adjust the US-APWR standard plant tendon system design and details on a site-specific basis." to "The prestressing system is designed as a strand system, however, the system material may be switched to a wire system at the choice of the COL Applicant. If this is done, the COL Applicant is to adjust the US-APWR standard plant tendon system design and details on a site-specific basis." Editorial: Align statement as stated in Subsection 3.8.1.6 text
3.8-78	Subsection 3.8.6 COL 3.8(11)	Change "A wire system may be chosen by the COL Applicant in which case the design needs to be reviewed and pre-stressing system details adjusted to accommodate the wire system material requirements." to "Deleted" Editorial: Applicable COL statement is deleted from Subsection 3.8.1.6 text
3.8-78	Subsection 3.8.6 COL 3.8(12)	Change: "... the material requirements for the Prestressing System." to "... the material requirements for the Prestressing System." Editorial: Correct typographical error

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)</p>	<p align="center">Description of Change</p>
<p>3.8-78</p>	<p>Subsection 3.8.6 COL 3.8(13)</p>	<p>Change: "... requirements for the Reinforcing Steel System including bars and splices." to "... requirements for the reinforcing steel system including bars and splices, and all material is to conform to Article CC-2300 of the ASME Code, Section III."</p> <p>Editorial: Add portion of sentence as stated in Subsection 3.8.1.6 text and correct capitalization</p>
<p>3.8-78</p>	<p>Subsection 3.8.6 COL 3.8(14)</p>	<p>Change: "It is the responsibility of the COL Applicant to establish a site-specific program for testing and ISI of the containment. The COL Applicant program is to include inservice surveillance, such as the periodic surveillance and inspection of the containment liner and pre-stressing tendons in accordance with ASME Code, Section XI, Subsection IWL." to "It is the responsibility of the COL Applicant to establish a site-specific program for testing and ISI of the PCCV, including periodic inservice surveillance and inspection of the PCCV liner and prestressing tendons in accordance with ASME Code Section XI, Subsection IWL."</p> <p>Editorial: Align with Subsection 3.8.1.7 text</p>
<p>3.8-78</p>	<p>Subsection 3.8.6 COL 3.8(15)</p>	<p>Change: "COL Applicants is responsible for the seismic design of those seismic category I and II SSCs not part of the US-APWR standard plant. The COL Applicant is responsible for the design of the following seismic category I structures to the site-specific SSE:</p> <ul style="list-style-type: none"> • ESWPTs • UHSRSs • PSFSVs" to <p>"The COL Applicant is responsible for the seismic design of those seismic category I and seismic category II SSCs not part of the US-APWR standard plant, including the following non-standard seismic category I structures designed to the site-specific SSE:</p> <ul style="list-style-type: none"> • ESWPT • UHSRSs • PSFSV" <p>Editorial: Align with Subsection 3.8.4 text</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-78	Subsection 3.8.6 COL 3.8(16)	Change: <i>“Seismic category II structures and subsystems are, therefore, analyzed and designed by the COL Applicant for the site-specific SSE using the same methods and stress limits specified for seismic category I structures and subsystems, except structural steel in-plane stress limits are permitted to reach 1.0 F_y to “Deleted”</i> Technical: Activity is not limited to COL Applicant.
3.8-78	Subsection 3.8.6 COL 3.8(17)	Change: <i>“It is the responsibility of the COL Applicant to perform site-specific analyses of buildings and structures that are classified as seismic systems and designed on a site-specific basis. The seismic system buildings and structures that can be subject to site-specific seismic analyses include, but are not limited to, the following:</i> <ul style="list-style-type: none"> • A/B (seismic category II) (if re-designed or modified for site specific condition) • T/B (seismic category II) (if re-designed or modified for site specific condition)” to “Deleted” Editorial: Redundant with COL 3.8(19)
3.8-78	Subsection 3.8.6 COL 3.8(18)	Change: <i>“The COL Applicant is to assure the minimum gaps adjacent to seismic category I building superstructures are two times the absolute sum of the maximum displacement of each building under the most unfavorable load combination, or a minimum of 2 in.” to “Deleted”</i> Editorial: Redundant with scope of statement in DCD Subsection 3.8.4.1
3.8-78	Subsection 3.8.6 COL 3.8(19)	Change: <i>“The design and analysis of the ESWPT and UHS basin is to be provided ...” to “The design and analysis of the ESWPT, UHSRS, PSFSVs, and other site-specific structures are to be provided ...”</i> Editorial: Align statement as stated in Subsection 3.8.4.1.3
3.8-78	Subsection 3.8.6 COL 3.8(20)	Change: <i>“Externally generated loads may be applicable as identified in site COLs.” to “The COL Applicant is to identify any applicable externally generated loads.”</i> Editorial: Align statement as stated in Subsection 3.8.4.1.3

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-78	Subsection 3.8.6 COL 3.8(21)	Change: <i>“In design reconciliation analysis, if actual loads are established to be lower than the above loads, the actual loads may be used for reconciliation.”</i> to <i>“Deleted”</i> Editorial: Current statement of compliance in DCD is applicable to COL Applicant
3.8-79	Subsection 3.8.6 COL 3.8(23)	Change: <i>“Where the zone of maximum frost penetration as identified on a site specific COL extends below the depth of the foundations for the standard plant, lean concrete is poured under any foundation bases above the frost line so that the bottom of lean concrete is below the maximum frost penetration level..”</i> to <i>“The COL Applicant is to determine if the site-specific zone of maximum frost penetration extends below the depth of the basemats for the standard plant, and to pour lean concrete under any basemat above the frost line so that the bottom of lean concrete is below the maximum frost penetration level.”</i> Editorial: Align statement as stated in Subsection 3.8.5.1
3.8-79	Subsection 3.8.6 COL 3.8(24)	Change: <i>“Other buildings and structures of the US-APWR are designed based on site-specific soil conditions by the COL Applicant.”</i> to <i>“Other non-standard seismic category I buildings and structures of the US-APWR are designed by the COL Applicant based on site-specific subgrade conditions.”</i> Editorial: Align statement as stated in text.
3.8-79	Subsection 3.8.6 COL 3.8(25)	Change: <i>“Design soil conditions are as provided in Chapter 2, Section 2.5, ...”</i> to <i>“The The site-specificCOL...”</i> Editorial: Align statement as stated in Subsection 3.8.5.5
3.8-79	Subsection 3.8.6 COL 3.8(26)	Add as new COL item below COL 3.8(26): <i>“COL 3.8(27) The COL Applicant is to specify normal operating thermal loads for site-specific structures, as applicable.”</i> Editorial: Clarify site-specific applicability
3.8-79	Subsection 3.8.6 COL 3.8(26)	Add as new COL item below COL 3.8(26): <i>“COL 3.8(28) The COL Applicant is to specify concrete strength utilized in non-standard plant seismic category I structures.”</i> Editorial: Align statement as stated in Subsection 3.8.4.6.1.1

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.8-79	Subsection 3.8.6 COL 3.8(26)	Add as new COL item below COL 3.8(26): <i>“COL 3.8(29) The COL Applicant is to provide design and analysis procedures for the ESWPT, UHSRS, and PSFSVs.”</i> Editorial: Align statement as stated in Subsection 3.8.4.4.3
3.8-98	Table 3.8.4-4 Note 7	Change: “1.5” to “1.4” Technical: Reflect design enhancement
3.8-182	Figure 3.8.3-6 (Sheet 6 of 7)	Replaced figure in its entirety. Editorial: Updated general arrangement drawing
3.8-183	Figure 3.8.3-6 (Sheet 7 of 7)	Replaced figure in its entirety. Editorial: Updated general arrangement drawing
3.8-200	Figure 3.8.4-3 (Sheet 1 of 2)	Replaced figure in its entirety. Editorial: Updated general arrangement drawing
3.8-201	Figure 3.8.4-3 (Sheet 2 of 2)	Replaced figure in its entirety. Editorial: Updated general arrangement drawing
3.8-210	Figure 3.8.4-11	Replaced figure in its entirety. Editorial: Updated general arrangement drawing
3.8-211	Figure 3.8.4-12	Replaced figure in its entirety. Editorial: Updated general arrangement drawing
3.8-215	Figure 3.8.5-1	Replaced figure in its entirety. Editorial: Updated general arrangement drawing
3.8-216	Figure 3.8.5-2	Replaced figure in its entirety. Editorial: Updated general arrangement drawing
3.8-217	Figure 3.8.5-3	Replaced figure in its entirety. Editorial: Updated general arrangement drawing

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.9-1	Subsection 3.9.1.1 1 st Paragraph, 1 st Sentence	Change: "...resulting from various operating conditions in the plant that may occur." to "...resulting from various operating conditions in the plant." Editorial: Remove superfluous words
3.9-1	Subsection 3.9.1.1 2 nd Paragraph, Last Sentence	Add: "The detail of design transient is described in the Technical Report (Reference 3.9-57)." Editorial: Include reference to supporting document
3.9-2	Subsection 3.9.1.1 7 th Paragraph, 1 st Sentence	Change: "...for correction of the conditions or repair of damage in the system." to "...for correction of the conditions or repair of damage." Editorial: Remove superfluous statement
3.9-2	Subsection 3.9.1.1 12 th Paragraph, 1 st Sentence	Change: "In the stress and fatigue of component and piping, the effect of thermal stratification and thermal striping is considered." to "The effect of thermal stratification and thermal striping is considered in the stress and fatigue evaluation of components and piping." Editorial: Clarify scope of statement
3.9-4	Subsection 3.9.1.1.1.2 4 th Paragraph, 1 st Sentence	Change: "The number of plant heat-up and cooldown operations..." to "Plant heat-up and cooldown operations..." Editorial: Remove superfluous words
3.9-6	Subsection 3.9.1.1.1.7 1 st Paragraph, 2 nd Bullet, 3 rd Sentence	Change: "...occur 6×10^6 times..." to "...occur 8×10^5 times..." Editorial: Correct typographical error
3.9-6	Subsection 3.9.1.1.1.7 2 nd Paragraph, 1 st Sentence	Change: "The limiting case is used for component evaluations." to "The limiting case of load fluctuations is used for component evaluations." Editorial: Clarify scope of statement
3.9-7	Subsection 3.9.1.1.1.11 1 st Paragraph, 2 nd & 3 rd Sentences	Change: "...which is assumed to be 70°F, into the RCS. The cold water at 70°F, is..." to "...which is assumed to be 32°F, into the RCS. The cold water at 32°F, is..." Editorial: Correct typographical error
3.9-7	Subsection 3.9.1.1.1.12 1 st Paragraph, 1 st Sentence	Change: "This transient is required to check the turbine cycle during the hot functional test." to "This transient occurs during the required check of the turbine cycle during hot functional testing." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-8	Subsection 3.9.1.1.2.2 3 rd Paragraph, 1 st Sentence	Change: "As the RCPs are tripped, the RCS flow becomes a natural circulation condition." to "As the RCPs are tripped, the RCS flow enters a natural circulation condition." Editorial: Clarify scope of statement
3.9-8	Subsection 3.9.1.1.2.3 1 st Paragraph, 2 nd Sentence	Change: "The reactor coolant temperature... promptly decreases from full power..." to "Upon a RT, the reactor coolant temperature... promptly decrease from full power..." Editorial: Clarify scope of statement
3.9-9	Subsection 3.9.1.1.2.3 1 st Paragraph, 3 rd Bullet, 3 rd Sentence	Change: "By the actuation of the SIS, the...." to "Upon the actuation of the SIS, the..." Editorial: Clarify scope of statement
3.9-9	Subsection 3.9.1.1.2.5 1 st Paragraph	Change: "To assure compliance with the requirements of 10 CFR 50, Appendix G (Reference 3.9-5), safety valve located in the residual heat removal (RHR) pump suction piping provides additional relieving capability of the RCS inventory. RCS cold over-pressurization may... water volume. This transient is assumed to occur 30 times during the plant design life." to "RCS cold over-pressurization may... water volume. To assure compliance with the requirements of 10 CFR 50, Appendix G (Reference 3.9-5), safety valve located in the residual heat removal (RHR) pump suction piping provides additional relieving capability of the RCS inventory. This transient is assumed to occur 30 times during the plant design life." Editorial: Clarify scope of statement
3.9-10	Subsection 3.9.1.1.2.8 1 st Paragraph, 2 nd Sentence	Change: "The following is included:" to "They include:" Editorial: Clarify scope of statement
3.9-10	Subsection 3.9.1.1.2.9 1 st Paragraph, 1 st Sentence	Change: "...no-load condition including the feed water pump,..." to "...no-load condition with the feed water pump,..." Editorial: Clarify scope of statement
3.9-11	Subsection 3.9.1.1.3 1 st Paragraph, 1 st Sentence	Change: "The RCS transients under emergency (PC-4 in..." to "The RCS transients under emergency conditions (PC-4 in..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-13	Subsection 3.9.1.1.4.4 1 st Paragraph, 3 rd Sentence	Change: "To determine the increase in pressure to the reduction in flow conservatively, the seizure is assumed to occur instantaneously." to "In order to conservatively determine the increase in pressure due to the reduction in flow, the seizure is assumed to occur instantaneously." Editorial: Clarify scope of statement
3.9-14	Subsection 3.9.1.1.5.1 1 st Paragraph, 1 st Sentence	Change: "The hydrostatic test means that both factory and plant..." to "Both factory and plant..." Editorial: Remove superfluous phrase
3.9-15	Subsection 3.9.2.1 2 nd Paragraph, 1 st Sentence	Change: "The construction test phase involves assuring that the as-built piping systems, supports, and associated components are checked for correct installation." to "The construction test phase involves checking the as-built piping systems, supports, and associated components for correct installation." Editorial: Clarify scope of statement
3.9-18	Subsection 3.9.2.2.2 3 rd Paragraph, 2 nd Sentence	Change: "...which consists of stick mass spring model of SG, RCP, Reactor Pressure Vessel, loop piping and also include buildings." to "...which consists of the use of stick mass spring model of SG, RCP, Reactor Pressure Vessel, loop piping and buildings." Editorial: Clarify scope of statement
3.9-18	Subsection 3.9.2.2.2 3 rd Paragraph, 3 rd Sentence	Change: "The other is for seismic analysis of internal components of SG itself." to "The other is used for seismic analysis of internal components of the SG." Editorial: Clarify scope of statement
3.9-19	Subsection 3.9.2.2.3 2 nd Paragraph, 2 nd Sentence	Change: "...3.7.1.1.1.5 and..." to "...3.7.1.1 and..." Editorial: Correct location
3.9-19	Subsection 3.9.2.2.8 1 st Paragraph, 1 st Sentence	Change: "...or two separate structures,..." to "...or by two separate structures,..." Editorial: Clarify scope of statement
3.9-19	Subsection 3.9.2.2.8 3 rd Paragraph, 1 st Sentence	Change: "... Subsection 3.12.3" to "...Subsection 3.12.3.3" Editorial: Correct location

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-20	Subsection 3.9.2.2.10 1 st Paragraph, 1 st Sentence	Change: "Most of the equipment are designed..." to "Most of the US-APWR equipment is designed..." Editorial: Clarify scope of statement
3.9-20	Subsection 3.9.2.10 2 nd Paragraph, 1 st Sentence	Change: "...subsystem analyses are to be as follows:" to "...subsystem analyses are as follows:" Editorial: Remove superfluous words
3.9-20	Subsection 3.9.2.2.10 3 rd Paragraph, 1 st Sentence	Change: "...are included in the analysis (See Subsection 3.12.4.2)." to "...are included in the analysis described in Subsection 3.12.4.2." Editorial: Clarify scope of statement
3.9-20	Subsection 3.9.2.2.11 1 st Paragraph, 2 nd Sentence	Change: "For application to the site specific design to be performed by the COL Applicant, as applicable, see Subsection 3.7.3.7." to "Site Specific design, including the structural design of the pipe tunnel and conduits, is further discussed in Subsection 3.7.2.8 and Subsection 3.7.3.7." Editorial: Clarify scope of statement
3.9-21	Subsection 3.9.2.2.14 1 st Paragraph, 2 nd Sentence	Change: "The COL Applicant will include an implementation program that includes milestones and completion dates." to "Implementation program that includes milestones and completion dates is further discussed in Section 3.10." Editorial: Clarify scope of statement
3.9-21	Subsection 3.9.2.3 2 nd Paragraph, 1 st Sentence	Change: "...a comprehensive vibration analysis program should be setup for..." to "...a comprehensive vibration analysis program is set up for..." Editorial: Clarify scope of subject
3.9-21	Subsection 3.9.2.3 2 nd Paragraph, 3 rd Sentence	Change: "...Subsection 5.4.2.1." to "...Subsection 5.4.2.1.2.10." Editorial: Correct location
3.9-21	Subsection 3.9.2.3.1 1 st Paragraph, 1 st Bullet	Change: "Design: neutron reflector instead of baffles" to "Design: the US-APWR uses neutron reflector instead of baffles" Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-22	Subsection 3.9.2.3.2 1 st Paragraph, 1 st Bullet, 1 st Paragraph, 1 st Sentence	Change: "...current 4-loop plant with a larger core barrel diameter and with the neutron reflector instead of the baffle structure." to "...current 4-loop plant but features a larger core barrel diameter and a neutron reflector instead of a baffle structure." Editorial: Clarify scope of statement
3.9-24	Subsection 3.9.2.3.2 1 st Paragraph, 3 rd Bullet, 2 nd Paragraph, 3 rd Sentence	Change: "...is slightly higher than that in the current 4-loop plant but sufficient margins of safety for cross-flow induced vibrations such as fluid elastic instability and turbulence-induced vibration are maintained." to "...is slightly higher than that of the current 4-loop plant, but sufficient margins of safety are maintained for cross-flow induced vibrations, such as fluid elastic instability and turbulence-induced vibration." Editorial: Clarify scope of statement
3.9-25	Subsection 3.9.2.4.1 1 st Paragraph, 1 st Sentence	Change: "...classified as a Prototype." to "... classified as Prototype in accordance with RG 1.20 (Reference 3.9-21)." Editorial: Clarify scope of subject
3.9-25	Subsection 3.9.2.4.1 1 st Paragraph, 2 nd Sentence	Change: "...Guide 1.20 (Reference 3.9-21)." to "...Guide 1.20." Editorial: Clarify scope of subject
3.9-25	Subsection 3.9.2.4.1 1 st Paragraph, 2 nd Sentence	Add the following sentences: ""The first COL Applicant is to commit to implement a pre-operational vibration assessment program and to prepare the final report consistent with guidance of RG 1.20 for a prototype. Subsequent COL Applicant need only provide information in accordance with the applicable portion of position C.3 of RG 1.20 for Non-Prototype internals." Editorial: Provide consistent COL Applicant action and wording
3.9-25	Subsection 3.9.2.4.1 3 rd Paragraph	Add the following paragraph after existing 3 rd Paragraph: "The needs for flow-induced vibration, measurement testing, of steam generator internals is discussed in Subsection 5.4.2.1.2.10." Editorial: Provided consistent COL Applicant action and wording
3.9-25	Subsection 3.9.2.4.2 3 rd Paragraph, 3 rd Sentence	Change: "...at key connecting points while dynamic..." to "...at key connecting points, and dynamic..." Editorial: Clarify scope of subject

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-25	Subsection 3.9.2.4.2 3 rd Paragraph, 4 th Sentence	Change: "Some of the specific locations are given below." to "Some of the specific measurement locations are described below." Editorial: Clarify scope of statement
3.9-26	Subsection 3.9.2.4.2 3 rd Paragraph, 1 st Bullet, 2 nd Sentence	Change: "Shell-mode responses are measured..." to "Shell-mode responses will be measured..." Editorial: Clarify scope of statement
3.9-26	Subsection 3.9.2.4.3 1 st Paragraph, 2 nd Sentence	Change: "...unless no indication of harmful sign, abnormally large vibration amplitudes or excessive wear is detected." to "...unless no structural damage or change is observed." Editorial: Clarify scope of statement
3.9-26	Subsection 3.9.2.4.4 1 st Paragraph, 2 nd Bullet	Change: "Broken components and/or excessive wear or deformation are not observed in..." to "No structural damage is observed in..." Editorial: Clarify scope of statement
3.9-27	Subsection 3.9.2.5 1 st Paragraph, 3 rd Sentence	Change: "...and the design specification should provide assurance of the ..." to "...and the design specification provides assurance of the..." Editorial: Clarify scope of statement
3.9-27	Subsection 3.9.2.5.1 3 rd Paragraph, 2 nd Sentence	Change: "This includes the representation..." to "The model includes representation..." Editorial: Clarify scope of statement
3.9-28	Subsection 3.9.2.5.1 9 th Paragraph, 2 nd Sentence	Change: "...of the reactor internals can withstand the dynamic..." to "...of the reactor internals are verified to be capable of withstanding the dynamic..." Editorial: Clarify scope of statement
3.9-29	Subsection 3.9.2.5.2 7 th Paragraph, 4 th Bullet	Change: "... (pressure, flow rate, and so on)..." to "... pressure, flow rate, and other parameters)..." Editorial: Clarify scope of statement
3.9-30	Subsection 3.9.2.6 1 st Paragraph Last sentence	Delete: "The computed vibration response of the core barrel with the best estimate damping coefficient, agreed with the measured results." Editorial: Remove superfluous sentence

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-31	Subsection 3.9.3 2 nd Paragraph, 1 st Sentence	Change: "... (Reference 3.9-27) regulatory requirements for... as described within this subsection in the following regard:" to "... (Reference 3.9-27) criteria for... as described in this subsection in the following respects:" Editorial: Clarify scope of subject
3.9-31	Subsection 3.9.3 2 nd Paragraph, 1 st Bullet, 2 nd Sentence	Change: "The CFR requirements..." to "These requirements..." Editorial: Remove superfluous word
3.9-31	Subsection 3.9.3 2 nd Paragraph, 2 nd Bullet, 2 nd Sentence	Change: "The CFR requirements are met in the design of components and..." to "These requirements are met by designing the components and..." Editorial: Clarify scope of statement
3.9-31	Subsection 3.9.3 2 nd Paragraph, 3 rd Bullet, 2 nd Sentence	Change: "...and shown capable of performing..." to "...and the components and structures are shown capable of performing..." Editorial: Clarify scope of statement
3.9-32	Subsection 3.9.3 2 nd Paragraph, 6 th Bullet, 2 nd Sentence	Change: "...the certified design is assured." to "...the certified design requirements are assured." Editorial: Clarify scope of statement
3.9-32	Subsection 3.9.3 2 nd Paragraph, 7 th Bullet, 1 st Sentence	Change: "...that a design criterion application..." to "...that a design certification application..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)</p>	<p align="center">Description of Change</p>
<p>3.9-32</p>	<p>Subsection 3.9.3 2nd Paragraph, 8th Bullet</p>	<p>Change: “10 CFR 52.80(a) (Reference 3.9-32), which requires that a COL application contain the proposed inspections, tests, and analyses, including those applicable to emergency planning that the licensee is to perform, and the acceptance criteria that are necessary and sufficient to provide reasonable assurance that, if the inspections, tests, and analyses are performed and the acceptance criteria met, the facility has been constructed and will operate in conformity with the COL, the provisions of the Atomic Energy Act, and the NRC’s regulations. The COL Applicant is required to provide the required ITAACs to assure that the facility constructed operates and will continue to operate to the certified design conditions.” to “Proposed inspections, tests, and analyses which satisfy 10 CFR 52.80(a) (Reference 3.9-32) are discussed in Subsection 14.3, including those applicable to emergency planning as discussed in Subsection 13.3 that the licensee is to perform, and the acceptance criteria that are necessary and sufficient to provide reasonable assurance that, if the inspections, tests, and analyses are performed and the acceptance criteria are met, the facility is constructed and will operate in conformity with the provisions of the Atomic Energy Act and the NRC’s regulations. The proposed ITAAC will assure that the facility is constructed, operates, and will continue to operate to the certified design conditions.”</p> <p>Editorial: Remove supplement from FSAR and superfluous word in DCD and editorial changes</p>
<p>3.9-32</p>	<p>Subsection 3.9.3 5th Paragraph</p>	<p>Change: “The licensee, or the licensee’s authorized agent, is responsible for developing design specifications ... under the ASME Code, Section III (Reference 3.9-1) rules.” to “The seismic and accident load conditions for primary components and piping design are summarized in Reference 3.9-58 and the stress analysis results for components and piping are summarized in Reference 3.9-59.”</p> <p>Editorial: Clarify provision of reference documents</p>
<p>3.9-33</p>	<p>Subsection 3.9.3.1.1 1st Paragraph, 1st Sentence</p>	<p>Change: “As indicated in Subsection 3.9.1 for mechanical components, ASME classifications...” to “As indicated in Subsection 3.9.1, mechanical components, classifications...”</p> <p>Editorial: Clarify scope of statement</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.9-33	Subsection 3.9.3.1.1 2 nd Paragraph, 1 st Sentence	Change: "Two occurrences of an SSE are used in the..." to "Two occurrences of an SSE are assumed in the..." Editorial: Clarify scope of statement
3.9-34	Subsection 3.9.3.1 Footnote # 3, 4 th Sentence	Change: "In certain cases for non-standard SSCs, the 1/3 SSE may be adjusted higher for plant specific site as justified in COL application per SECY 93-087 (Reference 3.9-17)." to "In certain cases for non-standard SSCs, the 1/3 SSE may be adjusted higher for site-specific design as permitted by SECY 93-087 (Reference 3.9-17)." Editorial: Remove superfluous word and editorial changes.
3.9-37	Subsection 3.9.3.1.2 9 th Paragraph, 3 rd Sentence	Change: "...these components to provide integrity for the RCS." to "...these components to assure the integrity of the RCS." Editorial: Clarify scope of subject
3.9-38	Subsection 3.9.3.1.3 4 th Paragraph, 1 st Sentence	Change: "The environmental impact on fatigue of..." to "The assessment of the environmental impact on fatigue of..." Editorial: Clarify scope of statement
3.9-39	Subsection 3.9.3.1.4 5 th Paragraph, 1 st Sentence	Change: "...eliminating postulated pipe breaks." to "...eliminating postulated breaks in that piping." Editorial: Clarify scope of subject
3.9-39	Subsection 3.9.3.1.5 1 st Paragraph 3 rd Sentence	Add new 4 th sentence: "Table 3.9-8 provides the stress criteria for these components." Editorial: Clarify scope of statement
3.9-40	Subsection 3.9.3.2.1 2 nd Paragraph, 1 st Sentence	Change: "The safety valves..." to "The pressurizer safety valves..." Editorial: Clarify scope of statement
3.9-42	Subsection 3.9.3.3.1 1 st Paragraph, 2 nd Sentence	Change: "Inactive components are those whose ..." to "Inactive pumps are those whose ..." Editorial: Correct subject matter of sentence
3.9-42	Subsection 3.9.3.3.1 1 st Paragraph, 3 rd Sentence	Add the following sentence after the last sentence: "The COL Applicant is to identify the site-specific active pumps." Editorial: Provide consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-42	Subsection 3.9.3.3.2 1 st Paragraph, 2 nd Sentence	Change: "Inactive components are those whose ..." to "Inactive valves are those whose ..." Editorial: Correct subject matter of sentence
3.9-44	Subsection 3.9.3.4 2 nd Paragraph, 3 rd Sentence	Change: "The support design will follow the intent and general requirement specified ..." to "The support design follows the intent and general requirements specified ..." Editorial: Correct verbiage of sentence
3.9-44	Subsection 3.9.3.4 2 nd Paragraph, 4 th Sentence	Change: "This is used to evaluate ..." to "These requirements are used to evaluate ..." Editorial: Clarify subject matter of sentence
3.9-46	Subsection 3.9.3.4.2.1 3 rd Paragraph, 1 st Bullet	Change: "Load cycles which the snubber will experience during normal plant operating conditions is small (less than 2,500) or motion during normal plant ..." to "The number of load cycles that the snubber will experience during normal plant operating conditions is small (less than 2,500), or if the motion during normal plant ..." Editorial: Clarified scope of statement
3.9-46	Subsection 3.9.3.4.2.5 1 st Paragraph	Change: "...mechanical properties as provided in the above Subsections:" to "...mechanical properties of the snubbers as provided in the above subsections:" Editorial: Clarified statement and fixed incorrect title case
3.9-47	Subsection 3.9.3.4.2.5 1 st Paragraph	Add new paragraph below: "The COL Applicant is to assure snubber functionality in harsh service conditions, including snubber materials (e.g., lubricants, hydraulic fluids, seals)." Editorial: Provided consistent COL Applicant action and words
3.9-47	Subsection 3.9.3.4.2.6 1 st Paragraph, 5 th Sentence	Change: "The preparation and submittal of a program for the inservice testing and examination of snubbers is the responsibility of the COL Applicant referencing the US-APWR design." to "The examination and test procedures for the snubber is included in the IST program plan, developed per the implementation schedule as described in Chapter 13, Section 13.4." Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-48	Subsection 3.9.3.4.2.7 2 nd Paragraph, 6 th Item	Change: "The COL Applicant is responsible for assuring that specific environmental... harsh service conditions. These harsh service conditions can include high level radiation, areas and provisions for snubber material service including seals and fluids require evaluation and life projection." to " Specific environmental... harsh service conditions. See Subsection 3.9.3.4.2.5." Editorial: Provided consistent COL Applicant action and wording
3.9-49	Subsection 3.9.3.4.2.9 1 st Paragraph, 3 rd Sentence	Delete sentence in its entirety: "The COL Applicant is responsible for assuring the required ASME snubber test and examination program is performed at required Technical Specification intervals." Editorial: Deleted superfluous text, redundant actions
3.9-50	Subsection 3.9.3.4.5 2 nd Paragraph, 1 st Bullet, 4 th Sentence	Change: "Table 3.9-5..." to "Table 3.9-1..." Editorial: Correct location
3.9-52	Subsection 3.9.3.4.6.1 2 nd Paragraph	Change: "Subsection 5.4.10, provides a description of the supports for the RV, SG, and pressurizer. The supports are modeled using elements such as beams, plates, and springs, where applicable." to "The class 1 component supports are modeled using elements such as beams, plates, and springs, where applicable." Editorial: Clarify scope of subject
3.9-55	Subsection 3.9.4.1.1 6 th Paragraph, 2 nd Sentence	Change: "The US-APWR CRDM design is improved as follows." to "The US-APWR CRDM design is improved in comparison to standard CRDM designs as follows." Editorial: Provided clarification
3.9-56	Subsection 3.9.4.1.1 7 th Paragraph, 3 rd Item, 1 st Paragraph, 2 nd Sentence	Change: "This includes a coupling device to connect with ..." to "The assembly includes a coupling device to connect with ..." Editorial: Provided clarification
3.9-57	Subsection 3.9.4.1.2 1 st Paragraph	Change: "The withdrawal sequence is described as follows." to "The control rod withdrawal sequence is described as follows." Editorial: Provided clarification
3.9-58	Subsection 3.9.4.1.3 1 st Paragraph	Change: "Insertion sequence is as follows." to "The control rod insertion sequence is as follows." Editorial: Provided clarification

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-58	Subsection 3.9.4.1.3 2 nd Paragraph, 1 st and 2 nd Sentences	Change: "... the movable gripper coil energized). The movable gripper latches ..." to "... the movable gripper coil energized), the movable gripper latches ..." Editorial: Provided clarification
3.9-59	Subsection 3.9.4.1.4 2 nd Paragraph, 2 nd Sentence	Change: "...and without support, the RCCA will insert, "scram." to "...and without support, the RCCA will insert, causing a "scram." Editorial: Provided clarification
3.9-60	Subsection 3.9.4.2 2 nd Paragraph, 1 st Sentence	Change: "The materials are discussed in Subsection 4.5.1 and Subsection 5.2.3." to "The CRDM materials are discussed in Subsection 4.5.1." Editorial: Provided clarification
3.9-62	Subsection 3.9.4.3 1 st Paragraph 3 rd Sentence	Change: "...and shown in Tables 3.9-7 and 3.9-8." to "...and shown in Tables 3.9-9 and 3.9-10." Editorial: Correct Table numbers.
3.9-62	Subsection 3.9.4.4 3 rd Paragraph, 3 rd Bullet, 2 nd Sentence	Change: "This can be estimated ..." to "This delay time can be estimated ..." Editorial: Provided clarification
3.9-63	Subsection 3.9.5.1 1 st Paragraph, 1 st Sentence	Change: "The reactor internals design arrangements for the US-APWR ..." to "The reactor internals for the US-APWR ..." Editorial: Remove superfluous words
3.9-65	Subsection 3.9.5.1.1 1 st Paragraph, 2 nd Sentence	Change: "... the upper core support plate assembly ..." to "... the upper core support assembly ..." Editorial: Remove unrelated word
3.9-66	Subsection 3.9.5.1.1 6 th Paragraph 7 th Sentence	Change: "...excessive vibration of the RCCA from fuel assembly reactor coolant flow." to "...excessive vibrations of the RCCA due to the flow from fuel assemblies." Editorial: Clarify scope of statement
3.9-67	Subsection 3.9.5.1.2 4 th Paragraph, 1 st Sentence	Change: "... number of threaded fasteners and neutron reflectivity improvement from currently operating PWR plants." to "... number of threaded fasteners, and an improvement in neutron reflectivity, from the design of currently operating PWR plants." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-67	Subsection 3.9.5.1.2 4 th Paragraph, 11 th Sentence	Change: "They are also sized ..." to "The holes are also sized ..." Editorial: Clarify scope of statement
3.9-70	Subsection 3.9.5.2.1 1 st Paragraph, 3 rd Sentence	Change: "Table 3.9-2..." to "Table 3.9-9..." Editorial: Correct table number
3.9-70	Subsection 3.9.5.2.2 2 nd Paragraph, 3 rd Sentence	Change: "... then alternate acceptance criteria based on validation ... with similar designs are employed." to "... then alternate acceptance criteria are employed based on validation ... with similar designs." Editorial: Clarify scope of statement
3.9-74	Subsection 3.9.5.3.4 4 th Paragraph, 2 nd Sentence	Change: "Also fatigue strength degradation that accounts for water chemistry ..." to "Also fatigue strength degradation due to water chemistry ..." Editorial: Clarify scope of statement
3.9-75	Subsection 3.9.5.3.12.1 1 st Paragraph, 3 rd Sentence	Change: "In addition, visual inspection of critical welds ..." to "In addition, critical welds ..." Editorial: Remove superfluous words
3.9-75	Subsection 3.9.5.3.13	Change: Delete the entire subsection Editorial: Not a required DCD or FSAR statement
3.9-76	Subsection 3.9.6 3 rd Paragraph, 2 nd Sentence	Change: "The edition and addenda to be used for the IST program is administratively controlled by the COL Applicant." to " The COL Applicant is to administratively control the edition and addenda to be used for IST program plan for pumps, valves, and dynamic restraints." Editorial: Provided consistent COL Applicant action and wording
3.9-77	Subsection 3.9.6.2 3 rd Paragraph, 1 st Sentence	Delete: "The pump test program is controlled administratively by the COL Applicant and is based on the program plan outlined in this subsection." Editorial: Provided consistent COL Applicant action and wording
3.9-77	Subsection 3.9.6.2 3 rd Paragraph	Add new paragraph below: "The COL Applicant is to provide the site-specific, safety-related pump IST parameters and frequency." Editorial: Provide consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-77	Subsection 3.9.6.3 2 nd Paragraph, 1 st Sentence	Delete: "The valve test program is controlled administratively by the COL Applicant and is based on the program plan outlined in this subsection Editorial: Provided consistent COL Applicant action and wording
3.9-77	Subsection 3.9.6.3 4 th Paragraph, 1 st Sentence	Change: "Relief from the requirements for testing, if required, and ..." to "Relief from the requirements for testing, if needed, and ..." Editorial: Clarify scope of statement
3.9-77	Subsection 3.9.6.3 4 th Paragraph	Add new paragraph below: "The COL Applicant is to provide type of testing and frequency of site-specific valves subject to IST in accordance with the ASME Code." Editorial: Provided consistent COL Applicant action and wording
3.9-79	Subsection 3.9.6.3 <u>Valve Functions Tested</u> 6 th Paragraph, 4 th Sentence	Change: "The alternate method and justification is to be identified during COL." to "The COL Applicant is to provide alternate method of valve position indicator operation and justification for valves in the IST program plan." Editorial: Provided consistent COL Applicant action and wording.
3.9-79	Subsection 3.9.6.3.1 3 rd Paragraph, 2 nd Sentence	Change: "...is to assure MOVs that may require...technique are identified." to "...is to identify MOVs that require...technique." Editorial: Provided consistent COL Applicant action and wording
3.9-80	Subsection 3.9.6.3.3 <u>Check Valve Disassembly and Inspection</u> 1 st Paragraph	Change "The COL Applicant is to identify in the IST Program, which valves require periodic valve disassembly and inspection. An evaluation by the COL Applicant is to determine which of the valves identified in the IST Program in Table 3.9-14 require disassembly and inspection, and the frequency of the inspection." to "The IST program plan identifies which valves require periodic valve disassembly and inspection, and the frequency of inspection is documented in Table 3.9-14." Editorial: This sentence was not linked to any COL item and Editorial changes.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-81	Subsection 3.9.6.3.5 1 st Paragraph, 5 th Sentence	Change “The COL Applicant is to develop a program to identify scope, exception and changes in accordance with 10 CFR 50, Appendix J.” to “The IST program plan as defined in Subsection 3.9.6.3, identifies scope, exceptions and changes in accordance with 10 CFR 50, Appendix J (Reference 3.9-56).” Editorial: This sentence was not linked to any COL item and Editorial changes.
3.9-82	Subsection 3.9.6.4 2 nd Paragraph	Change: “The IST Program Plan is a COL item, hence, it not discussed herein.” to “The COL Applicant is to provide the program plan for IST of dynamic restraints in accordance with ASME OM Code (Reference 3.9-14).” Editorial: Provided consistent COL Applicant action and wording
3.9-82	Subsection 3.9.9 COL 3.9(1)	Change: “ <i>The COL Applicant is responsible for assuring that specific environmental design considerations and snubber functionality is assured under harsh service conditions.</i> ” to “ <i>The COL Applicant is to assure snubber functionality in harsh service conditions including snubber materials (e.g., lubricants, hydraulic fluids, seals).</i> ” Editorial: Provided consistency
3.9-82	Subsection 3.9.9 COL 3.9(2)	Change: “ <i>The first US-APWR internals... for Non-Prototype internals.</i> ” to “ <i>The first COL Applicant is to commit to implement a pre-operational vibration assessment program and to prepare the final report consistent with guidance of RG 1.20 for a prototype. Subsequent COL Applicant need only provide information in accordance with the applicable portion of position C.3 of RG 1.20 for Non-Prototype internals.</i> ” Editorial: Provided consistent COL Applicant action and wording
3.9-82	Subsection 3.9.9 COL 3.9(3)	Change: “ <i>The COL Applicant is responsible for assuring the required ASME snubber test and examination program is performed at required Technical Specification intervals.</i> ” to “ <i>Deleted</i> ” Editorial: Provide consistency with COL Item

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.9-82	Subsection 3.9.9 COL 3.9(4)	Change: <i>"It is the responsibility of the COL Applicant to assure any materials used for a snubber, including lubricants, hydraulic fluids, and seals, are required to survive in a radioactive environment without any adverse effect on their structural and mechanical properties, and functionality."</i> to <i>"Deleted"</i> Editorial: Removed superfluous COL Applicant action and wording compared to COL 3.9(1).
3.9-82	Subsection 3.9.9 COL 3.9(5)	Change: <i>"The COL Applicant is to review the Program Plan for IST of Pumps and Valves in Tables 3.9-13 and 3.9-14, respectively, and revise as necessary with the actual vendor information obtained during detail design phase."</i> to <i>"Deleted"</i> Editorial: Removed superfluous COL Applicant action and wording
3.9-82	Subsection 3.9.9 COL 3.9(6)	Change: <i>"... Code (Reference 3.9-14)."</i> to <i>"...Code."</i> Editorial: Provided consistent COL Applicant action and wording
3.9-82	Subsection 3.9.9 COL 3.9(7)	Change: <i>"...method and justification (if any) for valves in IST program plan."</i> to <i>"...method of valve position indicator operation and justification for valves in the IST program plan."</i> Editorial: Provided consistent COL Applicant action and wording
3.9-83	Subsection 3.9.9 COL 3.9(7)	Insert new COL item below: <i>"3.9(8) The COL Applicant is to administratively control the edition and addenda to be used for the IST program plan for pumps, vavles, and dynamic restraints"</i> Editorial: Provided consistent COL Applicant action and wording
3.9-83	Subsection 3.9.9 COL 3.9(7)	Insert new COL item below: <i>"3.9(9) The COL Applicant is to identify MOVs that require non-intrusive diagnostic testing technique."</i> Editorial: Provided consistent COL Applicant action and wording
3.9-83	Subsection 3.9.9 COL 3.9(7)	Insert new COL item below: <i>"3.9(10) The COL Applicant is to identify the site-specific active pumps."</i> Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-83	Subsection 3.9.9 COL 3.9(7)	Insert new COL item below: “3.9(11) <i>The COL Applicant is to provide site-specific, safety-related pump IST parameters and frequency.</i> ” Editorial: Provided consistent COL Applicant action and wording
3.9-83	Subsection 3.9.9 COL 3.9(7)	Insert new COL item below: “3.9(12) <i>The COL Applicant is to provide type of testing and frequency of site-specific valves subject to IST in accordance with the ASME Code.</i> ” Editorial: Provided consistent COL Applicant action and wording
3.9-87	Subsection 3.9.10 Reference 3.9-56	Insert new reference below: “3.9-57 <u>Summary of Design Transient</u> , Mitsubishi Heavy Industries, January 2009.” Editorial: Identify new references
3.9-87	Subsection 3.9.10 Reference 3.9-56	Insert new reference below: “3.9-58 <u>Summary of Seismic and Accident Load Conditions for Primary Components and Piping Design</u> , Mitsubishi Heavy Industries, January 2009.” Editorial: Identify new references
3.9-87	Subsection 3.9.10 Reference 3.9-56	Insert new reference below: “3.9-59 <u>Summary of Stress Analysis Results for Components and Piping</u> , Mitsubishi Heavy Industries, March 2009.” Editorial: Identify new references
3.9-88	Table 3.9-1 (Sheet 1) 18 th Row, 2 nd Column	Change: “6 x 10 ⁶ ” to “8 x 10 ⁵ ” Editorial: Correct typographical error
3.9-89	Table 3.9-1 (Sheet 2) 10 th Row, 2 nd Column	Change: “30” to “700” Editorial: Correct typographical error
3.9-93	Table 3.9-5 (Sheet 1) 9 th Row, 2 nd Column	Change: “Service Level A Loads and Open Relief Valve Dynamic Loads that are Service Level B” to “Design Mechanical Loads other than DL. This includes Service Level A Loads and Open Relief Valve Dynamic Loads that are Service Level B” Editorial: Clarify scope of statement.
3.9-96	Table 3.9-7 (Sheet 1) 3 rd Row, 1 st Column	Change: “B-Charging Pump B” to “B-Charging Pump” Editorial: Correct typographical error
3.9-97	Table 3.9-7 (Sheet 2) 9 th Row, 5 th Column	Change: “OFF” to “ON/OFF” Editorial: Correct post LOCA mode description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-97	Table 3.9-7 (Sheet 2) 10 th Row, 5 th Column	Change: "OFF" to "ON/OFF" Editorial: Correct post LOCA mode description
3.9-97	Table 3.9-7 (Sheet 2) 11 th Row, 5 th Column	Change: "OFF" to "ON" Editorial: Correct post LOCA mode description
3.9-97	Table 3.9-7 (Sheet 2) 12 th Row, 5 th Column	Change: "OFF" to "ON" Editorial: Correct post LOCA mode description
3.9-97	Table 3.9-7 (Sheet 2) 13 th Row, 5 th Column	Change: "OFF" to "ON" Editorial: Correct post LOCA mode description
3.9-97	Table 3.9-7 (Sheet 2) 14 th Row, 5 th Column	Change: "OFF" to "ON" Editorial: Correct post LOCA mode description
3.9-98	Table 3.9-7 (Sheet 3) 2 nd Row, 3 rd Column	Add: "3" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 2 nd Row, 4 th Column	Change: "3" to "ON/OFF" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 3 rd Row, 3 rd Column	Add: "3" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 3 rd Row, 4 th Column	Change: "3" to "ON/OFF" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 4 th Row, 3 rd Column	Add: "3" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 4 th Row, 4 th Column	Change: "3" to "ON/OFF" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 5 th Row, 3 rd Column	Add: "3" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 5 th Row, 4 th Column	Change: "3" to "ON/OFF" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 6 th Row, 3 rd Column	Add: "3" Editorial: Correct typographical error
3.9-98	Table 3.9-7 (Sheet 3) 6 th Row, 4 th Column	Change: "3" to "ON/OFF" Editorial: Correct typographical error

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.9-98	Table 3.9-7 (Sheet 3) 7 th Row	Delete row in its entirety: "A-Charging Pump; CVCS; 3; OFF; Required For Supply RCP Seal Cooling at Accident Except Large Loca " Editorial: Correct typographical error
3.9-102	Table 3.9-11 All Rows, 7 th Column	Delete 7 th Column "Testing" in its entirety Editorial: Delete unnecessary column
3.9-102	Table 3.9-11 4 th Footnote	Add new 5 th footnote: "5. The Hot Functional Test Condition can be enveloped by the limits for Level A." Editorial: Added necessary footnote
3.9-108	Table 3.9-13 (Sheet 5) 4 th Row, 10 th Column	Change: "Table ISTB 5221..." to "Table ISTB 5121..." Editorial: Correct acceptance criteria description
3.9-108	Table 3.9-13 (Sheet 5) 5 th Row, 10 th Column	Change: "Table ISTB 5221..." to "Table ISTB 5121..." Editorial: Correct acceptance criteria description
3.9-109	Table 3.9-13 (Sheet 6) 2 nd Row, 10 th Column	Change: "Table ISTB 5221..." to "Table ISTB 5121..." Editorial: Correct acceptance criteria description
3.9-109	Table 3.9-13 (Sheet 6) 3 rd Row, 1 st Column	Change: "RWS-RRP-001A" to "RWS-RRP-001B" Editorial: Correct grammatical error
3.9-109	Table 3.9-13 (Sheet 6) 3 rd Row, 10 th Column	Change: "Table ISTB 5221..." to "Table ISTB 5121..." Editorial: Correct acceptance criteria description
3.9-109	Table 3.9-13 (Sheet 6) 4 th Row, 10 th Column	Change: "Table ISTB 5221..." to "Table ISTB 5121..." Editorial: Correct acceptance criteria description
3.9-110	Table 3.9-13 (Sheet 7) 2 nd Row, 10 th Column	Change: "Table ISTB 5221..." to "Table ISTB 5121..." Editorial: Correct acceptance criteria description
3.9-110	Table 3.9-13 (Sheet 7) 3 rd Row, 10 th Column	Change: "Table ISTB 5221..." to "Table ISTB 5121..." Editorial: Correct acceptance criteria description
3.9-110	Table 3.9-13 (Sheet 7) 4 th Row, 10 th Column	Change: "Table ISTB 5221..." to "Table ISTB 5121..." Editorial: Correct acceptance criteria description
3.9-113	Table 3.9-14 (Sheet 3) 4 th Row	Delete Row in its entirety Editorial: Delete unnecessary values for IST
3.9-113	Table 3.9-14 (Sheet 3) 5 th Row	Delete row in its entirety Editorial: Delete unnecessary values for IST
3.9-121	Table 3.9-14 (Sheet 11) 2 nd Row, 4 th Column	Add: "Transfer Open" Editorial: Correct Safety-Related description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-121	Table 3.9-14 (Sheet 11) 5 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-122	Table 3.9-14 (Sheet 12) 2 nd Row, 4 th Column	Add: "Transfer Open Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-122	Table 3.9-14 (Sheet 12) 3 rd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-122	Table 3.9-14 (Sheet 12) 4 th Row, 4 th Column	Add: "Transfer Open Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-123	Table 3.9-14 (Sheet 13) 2 nd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-123	Table 3.9-14 (Sheet 13) 3 rd Row, 4 th Column	Add: "Transfer Open Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-123	Table 3.9-14 (Sheet 13) 4 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-124	Table 3.9-14 (Sheet 14) 2 nd Row, 4 th Column	Add: "Transfer Open Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-125	Table 3.9-14 (Sheet 15) 2 nd Row 4 th Column	Delete: "Transfer Close" Editorial: Correct Safety-Related Missions description
3.9-125	Table 3.9-14 (Sheet 15) 2 nd Row	Add in new 3 rd row below: "CVS-AOV-196A; Reactor coolant pump seal return line isolation; Remote; Maintain Close Transfer Close; Active-to-Fail Remote Position; B; Remote Position Indication, Exercise/2 Years Exercise Full Stroke/Cold Shutdown Operability Test; 7 " Editorial: Correct erroneously omit

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-125	Table 3.9-14 (Sheet 15) 3 rd Row	Add in new 4 th row below: "CVS-AOV-196B; Reactor coolant pump seal return line isolation; Remote; Maintain Close Transfer Close; Active-to-Fail Remote Position; B; Remote Position Indication, Exercise/2 Years Exercise Full Stroke/Cold Shutdown Operability Test; 7" Editorial: Correct erroneously omit
3.9-125	Table 3.9-14 (Sheet 15) 4 th Row	Add in new 5 th row below: "CVS-AOV-196C; Reactor coolant pump seal return line isolation; Remote; Maintain Close Transfer Close; Active-to-Fail Remote Position; B; Remote Position Indication, Exercise/2 Years Exercise Full Stroke/Cold Shutdown Operability Test; 7" Editorial: Correct erroneously omit
3.9-126	Table 3.9-14 (Sheet 16) 1 st Row	Add in new 2 nd row below: "CVS-AOV-196D; Reactor coolant pump seal return line isolation; Remote; Maintain Close Transfer Close; Active-to-Fail Remote Position; B; Remote Position Indication, Exercise/2 Years Exercise Full Stroke/Cold Shutdown Operability Test; 7" Editorial: Correct erroneously omit
3.9-126	Table 3.9-14 (Sheet 16) 3 rd Row, 4 th Column	Delete: "Transfer Close" Editorial: Correct Safety-Related Missions description
3.9-127	Table 3.9-14 (Sheet 17) 2 nd Row, 4 th Column	Delete: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-127	Table 3.9-14 (Sheet 17) 3 rd Row, 4 th Column	Delete: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-129	Table 3.9-14 (Sheet 19) 5 th Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-129	Table 3.9-14 (Sheet 19) 6 th Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-129	Table 3.9-14 (Sheet 19) 7 th Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-129	Table 3.9-14 (Sheet 19) 8 th Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-130	Table 3.9-14 (Sheet 20) 2 nd Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-130	Table 3.9-14 (Sheet 20) 3 rd Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-130	Table 3.9-14 (Sheet 20) 4 th Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-130	Table 3.9-14 (Sheet 20) 5 th Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-130	Table 3.9-14 (Sheet 20) 6 th Row, 4 th Column	Delete: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-131	Table 3.9-14 (Sheet 21) 2 nd Row, 4 th Column	Delete: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-133	Table 3.9-14 (Sheet 23) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-133	Table 3.9-14 (Sheet 23) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-133	Table 3.9-14 (Sheet 23) 4 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-133	Table 3.9-14 (Sheet 23) 5 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-140	Table 3.9-14 (Sheet 30) 3 rd Row, 5 th Column	Add: "Remote Position" Editorial: Correct erroneously omit

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-140	Table 3.9-14 (Sheet 30) 4 th Row, 5 th Column	Add: "Remote Position" Editorial: Correct erroneously omit
3.9-140	Table 3.9-14 (Sheet 30) 5 th Row, 5 th Column	Add: "Remote Position" Editorial: Correct erroneously omit
3.9-141	Table 3.9-14 (Sheet 30) 2 nd Row, 5 th Column	Add: "Remote Position" Editorial: Correct erroneously omit
3.9-141	Table 3.9-14 (Sheet 31) 3 rd Row, 7 th Column	Change: "/Quarterly" to "/Hot Shutdown" Editorial: Change Test Frequency
3.9-141	Table 3.9-14 (Sheet 31) 3 rd Row, 8 th Column	Add: "13" Editorial: Correct IST Notes description
3.9-141	Table 3.9-14 (Sheet 31) 4 th Row, 7 th Column	Change: "/Quarterly" to "/Hot Shutdown" Editorial: Change Test Frequency
3.9-141	Table 3.9-14 (Sheet 31) 4 th Row, 8 th Column	Add: "13" Editorial: Correct IST Notes description
3.9-141	Table 3.9-14 (Sheet 31) 5 th Row, 7 th Column	Change: "/Quarterly" to "/Hot Shutdown" Editorial: Change Test Frequency
3.9-141	Table 3.9-14 (Sheet 31) 5 th Row, 8 th Column	Add: "13" Editorial: Correct IST Notes description
3.9-142	Table 3.9-14 (Sheet 32) 2 nd Row, 7 th Column	Change: "/Quarterly" to "/Hot Shutdown" Editorial: Change Test Frequency
3.9-142	Table 3.9-14 (Sheet 32) 2 nd Row, 8 th Column	Add: "13" Editorial: Correct IST Notes description
3.9-144	Table 3.9-14 (Sheet 34) 4 th Row, 1 st Column	Change: "SIS-VLV-114" to "SIS-AOV-114" Editorial: Correct valve inservice test program

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-144	Table 3.9-14 (Sheet 34) 4 th Row, 3 rd Column	Change: "Manual" to "Remote" Editorial: Correct valve inservice test program
3.9-144	Table 3.9-14 (Sheet 34) 4 th Row, 4 th Column	Add: "Transfer Close" Editorial: Correct valve inservice test program
3.9-144	Table 3.9-14 (Sheet 34) 4 th Row, 5 th Column	Change: "Passive" to "Active-to-Fail" Add: Remote Position" Editorial: Correct valve inservice test program
3.9-144	Table 3.9-14 (Sheet 34) 4 th Row, 7 th Column	Add: "Remote Position Indication Exercise/2years" and "Exercise Full Stroke/Cold Shutdown Operability Test" Editorial: Correct valve inservice test program
3.9-144	Table 3.9-14 (Sheet 34) 4 th Row, 8 th Column	Add: "6" Editorial: Correct valve inservice test program
3.9-144	Table 3.9-14 (Sheet 34) 5 th Row, 4 th Column	Add: "Transfer Close" Editorial: Correct valve inservice test program
3.9-144	Table 3.9-14 (Sheet 34) 5 th Row, 5 th Column	Change: "Passive" to "Active" Editorial: Correct valve inservice test program
3.9-144	Table 3.9-14 (Sheet 34) 5 th Row, 7 th Column	Add: "Check Exercise/Refueling Outage" Editorial: Correct valve inservice test program
3.9-144	Table 3.9-14 (Sheet 34) 5 th Row, 8 th Column	Add: "3" Editorial: Correct valve inservice test program
3.9-147	Table 3.9-14 (Sheet 37) 4 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-147	Table 3.9-14 (Sheet 37) 5 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-148	Table 3.9-14 (Sheet 38) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-148	Table 3.9-14 (Sheet 38) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-149	Table 3.9-14 (Sheet 39) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-149	Table 3.9-14 (Sheet 39) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-150	Table 3.9-14 (Sheet 40) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-150	Table 3.9-14 (Sheet 40) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-151	Table 3.9-14 (Sheet 41) 5 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-152	Table 3.9-14 (Sheet 42) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-152	Table 3.9-14 (Sheet 42) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-152	Table 3.9-14 (Sheet 42) 4 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-159	Table 3.9-14 (Sheet 49) 5 th Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-160	Table 3.9-14 (Sheet 50) 2 nd Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-160	Table 3.9-14 (Sheet 50) 3 rd Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-160	Table 3.9-14 (Sheet 50) 4 th Row, 4 th Column	Add: "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-161	Table 3.9-14 (Sheet 51) 5 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-162	Table 3.9-14 (Sheet 52) 2 nd Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-163	Table 3.9-14 (Sheet 53) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-163	Table 3.9-14 (Sheet 53) 4 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-163	Table 3.9-14 (Sheet 53) 5 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-163	Table 3.9-14 (Sheet 53) 6 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-163	Table 3.9-14 (Sheet 53) 7 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-163	Table 3.9-14 (Sheet 53) 8 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-164	Table 3.9-14 (Sheet 54) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-164	Table 3.9-14 (Sheet 54) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-164	Table 3.9-14 (Sheet 54) 4 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-164	Table 3.9-14 (Sheet 54) 5 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-164	Table 3.9-14 (Sheet 54) 6 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-164	Table 3.9-14 (Sheet 54) 7 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-165	Table 3.9-14 (Sheet 55) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-165	Table 3.9-14 (Sheet 55) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-165	Table 3.9-14 (Sheet 55) 4 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-165	Table 3.9-14 (Sheet 55) 5 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-165	Table 3.9-14 (Sheet 55) 6 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-165	Table 3.9-14 (Sheet 55) 7 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-166	Table 3.9-14 (Sheet 56) 1 st Row	Add new 2 nd Row below: "EFS-VLV-109A; Turbine driven emergency feedwater pump steam supply drain line check; Check; Transfer Open Transfer Close; Active; BC; Check Exercise/ Refueling Outage; 12"
3.9-166	Table 3.9-14 (Sheet 56) 2 nd Row	Add new 2 nd Row below: "EFS-VLV-109D; Turbine driven emergency feedwater pump steam supply drain line check; Check; Transfer Open Transfer Close; Active; BC; Check Exercise/ Refueling Outage; 12"

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-166	Table 3.9-14 (Sheet 56) 4 th Row	Delete row in its entirety Editorial: Delete unnecessary valves for IST
3.9-166	Table 3.9-14 (Sheet 56) 5 th Row	Delete row in its entirety Editorial: Delete unnecessary valves for IST
3.9-166	Table 3.9-14 (Sheet 56) 6 th Row	Delete row in its entirety Editorial: Delete unnecessary valves for IST
3.9-167	Table 3.9-14 (Sheet 57) 2 nd Row	Delete row in its entirety Editorial: Delete unnecessary valves for IST
3.9-167	Table 3.9-14 (Sheet 57) 3 rd Row, 7 th Column	Delete: "Exercise Part Stroke/Quarterly" Editorial: Correct Inservice testing type and frequency description
3.9-168	Table 3.9-14 (Sheet 58) 2 nd Row, 7 th Column	Delete: "Exercise Part Stroke/Quarterly" Editorial: Correct Inservice testing type and frequency description
3.9-168	Table 3.9-14 (Sheet 58) 3 rd Row, 7 th Column	Delete: "Exercise Part Stroke/Quarterly" Editorial: Correct Inservice testing type and frequency description
3.9-169	Table 3.9-14 (Sheet 59) 2 nd Row, 7 th Column	Delete: "Exercise Part Stroke/Quarterly" Editorial: Correct Inservice testing type and frequency description
3.9-169	Table 3.9-14 (Sheet 59) 3 rd Row	Delete row in its entirety Editorial: Delete unnecessary valves for IST
3.9-169	Table 3.9-14 (Sheet 59) 4 th Row	Delete row in its entirety Editorial: Delete unnecessary valves for IST
3.9-170	Table 3.9-14 (Sheet 60) 2 nd Row	Delete row in its entirety Editorial: Delete unnecessary valves for IST
3.9-170	Table 3.9-14 (Sheet 60) 3 rd Row	Delete row in its entirety Editorial: Delete unnecessary valves for IST

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-171	Table 3.9-14 (Sheet 61) 4 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-171	Table 3.9-14 (Sheet 61) 5 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-172	Table 3.9-14 (Sheet 62) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-172	Table 3.9-14 (Sheet 62) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-172	Table 3.9-14 (Sheet 62) 4 th Row, 7 th Column	Delete: "Exercise Part Stroke/Quarterly" Editorial: Correct Inservice testing type and frequency description
3.9-173	Table 3.9-14 (Sheet 63) 2 nd Row, 7 th Column	Delete: "Exercise Part Stroke/Quarterly" Editorial: Correct Inservice testing type and frequency description
3.9-173	Table 3.9-14 (Sheet 63) 3 rd Row, 7 th Column	Delete: "Exercise Part Stroke/Quarterly" Editorial: Correct Inservice testing type and frequency description
3.9-174	Table 3.9-14 (Sheet 64) 2 nd Row, 7 th Column	Delete: "Exercise Part Stroke/Quarterly" Editorial: Correct Inservice testing type and frequency description
3.9-174	Table 3.9-14 (Sheet 64) 3 rd Row, 4 th Column	Add: "Transfer Close" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 3 rd Row, 5 th Column	Change: "Passive" to "Active-to-Fail" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 3 rd Row, 7 th Column	Add: "Exercise Full Stroke/Cold Shutdown Operability Test" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 3 rd Row, 8 th Column	Add: "4" Editorial: Correct description of valve IST requirements

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-174	Table 3.9-14 (Sheet 64) 4 th Row, 4 th Column	Add: "Transfer Close" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 4 th Row, 5 th Column	Change: "Passive" to "Active-to-Fail" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 4 th Row, 7 th Column	Add: "Exercise Full Stroke/Cold Shutdown Operability Test" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 4 th Row, 8 th Column	Add: "4" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 5 th Row, 4 th Column	Add: "Transfer Close" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 5 th Row, 5 th Column	Change: "Passive" to "Active-to-Fail" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 5 th Row, 7 th Column	Add: "Exercise Full Stroke/Cold Shutdown Operability Test" Editorial: Correct description of valve IST requirements
3.9-174	Table 3.9-14 (Sheet 64) 5 th Row, 8 th Column	Add: "4" Editorial: Correct description of valve IST requirements
3.9-175	Table 3.9-14 (Sheet 65) 2 nd Row, 4 th Column	Add: "Transfer Close" Editorial: Correct Safety-Related Missions description
3.9-175	Table 3.9-14 (Sheet 65) 2 nd Row, 5 th Column	Change: "Passive" to "Active-To-Fail" Editorial: Correct Safety Function description
3.9-175	Table 3.9-14 (Sheet 65) 2 nd Row, 7 th Column	Add: "Exercise Full Stroke/ Cold Shutdown Operability Test" Editorial: Correct Test Frequency
3.9-175	Table 3.9-14 (Sheet 65) 2 nd Row, 8 th Column	Add: "4" Editorial: Correct IST Notes

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-184	Table 3.9-14 (Sheet 74) 2 nd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-184	Table 3.9-14 (Sheet 74) 3 rd Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-184	Table 3.9-14 (Sheet 74) 4 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-184	Table 3.9-14 (Sheet 74) 5 th Row, 4 th Column	Delete: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-185	Table 3.9-14 (Sheet 75) 6 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-186	Table 3.9-14 (Sheet 76) 2 nd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-186	Table 3.9-14 (Sheet 76) 3 rd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-186	Table 3.9-14 (Sheet 76) 4 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-186	Table 3.9-14 (Sheet 76) 5 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-187	Table 3.9-14 (Sheet 77) 2 nd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-187	Table 3.9-14 (Sheet 77) 3 rd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-187	Table 3.9-14 (Sheet 77) 4 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-187	Table 3.9-14 (Sheet 77) 5 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-188	Table 3.9-14 (Sheet 78) 2 nd Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-188	Table 3.9-14 (Sheet 78) 3 rd Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-188	Table 3.9-14 (Sheet 78) 4 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-188	Table 3.9-14 (Sheet 78) 4 th Row	Add in new 5 th row below: "NCS-MOV-316A; Charging Pump component cooling water return; Remote; Maintain Open; Remote Position; B; Remote Position Indication, Exercise/2 Years Exercise Full Stroke/Cold Shutdown Operability Test" Editorial: Correct erroneously omit
3.9-189	Table 3.9-14 (Sheet 79) 1 st Row	Add in new 2 nd row below: "NCS-MOV-316B; Charging Pump component cooling water return; Remote; Maintain Open; Remote Position; B; Remote Position Indication, Exercise/2 Years Exercise Full Stroke/Cold Shutdown Operability Test" Editorial: Correct erroneously omit
3.9-193	Table 3.9-14 (Sheet 83) 4 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-194	Table 3.9-14 (Sheet 84) 2 nd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-194	Table 3.9-14 (Sheet 84) 3 rd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-194	Table 3.9-14 (Sheet 84) 4 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-195	Table 3.9-14 (Sheet 85) 2 nd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-195	Table 3.9-14 (Sheet 85) 3 rd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-195	Table 3.9-14 (Sheet 85) 4 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-196	Table 3.9-14 (Sheet 86) 2 nd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-196	Table 3.9-14 (Sheet 86) 3 rd Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-196	Table 3.9-14 (Sheet 86) 4 th Row, 4 th Column	Add: "Maintain Open" Editorial: Correct Safety-Related Missions description
3.9-201	Table 3.9-14 (Sheet 91) 4 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-201	Table 3.9-14 (Sheet 91) 5 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-202	Table 3.9-14 (Sheet 92) 4 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-202	Table 3.9-14 (Sheet 92) 5 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-203	Table 3.9-14 (Sheet 93) 4 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description
3.9-203	Table 3.9-14 (Sheet 93) 5 th Row, 4 th Column	Change: "Maintain Open" to "Maintain Close" Editorial: Correct Safety-Related Missions description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-208	Table 3.9-14 (Sheet 98) 7 th Row, 4 th Column	Add: "Maintain Close" Editorial: Add missing information
3.9-208	Table 3.9-14 (Sheet 98) 8 th Row, 4 th Column	Add: "Maintain Close" Editorial: Add missing information
3.9-209	Table 3.9-14 (Sheet 99) 2 nd Row, 4 th Column	Add: "Maintain Close" Editorial: Add missing information
3.9-209	Table 3.9-14 (Sheet 99) 3 rd Row, 4 th Column	Add: "Maintain Close" Editorial: Add missing information
3.9-209	Table 3.9-14 (Sheet 99) 4 th Row, 4 th Column	Delete: "Transfer Close" Editorial: Correct Safety-Related Missions description
3.9-209	Table 3.9-14 (Sheet 99) 5 th Row, 4 th Column	Delete: "Transfer Close" Editorial: Correct Safety-Related Missions description
3.9-210	Table 3.9-14 (Sheet 100) 2 nd Row, 4 th Column	Delete: "Transfer Close" Editorial: Correct Safety-Related Missions description
3.9-210	Table 3.9-14 (Sheet 100) 3 rd Row, 4 th Column	Delete: "Transfer Close" Editorial: Correct Safety-Related Missions description
3.9-229	Table 3.9-14 (Sheet 119) 2 nd Row	Add in new 3 rd row below: "CAS-VLV-101; Station service air supply line containment isolation; Manual; Maintain Close; Containment Isolation Safety Seat Leakage; AC; Containment Isolation Leak Test; 5" Editorial: Correct erroneously omit
3.9-230	Table 3.9-14 (Sheet 120) 1 st Row	Add in new 1 st row below: "CAS-VLV-103; Station service air supply line containment isolation check; Check; Maintain Close; Containment Isolation Safety Seat Leakage; AC; Containment Isolation Leak Test; 5" Editorial: Correct erroneously omit

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-230	Table 3.9-14 (Sheet 120) 2 nd Row	Add in new 3 rd row below: "IGS-AOV-001; ICIGS line containment isolation; Remote; Maintain Close Transfer Close; Active-to-Fail Containment Isolation Safety Seat Leakage Remote Position; A; Remote Position Indication, Exercise/ 2 Years Containment Isolation Leak Test Exercise Full Stroke/Cold Shut down Operability Test; 5 6" Editorial: Correct erroneously omit
3.9-230	Table 3.9-14 (Sheet 120) 3 rd Row	Add in new 4 th row below: "IGS-AOV-002; ICIGS line containment isolation; Remote; Maintain Close Transfer Close; Active-to-Fail Containment Isolation Safety Seat Leakage Remote Position; A; Remote Position Indication, Exercise/ 2 Years Containment Isolation Leak Test Exercise Full Stroke/Cold Shut down Operability Test; 5 6 " Editorial: Correct erroneously omit
3.9-231	Table 3.9-14 (Sheet 121) 1 st Row	Add in new 2 nd row below: "LTS-VLV-001; LRTS line containment isolation; Manual; Maintain Close; Containment Isolation Safety Seat Leakage; A; Containment Isolation Leak Test; 5" Editorial: Correct erroneously omit
3.9-231	Table 3.9-14 (Sheet 121) 2 nd Row	Add in new 3 rd row below: "LTS-VLV-002; LRTS line containment isolation; Manual; Maintain Close; Containment Isolation Safety Seat Leakage; A; Containment Isolation Leak Test; 5" Editorial: Correct erroneously omit
3.9-231	Table 3.9-14 (Sheet 121) 3 rd Row	Add in new 4 th row below: "FSS-AOV-001; FPWSS line to filter unit containment isolation; Remote; Maintain Close Transfer Close; Active-to-Fail Containment Isolation Safety Seat Leakage Remote Position; A; Remote Position Indication, Exercise/2 Years Containment Isolation Leak Test Exercise Full Stroke/ Cold Shut down Operability Test; 5 6" Editorial: Correct erroneously omit
3.9-231	Table 3.9-14 (Sheet 121) 4 th Row	Add in new 5 th row below: "FSS-VLV-003; FPWSS line to filter unit containment isolation check; Check; Maintain Close Transfer Close; Active Containment Isolation Safety Seat Leakage; AC; Containment Isolation Leak Test Check Exercise/ Refueling Outage; 3 5" Editorial: Correct erroneously omit

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-231	Table 3.9-14 (Sheet 121) 5 th Row	Add in new 6 th row below: "FSS-MOV-004; FPWSS line to reactor cavity containment isolation; Remote; Maintain Close; Containment Isolation Safety Seat Leakage; A; Containment Isolation Leak Test; 5" Editorial: Correct erroneously omit
3.9-232	Table 3.9-14 (Sheet 122) 1 st Row	Add in new 2 nd row below: "FSS-VLV-006; FPWSS line to reactor cavity containment isolation check; Check; Maintain Close; Containment Isolation Safety Seat Leakage; AC; Containment Isolation Leak Test; 5" Editorial Correct erroneously omit
3.9-241	Table 3.9-14 (Sheet 131) 4 th Row, 1 st Column	Change: "VWS-TCV-2731A" to "VWS-TCV-2731" Editorial: Correct valve number description
3.9-241	Table 3.9-14 (Sheet 131) 5 th Row	Delete row in its entirety Editorial: Correct valve number description
3.9-241	Table 3.9-14 (Sheet 131) 6 th Row, 1 st Column	Change: "VWS-TCV-2736A" to "VWS-TCV-2736" Editorial: Correct valve number description
3.9-241	Table 3.9-14 (Sheet 131) 7 th Row	Delete row in its entirety Editorial: Correct valve number description
3.9-246	Table 3.9 (Sheet 136) 2 nd Row	Add in new 3 rd row below: "RMS-MOV-001; Containment Air Sampling Line Containment Isolation Inside of CV; Remote; Maintain Close Transfer Close; Active Containment Isolation Safety Seat Leakage Remote Position; A; Remote Position Indication, Exercise/2 Years Containment Isolation Leak Test Exercise Full Stroke/ Cold Shutdown Operability Test; 5 6" Editorial: Correct erroneously omit
3.9-246	Table 3.9 (Sheet 136) 3 rd Row	Add in new 4 th row below: "RMS-MOV-002; Containment Air Sampling Line Containment Isolation Outside of CV; Remote; Maintain Close Transfer Close; Active Containment Isolation Safety Seat Leakage Remote Position; A; Remote Position Indication, Exercise/2 Years Containment Isolation Leak Test Exercise Full Stroke/ Cold Shutdown Operability Test; 5 6" Editorial: Correct erroneously omit

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.9-247	Table 3.9 (Sheet 137) 1 st Row	Add in new 2 nd row below: "RMS-MOV-003; Containment Air Sampling Return Line Containment Isolation Outside of CV; Remote; Maintain Close Transfer Close; Active Containment Isolation Safety Seat Leakage Remote Position; A; Remote Position Indication, Exercise/2 Years Containment Isolation Leak Test Exercise Full Stroke/ Cold Shutdown Operability Test; 5 6" Editorial: Correct erroneously omit
3.9-247	Table 3.9 (Sheet 137) 2 nd Row	Add in new 3 rd row below: "RMS-VLV-005; Containment Air Sampling Return Line Containment Isolation Check Inside of CV; Check; Maintain Close Transfer Close; Active Containment Isolation Safety Seat Leakage; AC; Containment Isolation Leak Test Check Exercise/Refueling Outage; 3 5" Editorial: Correct erroneously omit
3.9-248	Table 3.9-14 (Sheet 138) 11 th Note 3 rd , 4 th , and 5 th Sentences	Change: "Therefore, these valves will be partially stroked on a quarterly basis and will be full stroke tested on a cold shutdown frequency basis. The full stroke testing will be a full "slow" closure operation. The large size and fast stroking nature of the valve makes it advantageous to limit the number of fast closure operations which the valve experiences. The timed slow closure verifies the valves operability status and that the valve is not mechanically bound." to "These valves will be exercised during cold shutdown." Editorial: Correct note description
3.9-248	Table 3.9-14 (Sheet 138) 12 th Note	Change: "...isolation check valves and main steam check valves can not..." to "...isolation check valves, main steam check valves, and turbine driven emergency feedwater pump steam supply line drain line check valves can not..." Editorial: Clarify scope of subject
3.9-248	Table 3.9-14 (Sheet 138) 12 th Note	Add below: "13. Exercising these valves during power operation would cause a loss of necessary safety function for power operation that needs big efforts to recover it. These valves will be exercised during hot shutdown before cooling down for refueling outage." Editorial: Add description of notes
3.10-1	Section 3.10 1 st Paragraph, 2 nd Sentence	Change: "This includes the following:" to "The equipment subject to this demonstration includes the following:" Editorial: Clarify scope of statement.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.10-1	Section 3.10 2 nd Paragraph, 1 st Sentence	Change: "The following equipment is also covered:" to "The following equipment is also subject to the above demonstration" Editorial: Clarify scope of statement
3.10-2	Section 3.10 5 th Paragraph	Add new paragraph below: "The COL Applicant is to establish an equipment seismic qualification program which addresses all requisite aspects of seismic and dynamic qualification of mechanical and electrical equipment." Editorial: Provided consistent COL Applicant action and wording
3.10-2	Subsection 3.10.1 2 nd paragraph, 1 st sentence	Change: "This criterion is discussed in this subsection and Subsection 3.10.2" to "The qualification criteria are discussed in this subsection and in Subsection 3.10.2" Editorial: Clarify scope of statement.
3.10-2	Subsection 3.10.1 3 rd Paragraph, 3 rd Sentence	Change: "As defined in Subsection 3.7.1, which complies with... the OBE is ..." to "As defined in Subsection 3.7.1, in accordance with... the OBE for the standard plant is..." Editorial: Clarify scope of statement.
3.10-2	Subsection 3.10.1 3 rd Paragraph, 4 th Sentence	Change: "... standard, the COL Applicant can similarly eliminate the OBE or optionally set the OBE higher than 1/3 SSE provided they design non-standard plant SSCs for the OBE." to "...standard plant, the COL Applicant can similarly eliminate the OBE, or optionally set the OBE higher than 1/3 SSE, provided the design of the non-standard plant's SSCs are analyzed for the chosen OBE." Editorial: Clarify scope of statement and correct grammatical errors.
3.10-3	Subsection 3.10.1.1 4 th Paragraph, 3 rd Sentence	Change: "This method of qualification of safety-related seismic category I equipment using experience data is not used in the DCD. This is an optional method that can be used after the DCD by the COL Applicant. If used by the COL Applicant, it is to be documented in the equipment qualification file (and EQSDS) and readily available for review. This methodology is also discussed in Subsection 3.10.4.2." to "Experience-based qualification is not used for any equipment." Editorial: Remove optional qualification method.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.10-4	Subsection 3.10.1.2 2 nd Paragraph, 1 st Sentence	Change: "...are defined in the appropriate equipment..." to "...are defined in the corresponding equipment..." Editorial: Clarify scope of statement.
3.10-4	Section 3.10.2 2 nd Paragraph, 1 st Sentence	Change: "... in combination with other relevant dynamic and static loads." to "in combination with other applicable dynamic and static loads." Editorial: Clarify scope of statement.
3.10-5	Section 3.10.2 4 th Paragraph, 2 nd & 3 rd Sentence	Change: "Therefore, there are some possibilities that site-specific in-structure response spectra generated for the COL application results in exceeding of the... are also considered as described above." to "Therefore, the COL Applicant is to investigate if site-specific in-structure response spectra generated for the COL application may exceed the standard US-APWR design's in-structure response spectra in the high-frequency range. Accordingly, the COL Applicant is to consider the functional performance of vibration-sensitive components, such as relays and other instrument and control devices whose output could be affected by high frequency excitation." Editorial: Clarify scope of statements.
3.10-5	Section 3.10.2 5 th Paragraph, 2 nd Sentence	Change: "...due to design deficiencies are..." to "due to high frequency effects are..." Editorial: Clarify scope of statement.
3.10-6	Section 3.10.2 11 th Paragraph, 4 th Bullet	Delete bullet in its entirety: "Qualify the equipment through the use of experience data (optional)". Editorial: Remove optional qualification method.
3.10-8	Section 3.10.2 24 th Paragraph, 1 st Sentence	Change: "...mode; the resulting floor motion...or, the input has sufficient intensity..." to "...mode; when the resulting floor motion...or, when the input has sufficient intensity..." Editorial: Correct grammatical error.

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.10-8	Section 3.10.2 26 th Paragraph	Change in its entirety to: "Components that have been previously tested to IEEE Std 344-1971 prior to submittal of the DCD are reevaluated to justify the appropriateness of the input motion and requalify the equipment, if necessary. The COL Applicant is to requalify the component using biaxial test input motion unless the applicant provides justification for using a single-axis test input motion." Editorial: Clarify scope of statement and identify COL action
3.10-9	Section 3.10.2 30 th Paragraph, 6 th Sentence	Change: "The determination of which method to use is that which most accurately represent the equipment's..." to "The method to use is that which most accurately represents the equipment's..." Editorial: Clarify scope of statement.
3.10-9	Section 3.10.2 31 st Paragraph, 1 st Sentence	Change: "...to determine when the equipment is rigid or flexible." to "...to determine whether the equipment is rigid or flexible." Editorial: Correct grammatical error
3.10-10	Section 3.10.2 36 th Paragraph, 2 nd Sentence	Change: "...by isolation or barrier..." to "...by isolation or the use of barriers..." Editorial: Clarify scope of statement
3.10-10	Subsection 3.10.2.1.1 1 st Paragraph, 1 st Sentence	Change: "manufacturing and are in accordance with the manufacture's..." to "manufacturing. The sample components are in compliance with the manufacturer's..." Editorial: Clarify scope of subject
3.10-13	Subsection 3.10.2.2 <u>Valves</u> 3 rd Paragraph, 2 nd Sentence	Change: "The maximum stress produced in the valve body by analysis, which..." to "The maximum calculated stress produced in the valve body, which..." Editorial: Clarify scope of subject.
3.10-13	Subsection 3.10.2.2 <u>Valves</u> 4 th Paragraph, 5 th Sentence	Change: "... (Table 3.9-14) and for those valves that are not included; the..." to "... (Table 3.9-14). For those valves that are not included, the..." Editorial: Correct grammatical errors
3.10-13	Subsection 3.10.2.2 <u>Valves</u> 6 th Paragraph, 3 rd Sentence	Change: "...points and must be sufficiently rigid..." to "...points and is sufficiently rigid..." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.10-14	Subsection 3.10.2.2 <u>Valves</u> 8 th Paragraph, 2 nd Sentence	Change: "The functional specifications are addressed in Section 3.9." to "The functional specifications for valves are addressed in Section 3.9." Editorial: Clarify scope of subject
3.10-14	Subsection 3.10.2.2 <u>Valves</u> 9 th Paragraph, 1 st Sentence	Change: "...which are the maximum design line..." to "...which experience the maximum design line..." Editorial: Clarify scope of subject
3.10-15	Subsection 3.10.2.2 <u>Pumps</u> 1 st Paragraph, 1 st Sentence	Change: "...met and will operate..." to "...met and the pumps will operate..." Editorial: Clarify scope of subject
3.10-15	Subsection 3.10.2.2 <u>Pumps</u> 2 nd Paragraph, 3 rd Sentence	Change: "...demonstrate that it meets..." to "...demonstrate that the pump meets..." Editorial: Clarify scope of subject
3.10-15	Subsection 3.10.2.2 <u>Pumps</u> 2 nd Paragraph, 4 th Sentence	Change: "...assembly must be performed to ascertain..." to "...assembly must be determined to ascertain..." Editorial: Clarify scope of subject
3.10-15	Subsection 3.10.2.2 <u>Pumps</u> 3 rd Paragraph, 1 st Sentence	Change: "...maximum acceleration and its mounting..." to "...maximum acceleration at its mounting..." Editorial: Clarify scope of subject
3.10-15	Subsection 3.10.2.2 <u>Pumps</u> 5 th Paragraph, 1 st Sentence	Change: "...that the stresses in the shaft..." to "...that the stresses on the shaft..." Editorial: Clarify scope of subject
3.10-17	Section 3.10.3 3 rd Paragraph, 1 st Sentence	Change: "...the input motion takes into..." to "...the input motion must take into..." Editorial: Clarify scope of subject
3.10-17	Section 3.10.3 4 th Paragraph, 1 st Sentence	Change: "For mechanical equipment supports (including pumps and valves), the design and service load combinations ..." to "For mechanical equipment supports (including pumps, valves, valve operators and fans), the design and service load combinations ..." Editorial: Clarify related equipment supports

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.10-18	Subsection 3.10.4 1 st Paragraph, 8 th Bullet	Delete bullet in its entirety: “Qualification by an experience-based approach, identification of the type of experience and the source of experience database, if applicable.” Editorial: Remove optional qualification method.
3.10-18	Subsection 3.10.4.1 1 st Paragraph	Change in its entirety to: “The implementation of the equipment seismic qualification program is described in a Technical Report titled, “US-APWR Equipment Environmental Qualification Program,” issued as a separate report (Reference 3.11-3). The COL Applicant is to document and implement an equipment qualification program for seismic category I equipment and provide milestones and completion dates.” Editorial: Clarify scope of statement and identify COL action
3.10-18	Subsection 3.10.4.2 1 st and 2 nd Paragraph	Change: “The method of using an experience-based approach for equipment qualification is an optional method that can be used after the submittal of the DCD by the COL Applicant. If qualification by an experience-based approach is utilized ... If the COL Applicant proposes qualification by experience, the method and procedures, along with the details of the experience database, are to be available in sufficient time for review and approval prior to procurement and installation.” to “Experience-based qualification is not used for any equipment.” Editorial: Remove optional qualification method.
3.10-18	Section 3.10.5 COL 3.10(1)	Change in its entirety to: “ <i>The COL Applicant is to document and implement an equipment qualification program for seismic category I equipment and provide milestones and completion dates.</i> ” Editorial: Align with Subsection 3.10.4.1 text
3.10-19	Section 3.10.5 COL 3.10(2)	Change in its entirety to: “ <i>Deleted</i> ” Editorial: COL activity is a repetitive subset of COL 3.7(3)

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.10-19	Section 3.10.5 COL 3.10(3)	Change in its entirety to: "The COL Applicant is to develop and maintain an equipment qualification file that contains a list of systems, equipment, and equipment support structures, as defined above, and summary data sheets referred to as an equipment qualification summary data sheet (EQSDS) of the seismic qualification for each piece of safety-related seismic category I equipment (i.e., each mechanical and electrical component of each system), which summarize the component's qualification." Editorial: Align with Subsection 3.10 text
3.10-19	Section 3.10.5 COL 3.10(4)	Change in its entirety to: " <i>Deleted</i> " Editorial: Remove optional qualification method.
3.10-19	Section 3.10.5 COL 3.10(6)	Change in its entirety to: " <i>Deleted</i> " Editorial: COL activity is a repetitive subset of COL 3.7(3)
3.10-19	Section 3.10.5 COL 3.10(7)	Change in its entirety to: " <i>Deleted</i> " Editorial: COL activity is a repetitive subset of COL 3.7(3)
3.10-19	Section 3.10.5 COL 3.10(7)	Add new COL item below: " <i>COL 3.10(8) For design of seismic category I and II SSCs that are not part of the standard plant, the COL Applicant can similarly eliminate the OBE, or optionally set the OBE higher than 1/3 SSE, provided the design of the non-standard plant's SSCs are analyzed for the chosen OBE.</i> " Editorial: Include COL activity from Subsection 3.10.1
3.10-19	Section 3.10.5 COL 3.10(8)	Add new COL item below: " <i>COL 3.10(9) The COL Applicant is to investigate if site-specific in-structure response spectra generated for the COL application may exceed the standard US-APWR design's in-structure response spectra in the high-frequency range. Accordingly, the COL Applicant is to consider the functional performance of vibration-sensitive components, such as relays and other instrument and control devices whose output could be affected by high frequency excitation.</i> " Editorial: Include COL activity from Subsection 3.10.2
3.10-19	Section 3.10.5 COL 3.10(8)	Add new COL item below: " <i>COL 3.10(10) The COL Applicant is to establish an equipment seismic qualification program which addresses all requisite aspects of seismic and dynamic qualification of mechanical and electrical equipment.</i> " Editorial: Added to align with Section 3.10 text

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.11-1	Section 3.11 <u>Introduction</u> 2 nd Paragraph, 2 nd Sentence	Add new 3 rd sentence: "The equipment addressed by the EQ Program is identified in Appendix 3D." Editorial: Clarify scope of statement
3.11-1	Section 3.11 <u>Introduction</u> 3 rd Paragraph	Delete 3 rd paragraph in its entirety Editorial: Remove superfluous information
3.11-1	Section 3.11 <u>Introduction</u> 5 th Paragraph, 1 st Sentence	Change: "...to each US-APWR licensed by the DCD process." to "... to each licensed US-APWR." Editorial: Clarify scope of statement
3.11-1	Section 3.11 <u>Introduction</u> 5 th Paragraph, Last Sentence	Add new sentence: "The COL Applicant is to provide a schedule showing the EQ Program proposed implementation milestones." Editorial: Clarify COL Applicant responsibility for COL 3.11(3) in Subsection 3.11.7

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.11-1 & 2	Section 3.11 <u>Introduction</u> 5 th Paragraph	<p>Add new 6th paragraph: “The COL Applicant is responsible for assembling and maintaining the environmental qualification document, which summarizes the qualification results for all equipment identified in Appendix 3D, for the life of the plant. The environmental qualification document is to address the following information:</p> <ul style="list-style-type: none"> • Identification of the equipment and applicable plant, system, and equipment selection basis, particularly with respect to normal environmental conditions, AOOs, accident, post-accident, and test environmental conditions. • Designated functional requirements, the definition of the applicable environmental parameters, and the documentation of the qualification process employed to demonstrate that the required environmental compliance is achieved. • Identification of the test environmental parameters and the methodology used to qualify the equipment located in harsh environments. • A summary of environmental conditions and qualified conditions for the equipment located in a harsh environment zone are presented in the system component evaluation work sheets or packages and are compiled in the environmental qualification document.” <p>Editorial: Provided consistency</p>
3.11-2	Section 3.11 <u>Introduction</u> 5 th Paragraph	<p>Add new 7th paragraph: The seismic qualification requirements applicable to this equipment are described in Section 3.10 and the environmental requirements are listed in Appendix 3D.”</p> <p>Editorial: Provided consistency</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.11-2	Section 3.11 <u>Introduction</u> 5 th Paragraph	Add new 8 th paragraph: "The COL Applicant is to describe periodic tests, calibrations, and inspections to be performed during the life of the plant to verify the identified equipment remains capable of fulfilling its intended function. The procedures and results of qualification by tests, analyses, or other methods for the safety-related equipment are documented and maintained as part of the unit's environmental qualification document." Editorial: Provide consistent COL Applicant action and wording
3.11-3	Section 3.11 <u>Purpose</u> 3 rd Paragraph, 5 th Sentence	Change: "The reason for this is that ..." to "The reason for this sequence is that ..." Editorial: Clarify scope of statement
3.11-3	Section 3.11 <u>Purpose</u> 3 rd Paragraph, 8 th Sentence	Change: "At this point, the actual required environmental parameters ..." to "At this point, the required environmental parameters ..." Editorial: Remove superfluous word
3.11-3	Section 3.11 <u>Purpose</u> 3 rd Paragraph, 10 th Sentence	Change: "In some cases, the equipment will be qualified by testing ..." to "In some cases, the equipment is qualified by testing ..." Editorial: Clarify statement as the process opposed to a future action
3.11-3	Section 3.11 <u>Purpose</u> 3 rd Paragraph, 12 th Sentence	Change: "...the plant owner (the COL Applicant)." to "...the plant owner." Editorial: Clarify scope of statement
3.11-3	Section 3.11 <u>Purpose</u> 3 rd Paragraph, 14 th Sentence	Change: "The plant licensee (the COL Applicant) is..." to "The plant owner is..." Editorial: Clarify scope of statement
3.11-4	Subsection 3.11.1.1 1 st Paragraph, Last Sentence	Add new sentence: "The COL Applicant is to identify the site-specific equipment to be addressed in the EQ Program, including locations and environmental conditions." Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.11-4	Subsection 3.11.1.1 2 nd Paragraph	Change: "...record file (Reference 3.11-7)." to "...record file in accordance with Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants (Reference 3.11-7)." Editorial: Clarify scope of subject
3.11-4	Subsection 3.11.1.2 1 st Paragraph, 3 rd Sentence	Change: "...year period (Reference 3.11-1) or identified as revised for site specific considerations, in the appropriate COL application." to "...year period or identified by analysis. Optionally, the COL Applicant may revise the parameters based on site-specific considerations." Editorial: Provided consistency and clarification
3.11-5	Subsection 3.11.1.2 4 th Paragraph, 1 st Sentence	Change: "Mild environments are similar to a factory floor or office environment." to "Mild environments are similar to those in a factory or office." Editorial: Clarify scope of statement
3.11-6	Subsection 3.11.1.4 1 st Paragraph, 3 rd Sentence	Change: "... documented in the appropriate equipment specifications, ..." to "... documented in the corresponding equipment specifications, ..." Editorial: Clarify scope of statement
3.11-6	Subsection 3.11.2 1 st Paragraph, Last Sentence	Change: "The needs for additional plant specific tests are developed in conjunction with the COL Application and are identified therein." to "The need for additional plant specific tests is developed as identified and included during the application process." Editorial: Clarify scope of statement and provide consistency
3.11-6	Subsection 3.11.2 3 rd Paragraph, 4 th Sentence	Change: "Testing will be performed ..." to "Testing is performed ..." Editorial: Clarify statement as the process opposed to a future action
3.11-7	Subsection 3.11.2 3 rd Paragraph, 5 th Sentence	Change: "Other tests will be conducted ..." to "Other tests are conducted ..." Editorial: Clarify statement as the process opposed to a future action
3.11-7	Subsection 3.11.2.1 2 nd Paragraph, 4 th Sentence	Change: "... compliance of the equipment." to "... compliance of the equipment with environmental conditions." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.11-7	Subsection 3.11.2.1 2 nd Paragraph, 6 th Sentence	Change: "This ability of this equipment to operate over this period is verified by the periodic inspection and testing as described in the COL application." to "The ability of this equipment to operate over this period is verified by periodic inspection and testing." Editorial: Correct grammatical errors and provided consistency
3.11-7	Subsection 3.11.2.1 5 th Paragraph, 1 st Bullet	Change: "Consideration of a sequence of events which may affect ..." to "The sequence of events, which may affect ..."
3.11-8	Subsection 3.11.2.1 7 th Paragraph, 5 th Bullet	Change: "Regulatory Guide 1.97, Instrumentation of Light Water Cooled Nuclear Power Plants to Assess Plant Environs Conditions During and Following an Accident (Reference 3.11-14)." to "Regulatory Guide 1.97, Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants (Reference 3.11-14)." Editorial: Correct title of reference document.
3.11-9	Subsection 3.11.3 1 st Paragraph, 2 nd Sentence	Change: "...10 CFR 50, Appendix B, Section XI, Test Control ..." to "...10 CFR 50, Appendix B, Criterion XI, Test Control ..." Editorial: Correct terminology
3.11-9	Subsection 3.11.3 4 th Paragraph	Add new paragraph below: "The COL Applicant is to describe how the results of the qualification tests are to be recorded in an auditable file in accordance with requirements of 10 CFR 50.49 (j) (Reference 3.11-2). Such a record is maintained for the entire period during which the related equipment remains installed in the plant, stored for future use, or is held for permit verification." Editorial: Provided consistent COL Applicant action and wording
3.11-10	Subsection 3.11.4 1 st Paragraph	Add new paragraph below: "The COL Applicant is to qualify site-specific electrical and mechanical equipment (including instrumentation and control, and certain accident monitoring equipment) using an equivalent qualification process to that delineated for the US-APWR Standard Plant. This includes equipment that is subject to environmental control systems including heat tracing and air conditioning." Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.11-10	Subsection 3.11.5	Add new paragraph: "The COL Applicant is to identify chemical and radiation environmental requirements for site-specific qualification of electrical and mechanical equipment (including instrumentation and control, and certain accident monitoring equipment). This equipment is to be qualified using an equivalent qualification process to that delineated for the US-APWR Standard Plant." Editorial: Provided consistent COL Applicant action and wording
3.11-10	Subsection 3.11.5.1 1 st Paragraph, 5 th Sentence	Change: "... including submergence, will be qualified with ..." to "... including submergence, are qualified with ..." Editorial: Clarify statement as the process opposed to a future action
3.11-11	Subsection 3.11.5.2 4 th Paragraph, 2 nd Sentence	Change: "... this equipment will be qualified by analysis ..." to "... this equipment is qualified by analysis ..." Editorial: Clarify statement as the process opposed to a future action
3.11-11	Subsection 3.11.6 1 st Paragraph	Add new paragraph below: "The COL Applicant is to provide the site-specific mechanical equipment requirements. This equipment is to be qualified using an equivalent qualification process to that delineated for the US-APWR Standard Plant." Editorial: Provided consistent COL Applicant action and wording
3.11-11	COL 3.11(1)	Change: " <i>The plant licensee (COL Applicant) describes how the environmental qualification document summarizing...maintained by the COL Applicant</i> " to " <i>The COL Applicant is responsible for assembling and maintaining the environmental qualification document, which summarizes the qualification results for all equipment identified in Appendix 3D, for the life of the plant.</i> " Editorial: Provided consistent COL Applicant action and wording
3.11-11	COL 3.11(2)	Change: " <i>The plant licensee (COL Applicant) describes...permit verification</i> " to " <i>The COL Applicant is to describe how the results of the qualification tests are to be recorded in an auditable file in accordance with the requirements of 10CFR 50.49 (j)</i> " Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)</p>	<p align="center">Description of Change</p>
3.11-11	COL 3.11(3)	<p>Change: <i>“The (COL Applicant) is to prepare...”</i> to <i>“The COL Applicant is to provide...”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.11-11	COL 3.11(4)	<p>Change: <i>“The plant licensee (COL Applicant) is...life of the plant to verify that electrical and mechanical equipment remains...”</i> to <i>“The COL Applicant is... life of the plant, which verify the identified equipment remains...”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.11-11	COL 3.11(5)	<p>Add new item: <i>“COL 3.11(5) The COL Applicant is to identify the site-specific equipment to be addressed in the EQ Program, including locations and environmental conditions.”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.11-11	COL 3.11(6)	<p>Add new item: <i>“COL 3.11(6) The COL Applicant is to qualify site-specific electrical and mechanical equipment (including instrumentation and control, and certain accident monitoring equipment) using an equivalent qualification process to that delineated for the US-APWR Standard Plant.”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.11-11	COL 3.11(7)	<p>Add new item: <i>“COL 3.11(7) The COL Applicant is to identify chemical and radiation environmental requirements for site-specific qualification of electrical and mechanical equipment (including instrumentation and control, and certain accident monitoring equipment).”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>
3.11-12	COL 3.11(8)	<p>Add new item: <i>“COL 3.11(8) The COL Applicant is to provide the site-specific mechanical equipment requirements.”</i></p> <p>Editorial: Provided consistent COL Applicant action and wording</p>

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.11-12	COL 3.11(9)	Add new item: “COL 3.11(9) <i>Optionally, the COL Applicant may revise the parameters based on site-specific considerations.</i> ” Editorial: Provided consistent COL Applicant action and wording
3.11-12	Subsection 3.11.8 Reference 3.11-14, 1 st Sentence	Change: “ <u>Instrumentation of Light Water Cooled Nuclear Power Plants to Assess Plant Environs Conditions During and Following an Accident.</u> ” to “ <u>Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants.</u> ” Editorial: Correct title of reference document.
3.11-15	Figure 3.11-1	Change: “COL – Combined Operating License – Specific to each plant/site” to “COL – Combined License – Specific to each plant/site” Editorial: Correct definition of acronym
3.12-1	Subsection 3.12.1 1 st Paragraph, 1 st Sentence	Change: “This section covers the design of piping system and piping supports which comprises seismic...” to “This section covers the design of the US- APWR plant and site-specific piping systems and piping supports which comprise seismic...” Editorial: Clarify scope of statement
3.12-1	Section 3.12.1 3 rd Paragraph, 1 st Sentence	Change: “...is to receive design considerations for seismic category...” to “...is evaluated for seismic category...” Editorial: Clarify scope of statement
3.12-1	Subsection 3.2.2.2 1 st Paragraph, 2 nd Sentence	Change: “...Rev 33 (Reference...” to “...Rev 34 (Reference...” Editorial: Correct reference
3.12-2	Subsection 3.12.3.2.2 2 nd Paragraph, 1 st Sentence	Change: “The method is as follows:” to “The method is applied as follows:” Editorial: Clarify scope of statement
3.12-3	Subsection 3.12.3.2.3 3 rd Paragraph, 1 st Sentence	Change: “...Subsections 3.12.3.2, and 3.12.3.2, respectively.” to “...Subsections 3.12.3.2.4, and 3.12.3.2.5, respectively.” Editorial: Correct typographical error
3.12-5	Subsection 3.12.3.3 2 nd Paragraph, 1 st Sentence	Change: “The supports are divided into support groups and a support group...” to “The supports are divided into support groups. Each support group...” Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.12-5	Subsection 3.12.3.3 2 nd Paragraph, 5 th Sentence	Change: "...in Subsection 3.12.3.2." to "...in Subsection 3.12.3.2.4 and 3.12.3.2.5, respectively." Editorial: Correct Subsection number
3.12-6	Subsection 3.12.3.7 1 st Paragraph, 1 st Sentence	Change: "...piping is isolation from..." to "... piping is its isolation from..." Editorial: Clarify scope of statement
3.12-6	Subsection 3.12.4.1 1 st Paragraph, 1 st Sentence	Change: "Pipe stress analyses and pipe support design are performed by the COL Applicant and, during that process, if they chose to use programs that are not listed below, the proper program validations, including..." to "For pipe stress analyses and pipe support design, if a program is used that is not listed below, then program validations, including..." Editorial: Clarify scope of statement
3.12-9	Subsection 3.12.5.1 2 nd Paragraph, 1 st Sentence	Change: "...which can be used..." to "...which may be used..." Editorial: Provided consistency of COL Applicant action and wording
3.12-10	Subsection 3.12.5.3.3 2 nd Paragraph, 1 st Sentence	Change: "...may be excluded for analysis..." to "...may be excluded from analysis..." Editorial: Clarify scope of statement
3.12-10	Subsection 3.12.5.3.4 1 st Paragraph, 1 st Sentence	Change: "As required by GDC-2, for US-APWR piping design, the main earthquake load used is..." to "As required by GDC-2, the main earthquake load used in the US-APWR design is..." Editorial: Clarify scope of statement
3.12-10	Subsection 3.12.5.3.5 2 nd Paragraph, 1 st Sentence	Change: "...pump or turbine and it is analyzed using dynamic analysis methods." to "...pump or turbine. Fluid hammer is analyzed using dynamic analysis methods." Editorial: Clarify scope of statement
3.12-12	Subsection 3.12.5.6 2 nd Paragraph, 2 nd Sentence	Change: "Piping systems that are sensitive to high frequency modes is screened by the COL Applicant for further evaluation." to "The COL Applicant is to screen piping systems that are sensitive to high frequency modes for further evaluation." Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.12-13	Subsection 3.12.5.10 2 nd Paragraph, 2 nd Sentence	Change: "...Subsection 5.4.2.1." to "...Subsection 5.4.2.1.2.12." Editorial: Correct location description
3.12-16	Section 3.12.6.1 7 th Paragraph	Added new 8 th Paragraph: "Pipe Support catalog items, which are fabricated/manufactured to later code editions than identified in the above paragraphs, may be used on a site-specific basis. This use of the later codes shall be reconciled to the code of record identified in the above paragraphs." Editorial: Add option for use of catalog type pipe supports.
3.12-18	Subsection 3.12.6.3.7 1 st Paragraph, 2 nd Sentence	Change: "...earthquake inertia load (SSEI) and safe-shutdown earthquake anchor load (SSEA) in Table 3.12-4." to "...earthquake inertia loads (SSEI) and safe-shutdown earthquake anchor loads (SSEA) in Table 3.12-4." Editorial: Correct grammatical error
3.12-21	Subsection 3.12.6.11 1 st Paragraph, 1 st Sentence	Change: "These small gaps allow the rotation of the pipe and also any radial thermal expansion of the pipe." to "These small gaps allow the rotation of the pipe and also allow for radial thermal expansion of the pipe." Editorial: Clarify scope of statement
3.12-21	Subsection 3.12.6.12 1 st Paragraph, 1 st Sentence	Change: "The acceptance criteria are from ASME..." to "The acceptance criteria for instrumentation line supports are from ASME..." Editorial: Clarify scope of statement
3.12-21	Subsection 3.12.6.12 2 nd Paragraph, 1 st Sentence	Change: "The applicable loading combinations are those..." to "The applicable loading combinations for these supports are those..." Editorial: Clarify scope of statement
3.12-21	Subsection 3.12.6.13 1 st Paragraph, 3 rd Sentence	Change: "The variability check of variable support spring hangers is per applicable Codes." to "The variability check of variable support spring hangers is performed per applicable Codes." Editorial: Clarify scope of statement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.12-21	Subsection 3.12.7 COL 3.12 (1)	Change: “ <i>If catalog items for the pipe support design were as-built/manufactured per the rules of ASME Code, Section III, Subsection NF published at a later date than that identified in Subsection 3.12.6.1 are used, the COL Applicant is to reconcile the use of the later edition.</i> ” to “ <i>Deleted</i> ” Editorial: Added information in DCD Subsection 3.12.6.1
3.12-21	Subsection 3.12.7 COL 3.12 (2)	Change: “... <i>which is used</i> ...” to “... <i>which can be used</i> ...” Editorial: Provided consistency
3.12-21	Subsection 3.12.7 COL 3.12 (3)	Change: “...ASME Code, Sec III, class 2 or 3 piping...” to “...ASME Code, Section III, (Reference 3.12-2), Class 2 or 3 piping...” Editorial: Provided consistency
3.12-21	Subsection 3.12.7 COL 3.12 (4)	Change: “The COL Applicant, if necessary, is...” to “The COL Applicant is...” Editorial: Remove superfluous words
3.12-22	Subsection 3.12.8 Reference 3.12-6	Change: “...Rev. 33,...” to “...Rev. 34,...” Editorial: Correct reference
3.12-26	Table 3.12-2 6 th Row, 4 th Column	Change: “ $P_R, TH_{DISCON}, L_{DFN}, L_{DFU}, SSEI$ ” to “ $P_R, TH_{DISCON}, L_{DFN}, L_{DFU}, SSEI, SSEA$ ” Editorial: Inadvertent omission of applicable load.
3.12-28	Table 3.12-3 3 rd Row, 5 th Column	Change: “ $1.8 S_h$ ” to “ $\text{Min}(1.8 S_h, 1.5 S_y)$ ” Editorial: Inadvertent omission of applicable stress limit.
3.12-28	Table 3.12-3 8 th Row, 5 th Column	Change: “ $\text{Min}(3 S_h, 1.8 S_y)$ ” to “ $\text{Min}(3 S_h, 2 S_y)$ ” Editorial: Correct typographical error.
3.13-1	Subsection 3.13.1.1 1 st Paragraph, 1 st Sentence	Change: “This Section provides guidance regarding the selection of suitable threaded fastener materials ...” to “This section addresses US-APWR standard plant and site-specific plant selection of threaded fastener materials ...” Editorial: Clarify scope of statement
3.13-1	Subsection 3.13.1.1 1 st Paragraph, 3 rd Sentence	Change: “The materials used for all threaded fasteners must be suitable for, ...” to “The materials used for all threaded fasteners are suitable for, ...” Editorial: Clarify as an affirmative statement opposed to a statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.13-1	Subsection 3.13.1.1 1 st Paragraph, 6 th Sentence	Change: "The use of suitable washers for bolting ... is optional but should be used for all three Code Classes." to "The use of washers for bolting ...is optional, but is used for all three Code Classes." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-3	Subsection 3.13.1.2.1 1 st Paragraph, 3 rd Sentence	Change: "The certificate holder shall provide the material organization ..." to "The certificate holder provides the material organization ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-4	Subsection 3.13.1.2.3 1 st Paragraph, 1 st Sentence	Change: "HSLA RV stud bolting should be fabricated through closely controlled quenched and tempered procedures on grades of steel such as ASME SA 540 B24." to "HSLA RV stud bolting is fabricated on grades of steel such as ASME SA 540 B24, using closely controlled procedures on quenching and tempering." Editorial: Clarify as an affirmative statement opposed to a statement of requirement and correct grammatical errors
3.13-4	Subsection 3.13.1.2.3 3 rd Paragraph, 1 st Sentence	Change: "RV closure studs and nuts must have a minimum ..." to "RV closure studs and nuts have a minimum ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-7	Subsection 3.13.1.2.5 2 nd Paragraph, 12 th Sentence	Change: "...provide information on the final..." to "...provide information on procedures for the final..." Editorial: Provided consistent COL Applicant action and wording
3.13-8	Subsection 3.13.1.3 3 rd Paragraph, 2 nd Bullet, 1 st Item, 3 rd Sentence	Change: "... the requirements of NB-2330 shall be reported in ..." to "... the requirements of NB-2330 are reported in ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-8	Subsection 3.13.1.3 3 rd Paragraph, 2 nd Bullet, 2 nd Item, 3 rd Sentence	Change: "... the requirements of NB-2330 and NC-2330 shall be reported in ..." to "... the requirements of NB-2330 and NC-2330 are reported in ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.13-8	Subsection 3.13.1.3 3 rd Paragraph, 2 nd Bullet, 2 nd Item, 5 th Sentence	Change: "The same C _v tests and specimens cited above for NB-2321.1 and NC-2321.1 shall be used, and the C _v test results meeting the requirements of ND-2330 shall be reported in the certified material test report." To "The same C _v tests and specimens cited above for NB-2321.1 and NC-2321.1 are used, and the C _v test results meeting the requirements of ND-2330 are reported in the certified material test report." Editorial: Clarify as affirmative statements opposed to statements of requirement
3.13-8	Subsection 3.13.1.3 3 rd Paragraph, 4 ^h Bullet, 3 rd Sentence	Change: "... and all three specimens shall meet the requirements ..." to "... and all three specimens are to meet the requirements ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-8	Subsection 3.13.1.3 3 rd Paragraph, 5 ^h Bullet, 1 st Sentence	Change: "... and ND-2345 state that one test shall be made for each lot of material, ..." to "... and ND-2345 state that one test is made for each lot of material, ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-9	Subsection 3.13.1.3 3 rd Paragraph, 7 th Bullet, 1 st Sentence	Change: "... and C _v impact test machines used in impact testing shall be performed at the following frequency:" to "...and C _v impact test machines used in impact testing are performed at the following frequency:" Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-9	Subsection 3.13.1.3 3 rd Paragraph, 7 th Bullet, 1 st Item, 1 st Sentence	Change: "... test temperatures of specimens shall be calibrated and the results recorded" to "...test temperatures of specimens are calibrated and the results recorded ..." Editorial: Clarify as affirmative statements opposed to statements of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.13-9	Subsection 3.13.1.3 3 rd Paragraph, 7 th Bullet, 2 nd Item	Change: “C _v impact test machines shall be calibrated and the results recorded in accordance with NCA-3858.2 requirements. Such calibrations shall be conducted using the methods and frequency ...” to “C _v impact test machines are calibrated and the results recorded in accordance with NCA-3858.2 requirements. Such calibrations are conducted using the methods and frequency ...” Editorial: Clarify as affirmative statements opposed to statements of requirement
3.13-9	Subsection 3.13.1.3 4 th Paragraph, 1 st Bullet, 3 rd Sentence	Change: “Also, nominal sizes above 2 inches but not over 4 inches shall be examined by the ultrasonic examination method (UT) in accordance with NB-2585, and nominal sizes greater than 4 inches shall be examined by UT in accordance with NB-2586.” To “Also, nominal sizes above 2 inches but not over 4 inches are examined by the ultrasonic examination method (UT) in accordance with NB-2585, and nominal sizes greater than 4 inches are examined by UT in accordance with NB-2586.” Editorial: Clarify as affirmative statements opposed to statements of requirement
3.13-9	Subsection 3.13.1.3 4 th Paragraph, 1 st Bullet, 6 th Sentence	Change: “NB-2583: MT of ferritic steel bolting material shall be performed in accordance with ASTM A275.” to “NB-2583: MT of ferritic steel bolting material are performed in accordance with ASTM A275.” Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-10	Subsection 3.13.1.3 4 th Paragraph, 2 nd Bullet, 3 rd Sentence	Change: “(Surface examinations are to be performed in accordance with ASME Code Section III (Reference 3.13-1), NB-2583.)” to “Surface examinations are to be performed in accordance with ASME Code Section III (Reference 3.13-1), NB-2583.” Editorial: Correct statement as non-parenthetical use
3.13-10	Subsection 3.13.1.3 4 th Paragraph, 2 nd Bullet, 8 th Sentence	Change: “Acceptance examination of bolting shall be performed after the final heat treatment required by the basic material specification.” to “Acceptance examination of bolting are performed after the final heat treatment required by the basic material specification.” Editorial: Clarify as an affirmative statement opposed to a statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3.13-10	Subsection 3.13.1.3 4 th Paragraph, 3 rd Bullet, 2 nd Sentence	Change: "... such visual examination shall be made on the areas of ..." to "... such visual examinations are made on the areas of ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-10	Subsection 3.13.1.5 1 st Paragraph, 1 st Sentence	Change: "The COL Applicant shall retain quality records ..." to "The COL Applicant is to retain quality records ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-10	Subsection 3.13.1.5 1 st Paragraph, 2 nd Sentence	Change: "... applicable certified material test reports shall be retained in accordance with ..." to "... applicable certified material test reports are retained in accordance with ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-10	Subsection 3.13.1.5 1 st Paragraph, 1 st Bullet, 1 st Sentence	Change: "... NCA-3830 (Responsibilities of Material Organizations) shall provide a certified material test report ..." to "...NCA-3830 (Responsibilities of Material Organizations) provides a certified material test report ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-10	Subsection 3.13.1.5 1 st Paragraph, 1 st Bullet, 2 nd Sentence	Change: "... the material organization shall transmit all certifications ..." to "...the material organization transmits all certifications ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-10 & 3.13-11	Subsection 3.13.1.5 1 st Paragraph, 1 st Bullet, 3 rd Sentence	Change: "The Certificate Holder shall complete all activities not completed by the material organization and provide a certified material test report ..." to "The Certificate Holder completes all activities not completed by the material organization and provides a certified material test report ..." Editorial: Clarify as affirmative statements opposed to statements of requirement
3.13-11	Subsection 3.13.1.5 1 st Paragraph, 2 nd Bullet, 1 st Sentence	Change: "The certified material test report shall include the actual results ..." to "The certified material test report includes the actual results ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.13-11	Subsection 3.13.1.5 1 st Paragraph, 2 nd Bullet, 4 th Sentence	Change: “Material identification shall be described ...” to “Material identification is described ...” Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-11	Subsection 3.13.1.5 1 st Paragraph, 3 rd Bullet, 1 st Sentence	Change: “... its quality system certification number and expiration date shall be shown on the ...” to “... its quality system certification number and expiration date are shown on the ...” Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-11	Subsection 3.13.2 1 st Paragraph, 1 st Sentence	Change: “The preservice inspection and ISI of threaded fasteners shall comply with the requirements ...” to “The preservice inspection and ISI of threaded fasteners comply with the requirements ...” Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-11	Subsection 3.13.2 2 nd Paragraph, 2 nd Sentence	Change: “... if leakage occurs at the bolted joint, the bolting shall be removed, ...” to “... if leakage occurs at the bolted joint, the bolting is removed, ...” Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-12	Subsection 3.13.2 4 th Paragraph, 4 th Sentence	Change: “... 100% bolts and studs at each bolted connection of components shall be inspected for each inspection period.” to “... 100% bolts and studs at each bolted connection of components are inspected for each inspection period.” Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-12	Subsection 3.13.2 4 th Paragraph, 5 th Sentence	Change: “The areas chosen for the initial examination shall be reexamined in the same sequence ...” to “The areas chosen for the initial examination are reexamined in the same sequence ...” Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-12	Subsection 3.13.2 5 th Paragraph, 1 st Sentence	Change: “...Insulation.” to “...Insulation for application of the ISI program for pressure testing of mechanical joints utilizing threaded fasteners.” Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3.13-12	Subsection 3.13.2 5 th Paragraph, 3 rd Sentence	Change: "... in borated water systems, insulation shall be removed from pressure retaining bolts ..." to "... in borated water systems, insulation is removed from pressure retaining bolts ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-12	Subsection 3.13.2 5 th Paragraph, 4 th Sentence	Change: "... one of the bolts closest to the leakage shall be removed, ..." to "... one of the bolts closest to the leakage is removed, ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-12	Subsection 3.13.2 5 th Paragraph, 5 th Sentence	Change: "... all remaining bolting in the connection shall be removed, ..." to "... all remaining bolting in the connection is removed ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-12	Subsection 3.13.2 5 th Paragraph, 6 th Sentence	Change: "... the leakage source and areas of general corrosion shall be located." to "... the leakage source and areas of general corrosion are located." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-12	Subsection 3.13.2 5 th Paragraph, 7 th Sentence	Change: "... general corrosion resulting in wall thinning by more than 10% shall be evaluated to determine ..." to "... general corrosion resulting in wall thinning by more than 10% are evaluated to determine ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-12	Subsection 3.13.2 5 th Paragraph, 8 th Sentence	Change: "Any source of leakage or evidence of structural degradation shall be recorded ..." to "Any source of leakage or evidence of structural degradation is recorded ..." Editorial: Clarify as an affirmative statement opposed to a statement of requirement
3.13-13	Subsection 3.13.3 COL 3.13(2)	Change: "...information on the final..." to "...information on procedures for the final..." Editorial: Provided consistent COL Applicant action and wording

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3A-iii	Acronyms and Abbreviations AWS American Welding Society	Add new acronyms below: "FIRS foundation input response spectra GMRS ground motion response spectra" Editorial: Added acronyms
3A-1	Subsection 3A.1.1 1 st Paragraph, 4 th Sentence	Add new sentence behind: "Site-specific seismic category I structures are analyzed and designed using as a minimum the site-specific SSE developed from the site-specific ground motion response spectra (GMRS) and foundation input response spectra (FIRS)." Editorial: Clarify scope of statements
3A-1	Appendix 3A Section 3A.1 2 nd Paragraph, 1 st Sentence	Delete sentence: "Ductwork construction methods are limited to welded metal (no lock seams)." Technical: Unintentional limitation on duct construction method (Refer to Tables 3.7.3-1(a) and 3.7.3-1(b) for damping values of allowable duct construction)
3A-2	Subsection 3A.1.2 1 st Paragraph, 3 rd Sentence	Change: "... analyzed and designed by the COL Applicant using the same methods ..." to "... analyzed and designed using the same methods ..." Editorial: Clarify scope of statement
3B-22	Appendix 3B Table 3B-2 13 th Row, 6 th Column	Change: "6.525" to "6.625" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 3 rd Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 3 rd Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 4 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 4 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

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3D-5	Appendix 3D Table 3D-2 (Sheet 1) 5 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 5 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 6 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 6 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 7 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 7 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 8 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 8 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 9 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 9 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 10 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 10 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 11 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 11 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 12 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 12 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 13 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 13 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 14 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 14 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 15 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 15 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 16 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 16 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 17 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 17 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 18 th Row, 6 th Column	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-5	Appendix 3D Table 3D-2 (Sheet 1) 18 th Row, 10 th Column	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-6	Appendix 3D Table 3D-2 (Sheet 2) 24 th Row (Item Num 44)	In 2 nd Column, Change: "SIS-PT-911" to "(Deleted)" Delete in its entirety Columns 3 through 9 Technical: Reflect design enhancement
3D-6	Appendix 3D Table 3D-2 (Sheet 2) 26 th Row (Item Num 46)	In 2 nd Column, Change: "SIS-PT-921" to "(Deleted)" Delete in its entirety Columns 3 through 9 Technical: Reflect design enhancement
3D-6	Appendix 3D Table 3D-2 (Sheet 2) 28 th Row (Item Num 48)	In 2 nd Column, Change: "SIS-PT-931" to "(Deleted)" Delete in its entirety Columns 3 through 9 Technical: Reflect design enhancement
3D-7	Appendix 3D Table 3D-2 (Sheet 2) 2 nd Row (Item Num 50)	In 2 nd Column, Change: "SIS-PT-941" to "(Deleted)" Delete in its entirety Columns 3 through 9 Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-9	Appendix 3D Table 3D-2 (Sheet 5) 19 th Row (Item Num 110)	Add: "Other" Technical: Reflect design enhancement
3D-9	Appendix 3D Table 3D-2 (Sheet 5) 20 th Row (Item Num 111)	Add: "Other" Technical: Reflect design enhancement
3D-9	Appendix 3D Table 3D-2 (Sheet 5) 21 st Row (Item Num 112)	Delete: "Other" Technical: Reflect design enhancement
3D-9	Appendix 3D Table 3D-2 (Sheet 5) 23 rd Row (Item Num 114)	Add: "Other" Technical: Reflect design enhancement
3D-9	Appendix 3D Table 3D-2 (Sheet 5) 24 th Row (Item Num 115)	Add: "Other" Technical: Reflect design enhancement
3D-10	Appendix 3D Table 3D-2 (Sheet 6) 2 nd Row (Item Num 117)	Delete: "Other" Technical: Reflect design enhancement
3D-10	Appendix 3D Table 3D-2 (Sheet 6) 3 rd Row (Item Num 118)	Add: "Other" Technical: Reflect design enhancement
3D-10	Appendix 3D Table 3D-2 (Sheet 6) 4 th Row (Item Num 119)	Add: "Other" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 14 th Row (Item Num 1)	Change: "5min" to "5min*" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 14 th Row (Item Num 1)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 15 th Row (Item Num 2)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 15 th Row (Item Num 2)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 16 th Row (Item Num 3)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 16 th Row (Item Num 3)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 17 th Row (Item Num 4)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 17 th Row (Item Num 4)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 18 th Row (Item Num 5)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 18 th Row (Item Num 5)	Add: "Not Required post accident" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 19 th Row (Item Num 6)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-14	Appendix 3D Table 3D-2 (Sheet 10) 19 th Row (Item Num 6)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 2 nd Row (Item Num7)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 2 nd Row (Item Num7)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 3 rd Row (Item Num8)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 3 rd Row (Item Num8)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 5 th Row (Item Num1)	Change: "36hr" to "36hr*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 5 th Row (Item Num1)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 6 th Row (Item Num2)	Change: "36hr" to "36hr*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 6 th Row (Item Num2)	Add: "Not Required post accident" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 7 th Row (Item Num3)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 7 th Row (Item Num3)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 8 th Row (Item Num4)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 8 th Row (Item Num4)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 9 th Row (Item Num5)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 9 th Row (Item Num5)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 10 th Row (Item Num6)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 10 th Row (Item Num6)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 11 th Row (Item Num7)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 11 th Row (Item Num7)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 12 th Row (Item Num8)	Change: "5min" to "5min*" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 12 th Row (Item Num8)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 13 th Row (Item Num9)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 13 th Row (Item Num9)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 14 th Row (Item Num10)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 14 th Row (Item Num10)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 15 th Row (Item Num11)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 15 th Row (Item Num11)	Add: "Not Required post accident" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 16 th Row (Item Num 12)	Change: "5min" to "5min*" Technical: Reflect design enhancement
3D-15	Appendix 3D Table 3D-2 (Sheet 11) 16 th Row (Item Num 12)	Add: "Not Required post accident" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-22	Appendix 3D Table 3D-2 (Sheet 18) 11 th Row, 4 th Column (Item Num 5)	Change: "C/V" to "PCCV" Editorial: Correct building acronym
3D-22	Appendix 3D Table 3D-2 (Sheet 18) 11 th Row, 5 th Column (Item Num 6)	Change: "C/V, R/B, A/B" to "PCCV, R/B, PS/B" Editorial: Correct building acronym and equipment location
3D-23	Appendix 3D Table 3D-2 (Sheet 19) 13 th Row, 3 rd Column	Change: "Safety Logic System Cabinet" to "D-Safety Logic System Cabinet" Editorial: Correct typographical error.
3D-25	Appendix 3D Table 3D-2 (Sheet 21) 14 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location.
3D-25	Appendix 3D Table 3D-2 (Sheet 21) 15 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location.
3D-25	Appendix 3D Table 3D-2 (Sheet 21) 15 th Row, 1 st Column	Change: "50" to "50A" Editorial: Differentiate between related new equipment
3D-25	Appendix 3D Table 3D-2 (Sheet 21) 15 th Row	Add in new 16 th row below: "50B; DCC-A1; A1-Class 1E DC Switchboard; PS/B; RT ESF; 2wks; Mild; E; I" Editorial: Added new component related to item number 50A
3D-26	Appendix 3D Table 3D-2 (Sheet 22) 10 th Row, 4 th Column	Change : "R/B" to "PS/B" Technical: Correct equipment location
3D-26	Appendix 3D Table 3D-2 (Sheet 22) 11 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-26	Appendix 3D Table 3D-2 (Sheet 22) 16 th Row, 2 nd Column	Change: "IBD-B1" to "IBD-B" Technical: Correct equipment identifier

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-27	Appendix 3D Table 3D-2 (Sheet 23) 2 nd Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-27	Appendix 3D Table 3D-2 (Sheet 23) 3 rd Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-27	Appendix 3D Table 3D-2 (Sheet 23) 11 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-27	Appendix 3D Table 3D-2 (Sheet 23) 12 th Row, 1 st Column	Change: "79" to "79A" Editorial: Differentiate between related new equipment
3D-27	Appendix 3D Table 3D-2 (Sheet 23) 12 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-27	Appendix 3D Table 3D-2 (Sheet 23) 12 th Row	Add in new 13 th row below: "79B; DCC-D1; D1-Class 1E DC Switchboard; PS/B; RT ESF; 2wks; Mild; E; I" Editorial: Added new component related to item number 79A
3D-28	Appendix 3D Table 3D-2 (Sheet 24) 11 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-28	Appendix 3D Table 3D-2 (Sheet 24) 12 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-28	Appendix 3D Table 3D-2 (Sheet 24) 13 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-28	Appendix 3D Table 3D-2 (Sheet 24) 14 th Row, 4 th Column	Change: "R/B" to "PS/B" Technical: Correct equipment location
3D-30	Appendix 3D Table 3D-2 (Sheet 26) 16 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-30	Appendix 3D Table 3D-2 (Sheet 26) 17 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-30	Appendix 3D Table 3D-2 (Sheet 26) 22 nd Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-30	Appendix 3D Table 3D-2 (Sheet 26) 25 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-31	Appendix 3D Table 3D-2 (Sheet 27) 2 nd Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-31	Appendix 3D Table 3D-2 (Sheet 27) 3 rd Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-31	Appendix 3D Table 3D-2 (Sheet 27) 24 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-31	Appendix 3D Table 3D-2 (Sheet 27) 25 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 10 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 11 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 13 th Row	Add in new 14 th row below: "35; CVS-AOV-001A; Air Operated Valve; PCCV; PB; 1 yr; Harsh; M; I" Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 14 th Row	Add in new 15 th row below: "36; CVS-AOV-001B; Air Operated Valve; PCCV; PB; 1yr; Harsh; M; I " Editorial: Correct erroneously omit

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 15 th Row	Add in new 16 th row below: “37; CVS-AOV-001C; Air Operated Valve; PCCV; PB; 1yr; Harsh; M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 16 th Row	Add in new 17 th row below: “38; CVS-HCV-102; Air Operated Valve; PCCV; PB; 1 yr; Harsh; M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 17 th Row	Add in new 18 th row below: “39; CVS-HCV-190; Air Operated Valve; PCCV; PB; 1 yr; Harsh;M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 18 th Row	Add in new 19 th row below: “40; CVS-AOV-224; Air Operated Valve; PCCV; PB; 1 yr; Harsh; M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 19 th Row	Add in new 20 th row below: “41; CVS-LCV-121F; Air Operated Valve; R/B; Other; 2wks; Mild; M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 20 th Row	Add in new 21 st row below: “42; CVS-LCV-121G; Air Operated Valve; R/B; Other; 2wks; Mild; M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 21 st Row	Add in new 22 nd row below: “43; CVS-AOV-196A; Air Operated Valve; PCCV; PB; 1 yr; Harsh; M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 22 nd Row	Add in new 23 rd row below: “44; CVS-AOV-196B; Air Operated Valve; PCCV; PB; 1 yr; Harsh; M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 23 rd Row	Add in new 24 th row below: “45; CVS-AOV-196C; Air Operated Valve; PCCV; PB; 1 yr; Harsh; M; I” Editorial: Correct erroneously omit
3D-32	Appendix 3D Table 3D-2 (Sheet 28) 24 th Row	Add in new 25 th row below: “46; CVS-AOV-196D; Air Operated Valve; PCCV; PB; 1 yr; Harsh; M; I” Editorial: Correct erroneously omit
3D-33	Appendix 3D Table 3D-2 (Sheet 29) 9 th Row, 6 th Column	Change: “2wks” to “1yr” Editorial: Correct operational duration description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-33	Appendix 3D Table 3D-2 (Sheet 29) 10 th Row, 6 th Column	Change: "2wks" to "1yr" Editorial: Correct operational duration description
3D-33	Appendix 3D Table 3D-2 (Sheet 29) 11 th Row, 6 th Column	Change: "2wks" to "1yr" Editorial: Correct operational duration description
3D-33	Appendix 3D Table 3D-2 (Sheet 29) 12 th Row, 6 th Column	Change: "2wks" to "1yr" Editorial: Correct operational duration description
3D-33	Appendix 3D Table 3D-2 (Sheet 29) 19 th Row, 6 th Column	Change: "2wks" to "1yr" Editorial: Correct operational duration description
3D-33	Appendix 3D Table 3D-2 (Sheet 29) 20 th Row, 6 th Column	Change: "2wks" to "1yr" Editorial: Correct operational duration description
3D-33	Appendix 3D Table 3D-2 (Sheet 29) 21 st Row, 6 th Column	Change: "2wks" to "1yr" Editorial: Correct operational duration description
3D-33	Appendix 3D Table 3D-2 (Sheet 29) 22 nd Row, 6 th Column	Change: "2wks" to "1yr" Editorial: Correct operational duration description
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 26 th Row, 2 nd Column	Change: "SIS-AOV-201A" to "SIS-AOV-201B" Editorial: Correct typographical error
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 27 th Row, 2 nd Column	Change: "SIS-AOV-201D" to "SIS-AOV-201C" Editorial: Correct typographical error
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 27 th Row, 5 th Column	Change: "-" to "PB" Editorial: Correct purpose description
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 27 th Row, 6 th Column	Change: "-" to "1yr" Editorial: Correct operational description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 27 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 27 th Row, 5 th Column	Change: "-" to "PB" Editorial: Correct purpose description
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 27 th Row, 6 th Column	Change: "-" to "1yr" Editorial: Correct operational description
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 28 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-34	Appendix 3D Table 3D-2 (Sheet 30) 29 th Row	Add in new 30 th row below: "56; SIS-AOV-114; Air Operated Valve; R/B; ESF; 5 min; Mild; M; I" Editorial: Correct erroneously omit
3D-35	Appendix 3D Table 3D-2 (Sheet 31) 19 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-35	Appendix 3D Table 3D-2 (Sheet 31) 20 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-35	Appendix 3D Table 3D-2 (Sheet 31) 22 nd Row, 2 nd Column	Change: "RHS-FCV-604" to "RHS-FCV-601" Editorial: Correct equipment tag description
3D-35	Appendix 3D Table 3D-2 (Sheet 31) 10 th Row, 2 nd Column	Change: "RHS-FCV-634" to "RCS-FCV-631" Editorial: Correct equipment tag description
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 5 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 6 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 7 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 8 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 9 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 10 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 11 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 12 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-38	Appendix 3D Table 3D-2 (Sheet 34) 13 th Row, 9 th Column	Change: "Non" to "I" Editorial: Correct seismic category description
3D-39	Appendix 3D Table 3D-2 (Sheet 35) 15 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-39	Appendix 3D Table 3D-2 (Sheet 35) 16 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-39	Appendix 3D Table 3D-2 (Sheet 35) 17 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description
3D-39	Appendix 3D Table 3D-2 (Sheet 35) 18 th Row, 5 th Column	Change: "PB" to "ESF" Editorial: Correct purpose description

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-43	Appendix 3D Table 3D-2 (Sheet 39) 4 th Row	Add in new 5 th row below: "39; NCS-MOV-316A; Motor Operated Valve; R/B; PB; 1 yr; Mild; M; I" Editorial: Correct erroneously omit
3D-43	Appendix 3D Table 3D-2 (Sheet 39) 5 th Row	Add in new 6 th row below: "40; NCS-MOV-316B; Motor Operated Valve; R/B; PB; 1 yr; Mild; M; I" Editorial: Correct erroneously omit
3D-43 to 3D-44	Appendix 3D Table 3D-2 (Sheet 39-40) 1 st Column	Change item numbers from 39-83 to 39-85 Editorial: Number change due to insertion of rows for valves NCS-MOV-316A,B
3D-44	Appendix 3D Table 3D-2 (Sheet 40) 28 th Row, 3 rd Column	Change: "Exchabger" to "Exchanger" Editorial: Correct typographical error
3D-45	Appendix 3D Table 3D-2 (Sheet 41) 2 nd Row, 3 rd Column	Change: "Exchabger" to "Exchanger" Editorial: Correct typographical error
3D-47	Appendix 3D Table 3D-2 (Sheet 43) 19 th Row	Add in new 20 th row below: "9; SGV-AOV-002A; Air Operated Valve; R/B; ESF; 5 min; Harsh; M; I" Editorial: Correct erroneously omit)
3D-47	Appendix 3D Table 3D-2 (Sheet 43) 20 th Row	Add in new 21 st row below: "10; SGV-AOV-002B; Air Operated Valve; R/B; ESF; 5 min; Harsh; M; I" Editorial: Correct erroneously omit)
3D-47	Appendix 3D Table 3D-2 (Sheet 43) 21 st Row	Add in new 22 nd row below: "11; SGV-AOV-002C; Air Operated Valve; R/B; ESF; 5 min; Harsh; M; I " Editorial: Correct erroneously omit)
3D-47	Appendix 3D Table 3D-2 (Sheet 43) 22 nd Row	Add in new 23 rd row below: "12; SGV-AOV-002D; Air Operated Valve; R/B; ESF; 5 min; Harsh; M; I" Editorial: Correct erroneously omit)
3D-48	Appendix 3D Table 3D-2 (Sheet 44) 5 th Row	Add in new 6 th row below: "5; RWS-RRP-001A; A-Refueling Water Recirculation Pump; R/B; ESF; 1 yr; Mild; M; I" Editorial: Correct erroneously omit

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-48	Appendix 3D Table 3D-2 (Sheet 44) 6 th Row	Add in new 7 th row below: "6; RWS-RRP-001B; B-Refueling Water Recirculation Pump; R/B; ESF; 1 yr; Mild; M; I" Editorial: Correct erroneously omit
3D-48	Appendix 3D Table 3D-2 (Sheet 44) 8 th Row, 1 st Column	Change: "2" to "1" Editorial: Correct typographical error
3D-48	Appendix 3D Table 3D-2 (Sheet 44) 9 th Row, 1 st Column	Change: "3" to "2" Editorial: Correct typographical error
3D-48	Appendix 3D Table 3D-2 (Sheet 44) 10 th Row, 1 st Column	Change: "4" to "3" Editorial: Correct typographical error
3D-48	Appendix 3D Table 3D-2 (Sheet 44) 11 th Row	Change: "Equipment (Main Control Room HVAC System)" to "Equipment (Main Control Room HVAC System)" Editorial: Correct typographical error
3D-51	Appendix 3D Table 3D-2 (Sheet 47) 4 th Row, 3 rd Column (Item)	Change: "...Hanndling..." to "...Handling..." Editorial: Correct typographical error
3D-51	Appendix 3D Table 3D-2 (Sheet 47) 5 th Row, 3 rd Column (Item)	Change: "...Hanndling..." to "...Handling..." Editorial: Correct typographical error
3D-51	Appendix 3D Table 3D-2 (Sheet 47) 6 th Row, 3 rd Column (Item)	Change: "...Hanndling..." to "...Handling..." Editorial: Correct typographical error
3D-51	Appendix 3D Table 3D-2 (Sheet 47) 7 th Row, 3 rd Column (Item)	Change: "...Hanndling..." to "...Handling..." Editorial: Correct typographical error

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-51	Appendix 3D Table 3D-2 (Sheet 47) 8 th Row, 3 rd Column (Item)	Change: "...Hanndling..." to "...Handling..." Editorial: Correct typographical error
3D-51	Appendix 3D Table 3D-2 (Sheet 47) 9 th Row, 3 rd Column (Item)	Change: "...Hanndling..." to "...Handling..." Editorial: Correct typographical error
3D-51	Appendix 3D Table 3D-2 (Sheet 47) 10 th Row, 3 rd Column	Change: "...Hanndling..." to "...Handling..." Editorial: Correct typographical error
3D-51	Appendix 3D Table 3D-2 (Sheet 47) 11 th Row, 3 rd Column	Change: "...Hanndling..." to "...Handling..." Editorial: Correct typographical error
3D-56	Appendix 3D Table 3D-2 (Sheet 52) 12 th Row, 3 rd Column	Change: "A-..." to "B-..." Editorial: Correct description
3D-56	Appendix 3D Table 3D-2 (Sheet 52) 13 th Row (Item 141)	Delete row in its entirety Technical: Reflect design enhancement
3D-56	Appendix 3D Table 3D-2 (Sheet 52) 14 th Row (Item 142)	Delete row in its entirety Technical: Reflect design enhancement
3D-58	Appendix 3D Table 3D-2 (Sheet 54) 19 th Row, 4 th Column	Change: "RB" to "R/B" Editorial: Correct typographical error
3D-59	Appendix 3D Table 3D-2 (Sheet 55) 34 th Row, 3 rd Column	Change: "...Compresion" to "...Compression" Editorial: Correct spelling error
3D-59	Appendix 3D Table 3D-2 (Sheet 55) 35 th Row, 3 rd Column	Change: "...Compresion" to "...Compression" Editorial: Correct spelling error

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 2 nd Row, 3 rd Column	Change: "...Compresion" to "...Compression" Editorial: Correct spelling error
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 3 rd Row, 3 rd Column	Change: "...Compresion" to "...Compression" Editorial: Correct spelling error
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 4 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 5 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 6 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 7 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 8 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 9 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 10 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 11 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 12 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 13 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 14 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 15 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 16 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 17 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 18 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 19 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 20 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 21 st Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 22 nd Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 23 rd Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 24 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 25 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 26 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 27 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 28 th Row, 2 nd Column	Delete: "A" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 28 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 29 th Row (Item 38)	Delete row in its entirety Technical: Reflect design enhancement
3D-60	Appendix 3D Table 3D-2 (Sheet 56) 30 th Row (Item 39)	Delete row in its entirety Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 2 nd Row, 2 nd Column	Change: "VWS-TCV-2736B" to "VWS-TCV-2736" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 2 nd Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 3 rd Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 4 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 5 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 6 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 7 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 8 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 9 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 10 th Row, 3 rd Column	Change: "Temperature Control Valve" to "Chilled Water Control Valve" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 12 th Row	Add in new 13 th row below: "51; VWS-VLV-253A; Safety Valve; PS/B; ESF; 1yr; Mild; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 13 th Row	Add in 14 th row below: "52; VWS-VLV-253B; Safety Valve; PS/B; ESF; 1yr; Mild; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 14 th Row	Add in new 15 th row below: "53; VWS-VLV-253C; Safety Valve; PS/B; ESF; 1yr; Mild; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 15 th Row,	Add in new 16 th row below: "54; VWS-VLV-253D; Safety Valve; PS/B; ESF; 1yr; Mild; M; I" Technical: Reflect design enhancement

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 16 th Row	Add in new 17 th row below: "55; VWS-VLV-405; Safety Valve; PCCV; ESF; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 17 th Row	Add in new 18 th row below: "56; VWS-MOV-411A; Motor Operated Valve; PCCV; PB; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 18 th Row	Add in new 19 th row below: "57; VWS-MOV-411B; Motor Operated Valve; PCCV; PB ; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 19 th Row	Add in new 20 th row below: "58; VWS-MOV-411C; Motor Operated Valve; PCCV; PB; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 20 th Row	Add in new 21 st row below: "59; VWS-MOV-411D; Motor Operated Valve; PCCV; PB; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 21 st Row	Add in new 22 nd row below: "60; VWS-TCV-412A; Chilled Water Control Valve; PCCV; PB; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 22 nd Row	Add in new 23 rd row below: "61; VWS-TCV-412B; Chilled Water Control Valve; PCCV; PB; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 23 rd Row	Add in new 24 th row below: "62; VWS-TCV-412C; Chilled Water Control Valve; PCCV; PB; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 24 th Row	Add in new 25 th row below: "63; VWS-TCV-412D; Chilled Water Control Valve; PCCV; PB; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3D-61	Appendix 3D Table 3D-2 (Sheet 57) 25 ^h Row	Add in new 26 th row below: "64; VWS-VLV-414; Motor Operated Valve; PCCV; PB; 1yr; Harsh; M; I" Technical: Reflect design enhancement
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-1	Change: "Reactor Coolant System Flow Diagram (1/3)" to "Reactor Coolant System Flow Diagram (1/2)" Editorial: Correct typographical error

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-2	Change: "Reactor Coolant System Flow Diagram (2/3)" to "Reactor Coolant System Flow Diagram (2/2)" Editorial: Correct typographical error
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-3	Change: "Chemical and Volume Control System Flow Diagram (1/7)" to "Chemical and Volume Control System Flow Diagram (1/4)" Editorial: Correct typographical error
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-4	Change: "Chemical and Volume Control System Flow Diagram (2/7)" to "Chemical and Volume Control System Flow Diagram (2/4)" Editorial: Correct typographical error
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-5	Change: "Chemical and Volume Control System Flow Diagram (3/7)" to "Chemical and Volume Control System Flow Diagram (3/4)" Editorial: Correct typographical error
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-6	Change: "Chemical and Volume Control System Flow Diagram (4/7)" to "Chemical and Volume Control System Flow Diagram (4/4)" Editorial: Correct typographical error
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-7	Change: "Safety Injection System Flow Diagram (3/4)" to "Safety Injection System Flow Diagram" Editorial: Correct typographical error
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-11	Change: "Main Steam System Flow Diagram (1/3)" to "Main Steam System Flow Diagram (1/2)" Editorial: Correct typographical error
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-12	Change: "Main Steam System Flow Diagram (3/3)" to "Main Steam System Flow Diagram (2/2)" Editorial: Correct typographical error
3E-ii	Appendix 3E Figure Table of Contents Figure 3E-13	Change: "Steam Generator Blowdown System Flow Diagram (1/3)" to "Steam Generator Blowdown System Flow Diagram" Editorial: Correct typographical error

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3E-4	Appendix 3E Figure 3E-3 Title	Change: "Chemical and Volume Control System Flow Diagram (1/7)" to "Chemical and Volume Control System Flow Diagram (1/4)" Editorial: Correct typographical error
3E-5	Appendix 3E Figure 3E-4 Title	Change: "Chemical and Volume Control System Flow Diagram (2/7)" to "Chemical and Volume Control System Flow Diagram (2/4)" Editorial: Correct typographical error
3E-6	Appendix 3E Figure 3E-5 Title	Change: "Chemical and Volume Control System Flow Diagram (3/7)" to "Chemical and Volume Control System Flow Diagram (3/4)" Editorial: Correct typographical error
3E-7	Appendix 3E Figure 3E-6 Title	Change: "Chemical and Volume Control System Flow Diagram (4/7)" to "Chemical and Volume Control System Flow Diagram (4/4)" Editorial: Correct typographical error
3E-8	Appendix 3E Figure 3E-7 Title	Change: "Safety Injection System Flow Diagram (3/4)" to "Safety Injection System Flow Diagram" Editorial: Correct typographical error
3E-12	Appendix 3E Figure 3E-11 Title	Change: "Main Steam System Flow Diagram (1/3)" to "Main Steam System Flow Diagram (1/2)" Editorial: Correct typographical error
3E-13	Appendix 3E Figure 3E-12 Title	Change: "Main Steam System Flow Diagram (3/3)" to "Main Steam System Flow Diagram (2/2)" Editorial: Correct typographical error
3E-14	Appendix 3E Figure 3E-13 Title	Change: "Steam Generator Blowdown System Flow Diagram (1/3)" to "Steam Generator Blowdown System Flow Diagram" Editorial: Correct typographical error
3F-iii	Acronyms and Abbreviations CSDRS certified seismic design response spectra	Add new acronyms below: "FIRS foundation input response spectra GMRS ground motion response spectra" Editorial: Added acronyms

US-APWR DCD Chapter 3 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/ sentence/ item, table with row/column, or figure)	Description of Change
3F-1	Subsection 3F.1.1 1 st Paragraph, 4 th Sentence	Add new sentence behind: "Site-specific seismic category I structures are analyzed and designed using as a minimum the site-specific SSE developed from the site-specific ground motion response spectra (GMRS) and foundation input response spectra (FIRS)." Editorial: Clarify scope of statements
3F-1	Subsection 3F.1.2 1 st Paragraph, 3 rd Sentence	Change: "... analyzed and designed by the Combined License Applicant for the site SSE using the same methods ..." to "... analyzed and designed using the same methods ..." Editorial: Clarify scope of statement
3G-ii	Acronyms and Abbreviations CSDRS certified seismic design response spectra	Add new acronyms below: "FIRS foundation input response spectra GMRS ground motion response spectra" Editorial: Added acronyms
3G-1	Subsection 3G.1.1 1 st Paragraph, 4 th Sentence	Add new sentence behind: "Site-specific seismic category I structures are analyzed and designed using as a minimum the site-specific SSE developed from the site-specific ground motion response spectra (GMRS) and foundation input response spectra (FIRS)." Editorial: Clarify scope of statements
3H-29	Appendix 3H Figure 3H.2-1 (Sheet 1)	Change: Expand nodal mass identifiers to four (4) alphanumeric places Editorial: Correct truncated node identifiers
3H-36	Appendix 3H Figure 3H.2-3 Section view	Change: Expand nodal mass identifiers to four (4) alphanumeric places Editorial: Correct truncated node identifiers

US-APWR DCD Chapter 4 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
4.1-2	4.1.1 8 th paragraph	Editorial: Clarify scope of statement Replaced "The intermediate grid spacer design is an advanced version of grid spacers currently in use in Mitsubishi-fueled reactors" with "The intermediate grid spacer is designed based on current version in use in Mitsubishi-fueled reactors with advanced mixing vanes".
4.1-8	Table 4.1-1 (Sheet 3 of 3)	Editorial: Provide consistency wording with others Replaced "NOTES" with "Notes".
4.2-12	4.2.2.2.1 5 th line	Editorial: Clarify scope of statement Replaced "Receiving dropped fuel rods during irradiation and accidents" with " Preventing fuel rods from passing through the bottom nozzle during fuel life" in 3 rd item.
4.2-12	4.2.2.2.1 last line	Editorial: Provide consistency wording with others Replaced " operation" with "fuel life"
4.2-13	4.2.2.2.2 12 th line	Editorial: Clarify scope of statement Replaced " ejection of the fuel rods upward the fuel assembly during accidents" with "fuel rods from passing through the top nozzle during fuel life"
4.2-14	4.2.2.2.2 last paragraph	Editorial: Clarify scope of statement Replaced " rod ejection upward during irradiation and accidents" with "fuel rods from passing through the top nozzle during fuel life"
4.2-27	4.2.3.5.2 8 th line	Submittal of Topical report Replaced " (Reference4.2-6) with "(Reference4.2-14) "
4.2-27	4.2.3.5.2 The last line	Add a reference "(Reference 4.2-15)"
4.2-28	4.2.3.5.2 5 th , 7 th , 10 th and 18 th line	Add a reference "(Reference 4.2-15)"
4.2-28	4.2.3.5.2 18 th line	Put words "the assembly" in front of "bowing" to clarify that this is about the assembly bowing.

US-APWR DCD Chapter 4 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
4.2-30	4.2.3.6.2 last paragraph	Editorial: Clarify scope of statement Replaced "The top end plug with a reduced diameter for stiffness flexibility prevents significant wear by reducing mutual contact force between the burnable absorber rod and the control rod guide thimble." with "Full insertion of burnable rod into the control rod guide thimble during operation induces no turbulent flow and prevents significant wear of the burnable absorber rod."
4.2-35	4.2.6 Reference 4.2.7	Submittal of Technical report Replaced " Later " with " February 2008 "
4.2-35	4.2.6 After Reference 4.2.13	Submittal of Topical report <u>Add "4.2-14 FINDS: Mitsubishi PWR Fuel Assemblies Seismic Analysis Code, MUAP-07034-P (Proprietary) and MUAP-07034-NP (Non-Proprietary), March 2008."</u> after Reference 4.2.13
4.2-36	Table 4.2-1 Last line	Editorial: Provide consistency wording with others Replaced " NOTE " with " Note"
4.3-1	4.3.1 8 th paragraph	Editorial: Remove superfluous description Replaced "The initial excess reactivity of the core design" with "The initial excess reactivity of the core".
4.3-27	4.3.3.1 11 th paragraph	Editorial: Provide consistency wording with others Replaced "boron silicate glass" with "borosilicate glass".
4.3-32	Table 4.3-2	Editorial: Provide consistency wording with others and add supplemental remarks Replaced "NOTE" with "Notes". Added notes "*1 Normal base load operation"; "*2 in the power operating range".
4.3-33	Table 4.3-2	Editorial: Provide consistency wording with others and add supplemental remarks Replaced "NOTE" with "Notes" Added notes "*1 Temperature of cold shutdown is 68 deg.F", "*2 Temperature of hot shutdown is 557deg.F", "*3 Design value", and "*4 All control rods inserted". Replaced "(2) Delta RIA" with "*5 Delta RIA".

US-APWR DCD Chapter 4 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
4.3- 41,42,43, 44,48,49, 50,51,52, 54,55,59	Figure 4.3- 5,6,7,8,12,13,14,15, 16,18,19,23	Editorial: Provide consistency wording with others Replaced "NOTE" with "Note"
4.4-4	4.4.1.3.2 The third and fourth paragraphs	Editorial: Provide consistency wording with others Replaced "the design limit of Min. DNBR" with "the design limits of Min. DNBR".
4.4-6	4.4.2.2.1 The last paragraph	Editorial: Provide consistency wording with others Replaced "the design limit of Min. DNBR" with "the design limits of Min. DNBR".
4.4-8	4.4.2.2.4 The second paragraph	Editorial: Correct grammar Replaced "will be" with "is".
4.4-9	4.4.2.6 The third line	Editorial: Correct component description Replaced "upper core support plate" with "upper core plate".
4.4-12	4.4.2.9.1 The second and third paragraphs	Editorial: Provide consistency wording with others Replaced "the design limit of DNBR" with "the design limits of Min. DNBR".
4.4-13	4.4.2.9.1 The fourth paragraph	Editorial: Provide consistency wording with others Replaced "the design limit of DNBR" with "the design limits of Min. DNBR".
4.4-14	4.4.2.9.3 The second paragraph	Editorial: Provide consistency wording with others Replaced "design limit of DNBR" with "the design limits of Min. DNBR".
4.4-16	4.4.2.11.1 The eleventh line	Editorial: Clarify scope of statement Replaced "the thermal conductivity is given" with "the thermal conductivity is corrected".
4.4-28	4.4.7 The first paragraph	Editorial Clarify scope of statement and correct grammar -Replaced "applicants" with "applicant". -Replaced "can be available" with "are valid" -Replaced "specs" with "uncertainties" -Replaced "can cover" with "covers"

US-APWR DCD Chapter 4 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
4.4-28	4.4.7 The first line	Editorial: Provide consistency wording with others Replaced "the design limit DNBR" with "the design limits of Min. DNBR".
4.4-28	4.4.7 The third line	Editorial: Provide consistency wording with others Replaced "the safety analysis limit DNBR value" with "the safety analysis limit of Min. DNBR value".
4.4-28	4.4.7 The forth line	Editorial: Provide consistency wording with others Replaced "the new design limit DNBR" with "the new design limits of Min. DNBR".
4.5-8,9	Table 4.5-1,2	Editorial: Provide consistency wording with others Replaced "notes" with "Notes".
4.6-1	4.6.2 first paragraph	Editorial: Clarify scope of statement The first paragraph of 4.6.2 is changed from "The CRDS has been analyzed in detail in the failure mode and effects analysis described in Reference 4.6-3. This report, and the analyses described in Section 7.2 demonstrate that the CRDS performs its intended safety function, a reactor trip, by placing the reactor in a subcritical condition when plant parameters exceeds reactor trip setpoint, and with any assumed credible failure of any single active component, in compliance with GDC 25." into "The CRDS takes a part of the reactor trip system. The detail of the failure mode and effects analysis (FMEA) on the CRDS is described in Reference 4.6-3. The FMEA of the reactor trip system is also performed as described in Section 7.2. These analyses demonstrate that the CRDS performs a reactor trip when plant parameters exceeds the reactor trip setpoint. By this performance, the reactor is placed in a subcritical condition with any assumed credible failure of any single active component, in compliance with GDC 25." .

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5-i	CONTENTS 5.2	Editorial: Correct typographical error Replaced: "Of" to "of"
5-ii	CONTENTS 5.2.5.7 and 5.2.5.8	Editorial: Correct typographical error Added Subsection number "5.2.5.7 Calibration and Inspection Requirements" and moved from 5.2.5.7 to 5.2.5.8.
5-vi	TABLES Table 5.3-4	Editorial: Correct typographical error Replace "RTNDT" to "RT _{NDT} "
5-viii	FIGURES Figure 5.4.7-4	Editorial: Correct typographical error Deleted "Normal Shutdown"
5-xi	ACRONYMS AND ABBREVIATIONS	Editorial: Acronym added Added "RMI"
5.1-1	Section 5.1 Second sentence of first paragraph	Editorial: Correct grammatical error Replaced "... the RCS consists of a reactor vessel (RV), the steam generators (SGs), the reactor coolant pumps (RCPs), the pressurizer and pressurizer relief tank (PRT), and the reactor coolant pipes...." to "... the RCS consists of a reactor vessel (RV), steam generators (SGs), reactor coolant pumps (RCPs), pressurizer, pressurizer relief tank (PRT), reactor coolant pipes".

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.1-12, 13, 14	Figure 5.1-2 Reactor Coolant System Piping and Instrumentation Diagram	<p>Technical: Modification due to design progress</p> <p>Revised the figure including the followings</p> <ul style="list-style-type: none"> • Added VLV-006 and 007 to vessel flange leak off line including the Note 16 • Added T.V and T.C to C/V penetration lines • Replaced the location of VLV-134 and VLV-135 on N2 gas supply line • Deleted the line from RHRS to PRT • Deleted the boundary code on the PRT drain line • Deleted VLV-152 and 154 on downstream of VLV-151 and 153 • The symbol “Locked closed” is added to valves; VLV-022A,B,C,D, VLV-023A,B,C,D, VLV-024 and VLV-025. • Pressure, temperature and line spec boundary code of AOV-010 are corrected. • Radioactive concentration boundary code of VLV-120,121,122,123,137,161, MOV-117A,B and MOV-003A,B are deleted. • Valve size of VLV-034 is corrected from 10 inch to 3/4 inch. • VLV-137 is revised to normal closed valve. • Radioactive concentration at the upstream of VLV-124 is corrected from “>=37(G)” to “>=37(L)”. • C/V penetration No. is added. • The remark is added.
5.2-1	5.2.1.1, first paragraph	<p>Editorial: Clarify scope of statement</p> <p>Added sentence about compliance with GDC-1</p>

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.2-1	5.2.1.1, second paragraph	Editorial: Clarify scope of statement Added the sentence “as required by 10 CFR 50.47(b)(1)” and replaced “...are covered in Chapter 14” to “...are covered in Tier 1 document based on the selection criteria of Section 14.3. (Ref. 5.2-34)”
5.2-2	5.2.1.2 first paragraph	Editorial: Provided clarification Add “for RCPB Class 1 Components” and “Code Cases for Class 2 & 3 piping are covered in Section 3.12.”
5.2-3	Table 5.2.1-1	Editorial: Provided clarification Added Note (3).
5.2-4	Table 5.2.1-2	Editorial: Deleted sentence based on the following reason Deleted the code cases of Class 2 and 3 piping because these code cases are addressed in Section 3.12. And deleted Note (1) and (2) because these sentences are same as the descriptions of Section 5.2.1.2.
5.2-10	5.2.2.4 last sentence	Editorial: Provided clarification Added the sentence “ The COL applicant addresses the actual throat area of ...”.
5.2-17	5.2.3.2.3 first paragraph	Technical: Added based on the technical report description Added description of Reflective Metal Insulation. (Description is in technical report MUAP-080001)
5.2-18	5.2.3.2.3 second paragraph first sentence	Editorial: Provided clarification Added the sentence “which may be applied to small segments of pipe line,”.
5.2-20	5.2.3.4 third paragraph first sentence	Editorial: Correct the Subsection number Changed “Subsection 5.2.3.4.1 through 5.2.3.4.4” to “Subsections 5.2.3.4.1 and 5.2.3.4.2”.

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.2-31	5.2.4.1 second paragraph	<p>Editorial: Provided clarification</p> <p>Replaced the wording from “The 2001 edition with 2003 addenda of the Code is used” to</p> <p>“The inservice inspection and testing program complies with the incorporated by reference in 10 CFR 50.55a(b). Inservice examinations conducted during as needed in the program for use.”</p> <p>The reason of the change is that original sentence complies with the current 10 CFR 50.55a(b), but ISI program should be incorporated by reference with the future 10 CFR 50.55a(b).</p>
5.2-31	5.2.4.1 third paragraph	<p>Editorial: Correct the reference number</p> <p>Change the reference number from 5.2-25 to 5.2-35, and deleted the formerly name of ISTB and ISTC.</p>
5.2-31	5.2.4.1 fifth paragraph	<p>Editorial: Provided clarification</p> <p>Added “, as described in NRC Generic Letter 88-05. (Ref. 5.2-37).”</p>
5.2-33	5.2.4.1.2 second paragraph	<p>Editorial: Deleted sentence because of the following reason</p> <p>Deleted reference to Regulatory Guide 1.150 because this RG was withdrawn from NRC RG list in February 2008.</p>
5.2-33	5.2.4.1.2 third paragraph	<p>Editorial: Correct the sentence</p> <p>Deleted “if any”.</p>
5.2-33	5.2.4.1.6	<p>Editorial: Deleted COL applicant item because ISI program will be COL Holder’s item.</p> <p>Changed “Complete list of ... are...ISI program to be submitted by the COL applicant” to</p> <p>“ Complete list of ... is...ISI program”.</p>
5.2-34	5.2.4.1.7	<p>Editorial: Deleted COL applicant item</p> <p>Changed “The COL applicant discusses any requests for relief from ...of construction.” to</p> <p>“Relief requests from...of construction are developed through the regulatory process in accordance with 10 CFR 50.55a(a)(3) or 50.55a(g)(5).”</p>

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.2-34	5.2.4.1.7	Editorial: Correct grammatical error Changed “specific information are...” to “specific information is...”
5.2-34	5.2.4.2 first paragraph	Editorial: Provided clarification Added the description “The PSI program complies with the edition and addenda of ,,in the program for use.”
5.2-37	5.2.5.3.1 Identified Intersystem Leakage Detection E. RHR Emergency Letdown Lines	Editorial: Correct typographical error Changed " SIS-MOV-031A and -031D and SIS-MOV-032A and -032D " to " SIS-MOV-031B and -031D and SIS-MOV-032B and -032D ".
5.2-38	5.2.5.4.1.1 Containment Sump Level and Flow Monitoring System	Editorial: Clarify a system function Added " and recorded " to last sentence of first paragraph.
5.2-39	5.2.5.4.1.4 Containment Air Cooler Condensate Flow Rate Monitoring System Second sentence of the first paragraph.	Editorial: Use adequate term Replaced “ permits ” with “ enables ”.

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.2-39	5.2.5.4.2 Additional Unidentified Leakage Detection Methods The first paragraph	Editorial: Correct scope of Statement Changed " This leakage must be sufficient to cause a decrease in the volume control tank level that is within the sensitivity range of the level indications. The flow rate of the charging pump would automatically increase to maintain pressurizer level. Charging pump discharge flow indication is provided in the MCR." to " This leakage would cause a decrease in the volume control tank level. The flow rate of the charging pump would automatically increase to maintain pressurizer level. The indications of charging flow rate and volume control tank level are provided in the MCR."
5.2-40	5.2.5.4.2 Additional Unidentified Leakage Detection Methods The second paragraph	Editorial: Correct typographical error Changed " the charging pump flow rate " to " charging flow rate ".
5.2-41	5.2.5.7 Testing, Calibration and Inspection Requirements	Editorial: Correct typographical error Added subsection number "5.2.5.7".
5.2-41	5.2.5.7 Testing, Calibration and Inspection Requirements	Editorial: Correct typographical error Changed " frictional " to " functional ".

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.2-41	5.2.5.8 Limits for Reactor Coolant Leakage Rates within the RCPB	Editorial: Correct typographical error Changed " 5.2.5.7 " to " 5.2.5.8 ".
5.2-42	COL 5.2(1) - 5.2(5) COL 5.2(10)	Editorial: Provided clarification Add the title of each COL information.
5.2-42	COL 5.2(6) COL 5.2(7)	Editorial: Deleted COL items Deleted because description is covered in the DCD.
5.2-42	COL 5.2(8) COL 5.2(9)	Editorial: Deleted COL items Deleted the COL information because this information is already described in Tier-1 document.
5.2-42	COL 5.2(10)	Editorial: Clarify scope of statement Changed "The COL applicant addresses detailed information that can be determined after discussion with procurement venders, such as design of the valves and insulations." to "The COL applicant addresses the actual throat area of the pressurizer safety valves and the CS/RHR pump suction relief valves."
5.2-43 and 5.2-44	Reference 5.2-9 and 5.2-18	Editorial: Change based on the following reason Changed the revision number of RG 1.84 and 1.147 because these revision numbers are updated by NRC.
5.2-44	Reference 5.2-19	Editorial: Deleted based on the following reason Deleted the Regulatory Guide 1.150 because this RG was withdrawn from NRC RG list in February 2008.
5.2-44 – 5.2-45	References 5.2-19, 5.2-34, 5.2-35, 5.2-36, 5.2-37.	Editorial Deleted Ref. 5.2-19, and add Ref. 5.2-34, 5.2-35, 5.2-36, and 5.2-37.

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.3-2	5.3.1.1 Last paragraph of subsection	Editorial: Added description of ITAAC item concerning verification of actual material properties. Added "Verification of conformance with material specification requirements, including applicable requirements identified in Subsections 5.3.1.5 and 5.3.2, is identified as an ITAAC item." at the end of the subsection.
5.3-6	5.3.1.5 Second paragraph of subsection	Editorial: Reflected revision of COL items in Subsection 5.3.4. Deleted "Combined License (COL) information for the fracture toughness data is described in Subsection 5.3.4." at the end of the subsection.
5.3-7	5.3.1.6 Second paragraph	Editorial: Clarification of COL applicant's activity. Added "Implementation of the reactor vessel material surveillance program for a specific plant is addressed by the COL applicant." after the first paragraph of the subsection.
5.3-8, 5.3-9	5.3.1.6.1 Fifth paragraph of subsection	Editorial: Clarification of statement by rewording paragraph and adding reference to COL item in Subsection 5.3.4. Revised by moving last sentence of paragraph between second and third sentence and rewording. Added "Plant-specific orientation and the resulting lead factors for the capsules will be addressed by the COL applicant for each plant." at the end of the paragraph.
5.3-9	5.3.1.6.1 Sixth paragraph of subsection	Editorial: Clarification of COL applicant's activity. Revised "The use of such capsules and their withdrawal schedule will be specified for each plant as described in Subsection 5.3.4." to "The use of such capsules and their withdrawal schedule will be addressed by the COL applicant for each plant."

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.3-9, 5-3-10	5.3.1.6.1 Last paragraph of subsection	Editorial: Clarification of COL applicant's activity. Revised " Applications of these, if any, will be plant specific and detailed in the reactor vessel material surveillance program described in Subsection 5.3.4." to "Applications of these programs, if any, will be addressed by the COL applicant in the reactor vessel material surveillance program for a specific plant."
5.3-10, 5.3-11	5.3.1.7 Second and ninth paragraph of subsection	Editorial: Clarification of reactor vessel part being referenced. Revised references in text from "vessel flange shell" to "vessel flange".
5.3-12	5.3.2.1 Second paragraph of subsection	Editorial: Clarification of COL applicant's activity. Revised "Curves in accordance with plant specific data will be developed as described in Subsection 5.3.4." to "The COL applicant will address curves developed in accordance with plant-specific data."
5.3-17	5.3.2.2 Last paragraph of subsection	Editorial: Clarification of COL applicant's activity. Revised "Plant operating procedures are established so that actual transients do not exceed the established P-T limits." to "Plant operating procedures are established by the COL applicant so that actual transients do not exceed the established P-T limits."
5.3-17	5.3.2.3 Last paragraph of subsection	Editorial: Clarification of COL applicant's activity. Revised "The RT_{PTS} values will be calculated based on plant-specific material property requirements, as detailed in Subsection 5.3.4." to "The RT_{PTS} values will be calculated based on plant-specific material property requirements, which will be verified by the COL applicant."

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.3-18	5.3.2.4 Last paragraph of subsection	Editorial: Clarification of COL applicant's activity. Revised "The USE at EOL will be calculated based on plant-specific material property requirements as described in Subsection 5.3.4." to "The USE at EOL will be calculated based on plant-specific material property requirements, which will be verified by the COL applicant."
5.3-19	5.3.3.1 Second and third paragraph of subsection	Editorial: Clarification of reactor vessel part being referenced. Revised references of "vessel flange shell" to "vessel flange and upper shell". Revised reference of "vessel flange shell" to "upper shell".
5.3-19	5.3.3.1 11th, 12th and 13th paragraphs of subsection	Editorial: Clarification of reactor vessel part being referenced and change in description of reactor vessel flange and upper shell. Revised references of "vessel flange shell" to "vessel flange". Deleted first sentence of last paragraph. Revised " As described above, the vessel flange shell is a large ring forging with an integral flange." to "The upper shell is also a large ring forging." Revised references of "vessel flange shell" to "upper shell".
5.3-20	5.3.3.1 17th paragraphs of subsection	Editorial: Clarification of reactor vessel part being referenced. Revised reference of "vessel flange shell" to "vessel flange".

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.3-23	5.3.3.5 First paragraph of subsection	Editorial: Clarified part of reactor vessel being referenced. Revised references of “vessel flange shell” to “vessel flange”.
5.3-24	5.3.3.7 First paragraph of subsection	Editorial: Clarification of COL applicant’s activity. Revised “Actual inspections to be applied to a specific plant are provided by the COL applicant as stated in Subsection 5.3.4.” to “Actual inspections to be applied to a specific plant are provided by the COL applicant.”
5.3-24	5.3.3.7 Fifth paragraph of subsection	Editorial: Clarification of reactor vessel part being referenced. Revised references of “vessel flange shell” to “upper shell”.
5.3-27	5.3.4 COL 5.3(3)	Editorial: Clarification of COL item. Revised title of COL item from “Surveillance Capsule Lead Factor and Azimuthal Location Confirmation” to “Surveillance Capsule Orientation and Lead Factors”. Revised description of COL applicant’s activity from “The COL applicant confirms the azimuthal location and lead factors for the surveillance capsule of a particular US-APWR plant.” to “The COL applicant addresses the orientation and resulting lead factors for the surveillance capsules of a particular US-APWR plant.”
5.3-27	5.3.4 COL 5.3(4)	Editorial: Clarification of scope of COL item. Revised description of COL applicant’s activity from “The COL applicant verifies plant-specific beltline region material property requirements in accordance with the requirements in Subsections 5.3.1.5, 5.3.2.1 and Table 5.3 1. The verification includes evaluating the USE and RTNDT at EOL, and a PTS evaluation...” to “The COL applicant verifies the USE and RTNDT at EOL, including a PTS evaluation...”

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.3-34	Table 5.3-5	<p>Editorial: Added units for dimension.</p> <p>Added “[inch]” after “Height from top of vessel flange mating surface to bottom of hemispherical bottom head dome”.</p>
5.3-37	Figure 5.3-4	<p>Editorial: Changed name of reactor vessel part for clarification.</p> <p>Changed identification of “Vessel Flange Shell” to “Vessel Flange and Upper Shell”.</p>
5.4-2	5.4.1.1.2 Fabrication and Inspection last paragraph	<p>Editorial: Clarify scope of statement</p> <p>Added the following text after the last paragraph: “The inspection program is discussed in Technical Specification 5.5.7, Reactor Coolant Pump Flywheel Inspection Program.”</p>
5.4-16	5.4.2.1.2.10	<p>Editorial: Clarify scope of statement</p> <p>#1 paragraph: Changed “evaluated” to “analyzed” .</p> <p>#2 paragraph: Added to the description concerning RG 1.20 “RG 1.20..... does not apply.”.</p>
5.4-19- 5.4.21	5.4.2.2.2 Elements of Steam Generator Program	<p>Editorial: Addition of descriptions</p> <p>Added descriptions for SG tube integrity program corresponding to COL 5.4(2) to 5.4(7) in Revision 0.</p>
5.4-25	Figure 5.4.2-1	<p>Editorial: Correct typographical error</p> <p>Correction of tag characters</p>

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.4-37	5.4.7.2.1 Third paragraph, last sentence	Editorial: Consistency with design Deleted "with power lockout capability"
5.4-60, 61	Figure 5.4.7-2	Technical: Design progress Revised the figures including the followings. <ul style="list-style-type: none"> • Added connections for CS/RHR pump washing • Added temporary pressure gauge connections on the pump suction for flushing • Added valves for pump drain • Added valves for containment isolation valve leak test • Added reducers (10"x8") in pump discharge line • Added penetration numbers • Changed connections relief line in RHR return line and locations of relief discharge • Added flanges of Hx bypass valves • Added remarks related to pumps and motor operated valves • Added design conditions in the figures • Changed channel number from FICA-624 to FIA-624, and from FIA-634 to FICA-634 • Changed line connection from D-RHR train to SFP
5.4-70	5.4.10.2.1 First paragraph	Editorial: typo Replaced " Table 5.2-1 " with " Table 5.2.3-1 ".
5.4-82	5.4.11.2 System Description The last paragraph	Editorial: Correct grammatical error Replaced " on the PRT " with " of the PRT ".

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.4-82	5.4.11.3 Performance Evaluation Last paragraph	Editorial : Correct grammatical error Replaced " if the contents " with " in the event that the contents ".
5.4-84	Table 5.4.11-2 Discharges to the Pressurizer Relief Tank	Technical: Revised according to the change of RHRS Deleted " RHR pump discharge line relief valves ".
5.4-86	5.4.12 Reactor Coolant System High Point Vents	Editorial: Correct grammatical error Replaced " (DV) are could " with " (DV) could ".
5.4-89	5.4.12.3 Performance Evaluation (B) Safety depressurization valve The 3rd bullet	Editorial: Correct grammatical error Replaced " beingremoved " with " removed ".
5.4-91	Table 5.4.12-2	Editorial: Typo Revised "53,000" to "530,000".
5.4-92	5.4.13. COL 5.4(1)~5.4(7)	Editorial Deleted from COL item because RCP inspection interval is described in DCD Chapter 16, and SG program is added in DCD.
5.4-93	5.4.14 References 5.4-21	Editorial Added Reference to RG 1.20

US-APWR DCD Chapter 5 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.4-93	5.4.14. References, 5.4-22	Editorial Added Reference to NUREG-1431.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6-i	CONTENTS 6.1	Editorial: Clarify word Replaced "Engineering" with "Engineered".
6-ix	Table 6.2.1-32 and 6.2.1-33	Editorial: Provide consistency with table Added tables.
6-ix	Tables 6.4-2, title	Editorial: Change to appropriate name Replaced "Emergency Control Room Envelope Ventilation" with "Main Control Room Emergency Filtration System"
6-xvii	Figure 6.4-1, title	Replaced the Figure. Editorial: Reflect the latest room name.
6-xviii	Figure 6.4-5, title	Editorial: Change to correct system name Replaced "Emergency Control Room Envelope Ventilation System" with "Main Control Room Emergency Filtration System".
6-xviii	Figure 6.4-6, title	Editorial: Change to correct system name Replaced "Emergency Control Room Envelope Ventilation System" with "Main Control Room Emergency Filtration System".
6-xix 6-xx 6-xxi 6.0-3 6.2-20	ACRONYMS AND ABBREVIATIONS 6.0.3 forth paragraph 6.2.1.2.2 Regenerative Heat Exchanger room	Editorial: Clarify scope of statement Replaced "chemical volume and control system" with "chemical and volume control system" Replaced "fire service system" with "fire protection water supply system" Replaced "SS sampling system" with "PSS process and post accident sampling system"
6.0-2	6.0.2 second paragraph	Editorial: Remove superfluous words Replaced " pounds per square inch gauge (psig)" with "psig"

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

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6.1-2	6.1.1.1, fifth paragraph	<p>Editorial: Change to appropriate statement</p> <p>Replaced “ Pressure-retaining cold-worked austenitic stainless steel components are minimized, when possible. The use of pressure-retaining cold-worked austenitic stainless steel components is controlled, measured, and documented during the fabrication process, including abrasive work. The pressure-retaining cold-worked austenitic stainless steel components with a 0.2% yield strength greater than 90,000 pounds per square inch (psi) are not be used in ESF systems to reduce the possibility of stress-corrosion cracking. The Combined License (COL) Applicant is responsible to develop an augmented ISI program to ensure the structural integrity of such components during service.” with “Cold-worked austenitic stainless steel is not used for pressure boundary applications. If such material is used for other applications when there is no proven alternative available, cold work is controlled, measured and documented during each fabrication process. The COL Applicant is responsible to develop an augmented ISI program to ensure the structural integrity of such components during service. Cold-worked austenitic stainless steels have a maximum 0.2 percent offset yield strength of 620 MPa (90,000 psi) to reduce the probability of stress-corrosion cracking in ESF systems.”.</p>
6.1-3	6.1.1.2	<p>Editorial: Remove superfluous word</p> <p>Replaced “ parts per million (ppm)” with “ ppm”</p>
6.1-3	6.1.1.2.1, first paragraph	<p>Editorial</p> <p>Replaced “NaTB” with “ sodium tetraborate decahydrate (NaTB)”</p>
6.1-3	6.1.1.2.1, second paragraph	<p>Editorial: Change to appropriate statement</p> <p>Separated COL Items 6.1(3) and 6.1(4) in para 6.1.1.2.1 into separate COL items similar to COL items in para. 6.1.3</p> <p>Replaced “and the control of hydrogen generation within a post-LOCA environment” with “ The COL Applicant is responsible to identify materials within the containment that would yield hydrogen gas by corrosion from the emergency cooling or containment spray solutions, and their use should be limited as much as practicable.”</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
6.1-4	6.1.1.2.1, last paragraph	Editorial: Change to appropriate statement Replaced "Chapter 5, Subsection 5.2.3.2.3, provides further details on the external insulation requirements applicable to ESFs." with "Chapter 5, Subsection 5.2.3.2.3, provides further details on the external insulation requirements which are also applicable to ESFs."
6.1-4	6.1.1.2.2, last paragraph	Editorial: Change to appropriate statement Replaced " Control of welding, heat treatment, welder qualification, and contamination protection for ESF ferritic and austenitic stainless steels material fabrication are described in Chapter 5, Subsection 5.2.3." with " Chapter 5, Subsection 5.2.3 describes control of welding, heat treatment, welder qualification, and contamination protection ferritic and austenitic stainless steels material fabrication which are also applicable to ESFs."
6.1-5	6.1.2	RAI Project No. 45-876 Deleted" (e.g., inorganic zinc)".
6.1-6	6.1.3, COL Item 6.1(6)	Editorial: Change the COL activity Deleted COL Item because it is not a requirement of RG1.206
6.2-4	6.2.1.1.2, seventh paragraph	Editorial: Refer the correct section Corrected referred section from "1.3" to "1.2"
6.2-16 6.2-61 6.2-76	6.2.1.1.3.4, fourteenth paragraph 6.2.8 COL Item 6.2(1) Table 6.2.1-9, Note	Editorial: Add COL Information appropriate place Inserted the following information after first sentence. The COL Applicant is responsible to provide best estimates of heat sinks in the COL Application, update the FSAR based on as-built information and confirm the values are bounded by the values in containment analyses. and Deleted "Note" of Table 6.2.1-9.
6.2-18	6.2.1.2.2 Reactor Cavity	Editorial: Change to correct number Corrected elevation "35 ft.-3 in." to "39 ft. - 3 in."

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-19	6.2.1.2.2 Steam Generator Subcomparten	<p>Editorial:</p> <p>Changed Steam Generator Subcompartment paragraph because it should be consistent with the Technical Report of Subcompartment Analysis for US-APWR Design Confirmation.</p> <p>From " The subcompartment analysis is performed by assuming a 6-inch diameter break of the pressurizer spray line connected to the reactor coolant piping (cold leg at EL. 40 ft.- 4 in.), or a 16-inch feedwater pipe (EL. 90 ft.- 9 in.), as the worst case."</p> <p>to</p> <p>"The subcompartment analysis is performed by determining the worst case associated with a 10-inch diameter break of the RHR pump inlet line or an 8-inch diameter break of the RHR pump outlet line connected to the reactor coolant piping, or a 16-inch feedwater pipe (EL. 90 ft.- 9 in.)."</p>
6.2-19	6.2.1.2.2 Pressurizer Subcompartment	<p>Editorial:</p> <p>Changed Pressurizer Subcompartment because it should be consistent with the Technical Report of Subcompartment Analysis for US-APWR Design Confirmation.</p> <p>From " The worst-case postulated pipe break in the subcompartment assumes that the 8-inch pressurizer pressure relief line which connects to 8the top of the pressurizer fails (EL. 122 ft.- 6 in.)."</p> <p>to</p> <p>"The subcompartment analysis is performed by determining the worst case associated with an 8-inch diameter break of the pressurizer pressure relief line, or a 6-inch pressurizer spray line."</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-26	6.2.1.3.9, first paragraph	<p>RAI Project No. 0751 Question 13</p> <p>Changed sentences because of additional Table 6.2.1-32 and 6.2.1-33 as follows:</p> <p>From “The total mass and energy transferred from the primary and secondary systems to the containment, as well as the energy remaining in the primary and secondary systems for each source, are presented in Table 6.2.1-12 and Table 6.2.1-14. These values are for the worst cold-leg pump suction and hot-leg pipe breaks at the following times:”</p> <p>to</p> <p>“Table 6.2.1 12 and Table 6.2.1 14 provide the total energy transferred from the primary and secondary systems to the containment, as well as the energy remaining in the primary and secondary systems for each source. Table 6.2.1-32 and Table 6.2.1-33 show mass and energy distribution with additional information concerning inventories, injections, generated energy and effluent. Values in Table 6.2.1-12, Table 6.2.1-32 and Table 6.2.1-33 are for the worst cold-leg pump suction break, and those in Table 6.2.1-14 are for hot-leg pipe break at the following times:”</p>
6.2-32	6.2.1.4.2.2, sixth dotted paragraph	<p>Editorial:</p> <p>Corrected referred subsection from “15.0.2.4” to “15.0.0.2.4”</p>
6.2-37 6.2-61 6.2-138	6.2.1.5.7, first paragraph 6.2.8 COL Item 6.2(1) Table 6.2.1-30, Note	<p>Editorial: Add COL Information appropriate place</p> <p>Insert the following information after first sentence.</p> <p>The COL Applicant is responsible for providing best estimates of heat sinks in the COL Application, update the FSAR based on as-built information and confirm the values are bounded by the values in containment analyses.</p> <p>and</p> <p>Replaced “They are divided, “ with “The heat sinks are divided”</p> <p>and</p> <p>Deleted “Note” of Table 6.2.1-30.</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-39 6.2-61	6.2.1.6, first paragraph 6.2.8, COL Item 6.2(2)	Editorial: Clarify COL activity Replaced "The COL Applicant is responsible to prepare and implement an initial test program consistent with DCD Chapter 14 in accordance with RG 1.68 to ensure Operational readiness. " with " A description of the initial test program for the containment is included in Section 14.2 that applies to construction, preoperational and startup testing. Subsection 3.8.3.7.1 includes construction inspection acceptance criteria. Requirements for the containment structural integrity test, containment local leak rate, and containment integrated leak rate preoperational tests are included in Subsections 14.2.12.1.61 through 14.2.12.1.63." and Deleted COL Item 6.2(2)
6.2-39	6.2.1.6, second paragraph	Editorial: Clarify statement Corrected referred subsection in the first sentence from "3.8.3" to "3.8.3.7" and deleted the term "Chapter 3". Deleted the second sentence because of similar meaning to the previous sentence.
6.2-43	6.2.2.2, third paragraph	Editorial: Change Acronym to description because of first using in this chapter Replaced "RSC" with "the remote shutdown console (RSC)".
6.2-43,44	6.2.2.2, after fifth paragraph	Editorial : Provide information about countermeasure of gas void Insert the following sentences: "Potential voids, caused by insufficient venting, may be formed in the CS/RHR lines. Inservice testing required by Section 3.9.6.2 includes periodic testing through the full-flow test lines, which discharge to the RWSP. These tests periodically discharge potential voids, minimize unacceptable dynamic effects such as water hammer and ensure operability of the suction and discharge lines."

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-44	6.2.2.2, seventh paragraph	Editorial: Change to correct section title Replaced "Initial Test Program" with "Section 14.2, "Initial Plant Test Program"".
6.2-44	6.2.2.2.1, second paragraph	Editorial: Change to correct chapter title Replaced "Instrumentation and Control Systems" with "Instrumentation and Controls".
6.2-45	6.2.2.2.4, first paragraph	Editorial: Change the statement correctly Delete "on the operating floor of the containment"
6.2-45	6.2.2.2.5, second paragraph	Editorial: Add text to explain the design basis of 9.6 psi. Added "(9.6 psi is the differential pressure between containment atmosphere and the RWSP air space during a LOCA.)"
6.2-46	6.2.2.2.5, last two paragraphs 6.2.2.2.6 add new subsection	Technical: Incorporate the Technical Report, "Sump Strainer Performance," MUAP-08001 Added new section to address strainer design and post accident performance and deleted excessive information duplicated in the Sump Strainer Performance Evaluation document.
6.2-47	6.2.2.2.7 6.2.2.2.7.1 6.2.2.2.7.2 6.2.2.2.7.3	Editorial: Incorporate addition of 6.2.2.2.6 "ECC/CS strainers". The numbers of subsections are changed.
6.2-48 6.2-49 6.2-61	6.2.2.3, fifth paragraph 6.2.8, COL Item 6.2(4)	Technical: Incorporate the Technical Report, "Sump Strainer Performance," MUAP-08001 Referred and summarized "the Sump Strainer Performance Evaluation document (Ref. 6.2-34) ", and delete excessive information duplicated in this document. and Deleted COL Item 6.2(4).

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-49	6.2.2.3, after fifth paragraph	<p>Editorial: Incorporate the information described in Subsection 6.2.8, COL 6.2(9)</p> <p>Added text to DCD exactly as stated in and to be consistent with COL 6.2(9):</p> <p>"Selection, purchase, and installation of specific insulation products are controlled by administrative programs developed by the COL applicant".</p>
6.2-49	6.2.2.3, ninth paragraph	<p>Editorial:</p> <p>Replaced "a foreign" with "a cleanliness, housekeeping and foreign".</p>
6.2-49 6.2-61	6.2.2.3, last paragraph 6.2.8, COL Item 6.2(3)	<p>Editorial :Eliminate the COL Item implemented as ITAAC</p> <p>Deleted "An NPSH evaluation of the CSS head loss is prepared by the COL applicant and the FSAR updated based on as-built information."</p> <p>and</p> <p>Deleted COL Item 6.2(3).</p>
6.2-50	6.2.2.4, first paragraph	<p>Editorial: Chang to correct section title</p> <p>Replaced "Initial Test Program" with "Section 14.2, "Initial Plant Test Program""</p>
6.2-50	6.2.2.4, fifth paragraph	<p>Editorial: Clarify scope of statement</p> <p>Replaced "an IST pump and valve program" with "an IST program for pumps and valves ".</p>
6.2-50 6.2-61 6.2-150	6.2.2.4, before last paragraph 6.2.8, COL Item 6.2(10) Table 6.2.2-2 line 1.1.5	<p>Editorial: Add detailed information in DCD, and delete COL Item</p> <p>Add "Technical Specification surveillance 3.5.2.5 provides inspection requirements for strainer structural distress and evidence of abnormal corrosion."</p> <p>and</p> <p>Deleted COL Item 6.2(10).</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-53 6.2-177	6.2.4.2, forth paragraph, after last sentence Table 6.2.4-3	Editorial: Moved the following information from note in Table 6.2.4-3 to clarify the COL item. Insert the following information. Table 6.2.4-3 presents the list of containment penetrations and system isolation positions. As built pipe run distances from outer containment isolation valve to the containment penetration are provided by the COL applicant. and Deleted "Note" of Table 6.2.4-3.
6.2-55	6.2.4.4, second sentence	Editorial: Corrected chapter name Replaced "Initial Test program" with "Verification Programs"
6.2-55 6.2-57 6.2-58 6.2-59 6.2-61	6.2.5 6.2.5.2 6.2.5.5 6.2.8, COL Item 6.2(7)	Editorial: Change and the term of hydrogen monitor to consistent with RG 1.7 Replaced "hydrogen detector" and "combustible gas analyzer" with "hydrogen monitor".
6.2-55 6.2-56 6.2-59 6.2-326	6.2.5 6.2.5.5 Figure 6.2.5-1	Editorial: Change the system line correctly. Replaced "the post-accident containment atmospheric sampling line." with "the radiation monitoring system containment air sampling line." And added the following sentence at the end of second paragraph of subsection 6.2.5. "The containment penetration portion of this line is shared with the post-accident containment atmospheric sampling line."
6.2-56	6.2.5, forth paragraph	Editorial: Delete the description of elevation. Delete "EL.50 ft.-2 in." and "EL.75 ft.-3 in."

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-60 6.2-64	6.2.6.4 6.2.9, Ref. 6.2-31	<p>Editorial: Change the references correctly, and delete the COL Item</p> <p>Replaced "ANSI/ANS-56.8(Ref. 6.2-31)." with " NEI 94-01 (Ref. 6.2-31), as modified and endorsed by the NRC in RG 1.163(Ref. 6.2-30)."</p> <p>and</p> <p>Editorial:</p> <p>Replaced "<u>Containment System Leakage Testing Requirements</u>, American National Standards Institute/American Nuclear Society, ANSI/ANS-56.8-2002, January 2002. " with "<u>Industry Guideline for Implementing Performance-Based Option of 10 CFR Part 50, Appendix J</u>, Nuclear Energy Institute, NEI 94-01, July 1995. "</p>
6.2-61	6.2.8, COL Item 6.2(9)	<p>Editorial: Remove superfluous word from statement</p> <p>Replaced " by any applicant referencing the certified US-APWR design for construction and operation." with " by the COL applicant." in COL Item 6.2(9).</p>
6.2-63	6.2.9, Ref. 6.2-18	<p>Editorial: The submittal date of reference is updated as below.</p> <p>Changed "MUAP-07031, Rev. 0, Later." to "MUAP-07031-P, Rev. 0(Proprietary), and MUAP-07031-NP, Rev. 0(Non-Proprietary), February 2008."</p>
6.2-64	6.2.9, after 6.2-33	<p>Editorial:</p> <p>Insert the following information.</p> <p>6.2-34 <u>US-APWR Sump Strainer Performance</u>, MUAP-08001-P, Rev. 1(Proprietary), and MUAP-08001-NP, Rev. 1(Non-Proprietary), September 2008.</p>
6.2-68	Table 6.2.1-4, A. 2. Average Coolant Temperature	<p>Editorial</p> <p>Corrected value from "583.8" to "587.8"</p>
6.2-68	Table 6.2.1-4, A. 3. Mass of Reactor Coolant System Liquid	<p>Editorial:</p> <p>Corrected value from "9.18x10⁵" to "7.42x10⁵"</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-68	Table 6.2.1-4, C. 2. Accumulators water volume	Editorial: Corrected value from “1.26x10 ⁴ ” to “8.50x10 ³ ”
6.2-75,76	Table 6.2.1-9	Editorial: Clarify word Replaced “Paint ” with “Coating”.
6.2-94 to 116	Table 6.2.1-21	RAI Project No. 0751 – Question 14 Table contents replaced.
6.2-140	Table 6.2.1-32	RAI Project No. 0751 – Question 13 Added table.
6.2-141	Table 6.2.1-33	RAI Project No. 0751 – Question 13 Added table.
6.2-148, 152,154, and 156 to163	Table 6.2.2-2	Technical: Incorporate the Technical Report, “Sump Strainer Performance,” MUAP-08001 Replaced COLA information with reference to US-APWR Sump Strainer Performance document
6.2-144 6.2-145	Table 6.2.2-2 No.1.1.1.3 No.1.1.1.7 US-APWR Design	Technical: Incorporate the Technical Report, “Sump Strainer Performance,” MUAP-08001 Deleted “fin, or cassette-”.
6.2-144 6.2-147	Table 6.2.2-2 No.1.1.1.3 No.1.1.1.12 US-APWR Design	Technical: Incorporate the Technical Report, “Sump Strainer Performance,” MUAP-08001 Replaced “maximum debris “pass through” size 0.071 in” with “ 0.066 in hole diameter ”.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.2-144 6.2-161	Table 6.2.2-2 No.1.1.1.3 No.1.3.3.9 US-APWR Design	Technical: Incorporate the Technical Report, "Sump Strainer Performance," MUAP-08001 Replaced " 2,150 ft ² " with " 3,510 ft ² ".
6.2-146	Table 6.2.2-2 No.1.1.1.10 US-APWR Design	Editorial: Clarify scope of statement Replaced "for removal during" with " to allow ".
6.2-149	Table 6.2.2-2 No.1.1.2.3 US-APWR Design	Editorial: Change the statement correctly Replaced " excluding particulate-producing material (e.g., Min-K-based insulation) from containment." with " minimizing the use of aluminum.".
6.2-150	Table 6.2.2-2 No.1.1.5 US-APWR Design	Editorial: Clarify scope of statement Replaced "for removal during" with " to allow ".
6.2-157	Table 6.2.2-2 No.1.3.2.6 US-APWR Design	Editorial: Change the statement correctly Replaced " design considerations that exclude particulate producing material (e.g., Min-K-based insulation) from containment." with " minimizing the use of aluminum.".
6.2-170	Table 6.2.4-3 Pen NO. P236	Editorial: Change to correct valve operator Replaced "SIS-VLV-114" with "SIS-AOV-114". And replaced related description.
6.2-170, 171	Table 6.2.4-3 Pen NO. P210, P227, P258, P274	Editorial: Change to correct valve type Replace "Gate" with "Globe"
6.2-174	Table 6.2.4-3 Pen NO. P233, P235	Editorial: Change to correct valve operator Replaced "NCS-AOV-511" with "NCS-MOV-511", and replaced related description. Replaced "NCS-AOV-517" with "NCS-MOV-517", and replaced related description.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

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6.2-264. 265	Figure 6.2.2-1	Technical: Design progress Revised the figures including the followings. <ul style="list-style-type: none"> • Added Penetration Number • Added T.V valves on RWSP suction lines • Revised connecting locations from SFP line • Added T.V, T.C valves for containment isolation valve leak test • Changed reducer location in the spray lines • Added note 3, 4 and 5 (Sheet 1 of 2) • Added note 5 and 6 (Sheet 2 of 2) • Changed design pressure boundary on the spray line in CV
6.2-271	Figure 6.2.2-5	Editorial: Correct some typos Corrected some numeric values included in figure
6.2-284	Figure 6.2.4-1 (Sheet 9 of 50)	Editorial: Change to correct valve operator Replaced "SIS-VLV-114" with "SIS-AOV-114" and replaced valve symbol of "SIS-AOV-114" from manual valve to air operated valve.
6.2-285	Figure 6.2.4-1 (Sheet 10 of 50)	Editorial: Change to correct valve type Replaced valve symbol of "SIS-MOV-009A, B, C, D" from gate valve to globe valve with bellows seal.
6.2-296	Figure 6.2.4-1 (Sheet 21 of 50)	Editorial: Change to correct valve operator Replaced valve symbols and valve numbers of "NCS-AOV-511" and "NCS-AOV-517" with "NCS-MOV-511" and "NCS-MOV-517" from globe valve to gate valve.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-4	6.3.2.1.1, second paragraph, after eight sentence	<p>Editorial: Provide information about countermeasure of gas void</p> <p>Insert the following sentences:</p> <p>“Potential voids, caused by insufficient venting, may be formed in the SIS lines. Inservice testing required by Section 3.9.6.2 includes periodic testing through the full-flow test lines located at the high point of the SIS and discharge into the RWSP. See Figure 6.3-3. These tests periodically discharge potential voids, minimize unacceptable dynamic effects such as water hammer and ensure operability of the suction and injection lines.”</p>
6.3-11	6.3.2.2.6.11	<p>Editorial: Change to correct valve identifications</p> <p>Replaced "SIS-AOV-201A and D" with "SIS-AOV-201B and C"</p>
6.3-13	6.3.2.2.6.20	<p>Editorial: Change the statement correctly</p> <p>Replaced “locked closed manual” with “ normal closed air operated”</p> <p>and</p> <p>Insert “The valve is closed automatically on receipt of a containment phase “A” isolation signal.”</p> <p>and</p> <p>Replaced”SIS-VLV-114” with “SIS-AOV-114”</p>
6.3-13	After 6.3.2.2.6.22	<p>Editorial: Add the valve information</p> <p>Insert the following information.</p> <p>6.3.2.2.6.23 Safety Injection Pump Discharge Check Valve</p> <p>One swing check valve is aligned in each safety injection pump discharge line. The valve serves to prevent discharge line drain-down. The safety injection pump discharge check valves (SIS-VLV-004A, B, C and D) are Equipment Class 2, seismic category I.</p>
6.3-13	6.3.2.3	<p>Editorial: Change to correct chapter title</p> <p>Replaced “Instrumentation and Control Systems” with " Instrumentation and Controls".</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-14	6.3.2.5, first paragraph	<p>Editorial: Change the statement appropriately</p> <p>Revise second sentence as follows:</p> <p>Changed “Chapter 17, Section 17.1 discusses Quality Assurance (QA) during design. QA during construction and operation is the responsibility of COL applicant”</p> <p>to</p> <p>“Chapter 17, discusses Quality Assurance (QA) during design, construction and operation.”</p>
6.3-15	6.3.2.5, after sixth paragraph	<p>Editorial: Correct typographical error</p> <p>Delete the following duplicated text:</p> <p>Chapter 14 discusses the construction and pre-operational testing, as well as system and integrated tests performed prior to commencement of full power. Further, component and system reliability is enhanced by inservice pump and valve testing required by Chapter 16, “Technical Specifications.”</p>
6.3-15 6.3-26	6.3.2.5 seventh paragraph 6.3.5, COL Item 6.3(5)	<p>Editorial: Add detailed information in DCD, and delete COL Item</p> <p>Replaced “The COL Applicant is responsible for developing an inservice pump and valve test program for system and components.” with “Requirements for functional testing of ECCS valves and pumps are provided in Subsection 3.9.6. SI pump head is periodically verified as required by the Technical Specifications, SR 3.5.2.3, and SR 3.5.3.1. Implementation of inservice test programs is described in Subsection 13.4”.</p> <p>and</p> <p>Deleted COL Item 6.3(5).</p>
6.3-16	6.3.2.8, after third paragraph, last sentence	<p>Editorial: Correct typographical error</p> <p>Replaced “Such “hot leg” with “Such “hot leg injection” flow prevents excessive boric acid concentration in the reactor core during long-term cooling. Hot leg injection flow is established by closing any direct vessel safety injection line isolation valve and opening the associated hot leg injection isolation valve. The valves are manually operated remotely from the MCR.”</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-16	6.3.2.8, last paragraph	Editorial: Clarify scope of statement Replaced “Procedures suitable to observed events and desired outcomes are developed, reviewed , and approved by the COL applicant” with “ Station operating procedures for normal, abnormal, and emergency operation of the SI pumps, accumulators, and emergency letdown, including emergency operating instructions for feed-and-bleed operation are developed, reviewed, and approved by the COL applicant. These procedures and associated training include the emergency operating information to assess the necessity of initiation of cooling using feed-and-bleed operation.”.
6.3-17	6.3.3, A, ii, title	Editorial: Change the title correctly Delete “system”.
6.3-20	6.3.3, B, ii, fifth paragraph	Editorial: Change the referred table number correctly Replaced “Table 15.6.3-2” with “ Table 15.6.3-1 and 2”.
6.3-20	6.3.3, B, iii, title	Editorial: Change the title correctly Deleted “cluster control assembly (RCCA)”.
6.3-21	6.3.3, B, iii, first paragraph	Editorial: Change the texts of event correctly Replaced “RCCA” with “rod”.
6.3-21	6.3.3, B, iii, second paragraph	Editorial: Change Acronym to description because of first using in this chapter Replaced “an RCCA” with “a rod cluster control assembly (RCCA)”.
6.3-22	6.3.3.5, first paragraph	Editorial: Change referred subsection correctly Replaced “6.3.2.1.1” to “6.3.2.2.4”.
6.3-23	6.3.4.1, first paragraph	Editorial: Chang to correct section title Replaced "Initial Test Program" with "Section 14.2, “Initial Plant Test Program””.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-24 6.3-26	6.3.4.1, sixth paragraph 6.3.6, COL Item 6.3(1)	Editorial: Add detailed information in DCD, and delete COL Item Replaced “The COL Applicant provides the bases for ECCS surveillance requirements for ECCS performance such as motor operated valve and pump performance testing.” with “LCOs, surveillances, and surveillance bases for the ECCS pumps and valves are provided in Chapter 16, Technical Specification and Bases Section 3.5.” and Deleted COL Item 6.3(1)
6.3-24 6.3-26	6.3.4.1, last paragraph 6.3.6 COL Item 6.3(2)	Editorial: Add detailed information in DCD, and delete COL Item Replaced “ The COL Applicant prepares a suitable initial test program consistent with DCD Chapter 14 in accordance with RG 1.68 (Ref. 6.3-7) to ensure operational readiness.” with “The initial test program for the ECCS is described in Section 14.2 and includes requirements for construction, preoperational, and startup testing.” and Delete COL Item 6.3(2).
6.3-24	6.3.4.2, fifth paragraph	Editorial: Change referred section correctly Replaced “Section 7.3” with “Section 7.1”.
6.3-26	6.3.7, 6.3-4	Editorial: Change texts of reference correctly Delete "LTD.".
6.3-31	Table 6.3-2, No. A-43, column of US-APWR Design	Editorial: Reflect revision of Section 6.2.2 Replaced “Subsection 6.2.2.2.5” with “Subsection 6.2.2.3”
6.3-33	Table 6.3-3, No. 105, column of US-APWR Design	Editorial: Clarify scope of statement Insert “outside the containment” after “low head systems”.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-33	Table 6.3-3, No. 105, column of US-APWR Design	<p>Editorial: Add the information regarding the Residual Heat Removal (RHR) System</p> <p>Insert the following sentences:</p> <p>The Residual Heat Removal (RHR) System is a low pressure system that is connected to the RCS and located outside the containment. The RHR system is designed to prevent an interfacing system LOCA by having a design rating of 900 lb. The RHR 900 lb. design rated system can withstand the full RCS pressure. Two motor operated valves in series on the RHR suction line with power lockout capability during normal power operation minimize the probability of RCS pressure entering the RHR system. Even if both these valves are opened during normal power operation, the RHR system is designed to discharge the RCS inventory to the in-containment RWSP.</p>
6.3-33	Table 6.3-3, No. 122.2, column of US-APWR Design	<p>Editorial: Change to appropriate description</p> <p>Replaced “ Emergency operating instruction for feed-and-bleed operation is submitted by COL applicant.” with “ This issue is discussed in subsection 6.3.2.8.”.</p>
6.3-34	Table 6.3-3, No. 191, column of US-APWR Design	<p>Editorial: Reflect revision of Section 6.2.2</p> <p>Replaced “Subsection 6.2.2.2.5” with “Subsection 6.2.2.3”</p>
6.3-41,44,45 and 46	Table 6.3-4, No. GL 98-04, BL 93-02, BL 95-02 and BL 96-03, each column of US-APWR Design	<p>Editorial: Reflect revision of Section 6.2.2</p> <p>Replaced “Subsection 6.2.2.2.5” with “Subsection 6.2.2.3”</p>
6.3-47	Table 6.3-5,ECC/CS Strainer , column of Specification	<p>Technical: Incorporate the Technical Report, “Sump Strainer Performance,” MUAP-08001</p> <p>Replaced “ 2,150 ft² ” with “ 3,510 ft² ”.</p> <p>Replaced “ No large than 1/16 inch “ with “ 0.066 inch “.</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-62	Figure 6.3-2 (Sheet 1 of 4)	<p>Technical: Design progress</p> <p>Revised the figures including the followings.</p> <ul style="list-style-type: none"> • Added Penetration Number • Added T.C and T.V valves for containment isolation valve leak test • Added connections for pump washing • Added connections for temporary pressure gauge and note 4 • Added pump drain connections, reducers and flange on pump discharge • Changed CV isolation valve type from gate to globe with bellows seal • Added line spec in the pump test line • Changed valve type in the pump test line from gate to globe • Changed accumulator makeup line connections from train A to train B • Changed leak test line connections • Added line spec on the line to R/V • Changed note number from 7 to 6 • Changed note number from 8 to 7 • Added note 8 through 12

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-63	Figure 6.3-2 (Sheet 2 of 4)	<p>Technical: Design progress</p> <p>Revised the figures including the followings.</p> <ul style="list-style-type: none"> • Added Penetration Number • Added T.C and T.V valves for containment isolation valve leak test • Added connections for pump washing • Added connections for temporary pressure gauge and note 4 • Added pump drain connections, reducers and flange on pump discharge • Changed CV isolation valve type from gate to globe with bellows seal • Added line spec in the pump test line • Changed valve type in the pump test line from gate to globe • Changed accumulator makeup line connections from train D to train C • Changed leak test line connections • Added line spec on the line to R/V • Added note 8 through 12

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-64	Figure 6.3-2 (Sheet 3 of 4)	<p>Technical: Design progress</p> <p>Revised the figures including the followings.</p> <ul style="list-style-type: none"> • Added connections for temporary pressure gauge and note 5 • Added connections for temporary water level gauge and note 7 • Changed connections for N2 supply and discharge line • Added T.C and T.V valves for containment isolation valve leak test • Added Penetration Number • Changed containment isolation valve type from manual to air operated • Changed line size on safety valve relief line • Added note 8 • Added design parameters on spool piece • Added EC on accumulator makeup line and sampling line • Added design parameter on N2 discharge line downstream of MOV • Changed line size and line spec. on N2 supply line safety valve relief line
6.3-65	Figure 6.3-2 (Sheet 4 of 4)	<p>Technical: Design progress</p> <p>Revised the figures including the followings.</p> <ul style="list-style-type: none"> • Added connections for temporary pressure and water level gauge and note 1 and 2 • Added note 3 • Changed valve number on accumulator makeup line
6.3-66	Figure 6.3-3	<p>Editorial: provide information about countermeasure of gas void</p> <p>Add the SI pump test line information.</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.3-75	Figure 6.3-12	Technical: Design progress Revised the figure including the followings. <ul style="list-style-type: none"> • Added J-tube for vent on NaTB transfer piping and Note 4 • Revised pipe size and reducer size
6.4-2	6.4.2, Second paragraph	Delete “is present”. Change “Airborne radioactive materials is detected in the outside air intakes” to “High MCR outside air intake radiation”. Editorial: Change to the correct signal names that are consistent with Chapter 7.
6.4-2	6.4.2, Third paragraph	Change “during toxic gas event” to “from external toxic gas or smoke” Editorial: Change to the correct statement.
6.4-2	6.4.2, Third paragraph	Delete “Isolation mode is initiated automatically when toxic gas is detected in the outside air intakes.”. Editorial: The necessity of toxic gas protection is decided in COLA phase, and it is described in Subsection 6.4.4.2.
6.4-3	6.4.2.1, first paragraph	Change “Clerk’s office, Tagging room, Operator’s area” with “Conference room, Break room, Files room”. Editorial: Reflect the latest room name.
6.4-4	6.4.2.2, fifth paragraph.	Delete “This mode is automatically initiated by the detection of toxic material or smoke in the outside air intake.” Editorial: The necessity of toxic gas protection is decided in COL phase, and it is described in Subsection 6.4.4.2.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.4-4	6.4.2.2, eighth paragraph	Change “MCR HVAC system” to “MCR emergency filtration system”. Editorial: Change to appropriate name.
6.4-4	6.4.2.2, eighth paragraph.	Change “The COL Applicant is responsible to provide details of specific chemicals, their amounts, on site storage description, type of supply container (e.g., bottle, tank), and the type of connection (e.g., pipe, armored hose) to the system serviced; and the location of toxic gas releases and distance from the MCR and the MCR HVAC system intakes.” to “Locations of potential toxic gas releases are provided in subsection 6.4.4.2.”. Editorial: Change to appropriate statement. Toxic gas protection is addressed in subsection 6.4.4.2
6.4-5	6.4.2.2.1, Last paragraph	Add “The COL Applicant is responsible to determine the charcoal adsorber weight, type and distribution.” Editorial: Clarify the COL activity.
6.4-5	6.4.2.2.3, first bullet.	Change “These dampers close on the receipt of toxic gas signal.” to “These dampers are isolated in isolation mode.”. Change “These dampers are installed at the air intake duct of the MCR HVAC system.” to “The two dampers are in series for single failure considerations.”. Editorial: Change to appropriate statement.
6.4-6	6.4.2.2.3, second and third bullet.	Change “These dampers isolate on the receipt of toxic gas or MCR isolation signal.” with “These dampers are isolated in pressurization mode and isolation mode.”. Editorial: Change to appropriate statement.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.4-6	6.4.2.2.3, sixth paragraph	Delete "Additional isolation dampers of the MCR HVAC system are described in Chapter 9, subsection 9.4.1." Editorial: The description of additional damper is not so much in subsection 9.4.1. The movement of these dampers for each mode is only described.
6.4-6	6.4.2.3, first and second paragraph	Change "air exchange" to "makeup flow rate". Editorial: Change to appropriate statement.
6.4-7	6.4.3, second paragraph	Delete "surveillance". Editorial: Surveillance procedure is added in Chapter 16, "Technical Specification".
6.4-8	6.4.4.1, first paragraph	Add "The MCR HVAC system protects operators within the CRE against a postulated external release of radioactive material." Editorial: Add the function of HVAC system about radiological protection.
6.4-8	6.4.4.2, first paragraph	Add "The MCR HVAC system protects operators within the CRE against a postulated external release of toxic gases" Editorial: Add the function of HVAC system about toxic gas protection.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.4-8	6.4.4.2, first paragraph	<p>Change “A hazards analysis based on the recommendations of RG 1.78 (Ref. 6.4-4) is the responsibility of the COL Applicant.” to “The COL Applicant is responsible to provide details of specific toxic chemicals of mobile and stationary sources within the requirements of RG 1.78 (Ref. 6.4-4) and evaluate the control room habitability based on the recommendation of RG 1.78 (Ref. 6.4-4).” and moved to second paragraph in this subsection.</p> <p>Editorial: Clarify the statement of COL activity.</p>
6.4-8	6.4.4.2, first paragraph	<p>Change “The analysis” to “The control room habitability analysis”.</p> <p>Editorial: Clarify the name of analysis.</p>
6.4-8	6.4.5, last sentence	<p>Change “are responsibility of the COL Applicant, and are addressed in the plant Technical Specifications (Chapter 16)” to “are described in Chapter 16, “Technical Specifications”.</p> <p>Editorial: Reflect the revision of Ch.16 (TSTF-448 is reflected in Ch.16.)</p>
6.4-8	6.4.6, first sentence	<p>Delete “and toxic gas monitors”.</p> <p>Editorial: Toxic gas protection is decided in COL phase.</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
6.4-9	6.4.7, COL Item 6.4(1)	<p>Change <i>“The COL Applicant is responsible to provide details of specific chemicals, their amounts, on site storage description, type of supply container (e.g., bottle, tank), and the type of connection (e.g., pipe, armored hose) to the system serviced; and the location of toxic gas releases and distance from the MCR and the MCR HVAC system intakes”</i> to <i>“The COL Applicant is responsible to provide details of specific toxic chemicals of mobile and stationary sources within the requirements of RG 1.78 (Ref. 6.4-4) and evaluate the control room habitability based on the recommendation of RG 1.78 (Ref. 6.4-4).”</i></p> <p>Editorial: Change to appropriate statement.</p>
6.4-9	6.4.7, COL Item 6.4(2)	<p>Delete “surveillance”.</p> <p>Editorial: Surveillance procedure is added in Chapter 16, “Technical Specification”.</p>
6.4-9	6.4.7, COL Item 6.4(3)	<p>Delete COL Item 6.4(3)</p> <p>Editorial: Reflect the revision of Ch.16 (TSTF-448 is reflected in Ch.16.)</p>
6.4-9	6.4.7, COL Item 6.4(5)	<p>Change <i>“A hazards analysis based on the recommendations of RG 1.78 (Ref. 6.4-4) is the responsibility of the COL Applicant.”</i> to <i>“The number, locations, sensitivity, range, type, and design of the toxic gas detectors are COL items. Depending on proximity to nearby industrial, transportation, and military facilities, and the nature of the activities in the surrounding area, as well as specific chemicals onsite, the COL Applicant is responsible to specify the toxic gas detection requirements necessary to protect the CRE.”</i></p> <p>Editorial: Clarify the COL activity.</p>
6.4-12 to 6.4-16	Table 6.4-2, title	<p>Change “Emergency Control Room Envelope Ventilation” to “Main Control Room Emergency Filtration System”.</p> <p>Editorial: Change to correct system name.</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.4-14	Table 6.4-2, No. 4.0	<p>Integrate the rows “4.0a” and “4.0B” into “4.0”.</p> <p>Change the description in column of Regulatory Position Summary from Replaced “Components constructed and tested to Division II of ASME AG-1-1997, as modified and supplemented below:” to “Components designed, constructed and tested to Division II of ASME AG-1-1997, as modified and supplemented below:”.</p> <p>Add “Applicable to US-APWR design , including ASME AG 1-2003.” in column of US-APWR Design.</p> <p>Editorial: Change the description correctly.</p>
6.4-14	Table 6.4-2, No. 4.8a	<p>Change “COL” to “Applicable to US-APWR design, including ASME AG- 1-2003”</p> <p>Editorial: Change to correct statement.</p>
6.4-15	Table 6.4-2, No. 4.10, 4.10a	<p>Add “or Section FE for Type III cells”</p> <p>Editorial: Add the failing word.</p>
6.4-17	Table 6.4-3, Distance from Radiation Source to the Main Control Room	<p>Change “95 ft” with “100 ft”, “180 ft” with “83 ft” and “16 ft” with “18 ft”.</p> <p>Editorial: Change to correct information.</p>
6.4-18	Table 6.4-3, Isometric Drawing of Main Control Room	<p>Replaced “Figure 12.3-8” with “Figure 12.3-7”.</p> <p>Editorial: Reflect the revise of Ch.12.</p>
6.4-19	Figure 6.4-1,title	<p>Replaced the Figure.</p> <p>Editorial: Reflect the latest room name.</p> <p>Furthermore, this figure is changed as SRI.</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.4-20 to 6.4-22	Figure 6.4-2, 6.4-3, 6.4-4	Replaced the figure of operation mode. Editorial: Reflect the latest room name.
6.4-23	Figure 6.4-5	Replaced the title of figure from “Emergency Control Room Envelope Ventilation System” to “Main Control Room Emergency Filtration System”. Editorial: Change to correct system name. Furthermore, this figure is changed as SRI.
6.4-24	Figure 6.4-6	Replaced the title of figure from “Emergency Control Room Envelope Ventilation System” to “Main Control Room Emergency Filtration System”. Editorial: Change to correct system name. Furthermore, this figure is changed as SRI.
6.5-1	6.5.1, third paragraph	Change “rod cluster control assembly [RCCA] ejection accident” to “rod ejection accident”. Editorial: Change to correct accident name.
6.5-5	6.5.1.4, second paragraph	Change “RCCA ejection accident” to “rod ejection accident”. Editorial: Change to correct accident name.
6.5-7	6.5.2.2, first paragraph	Editorial: Change to correct section title Replace “Engineered Safety System-Materials” with “Engineered Safety Feature Materials”.
6.5-8	6.5.2.3.2	Editorial: Clarify scope of statement Replaced “the Powers model” with “NUREG/CR-6189 (Ref. 6.5-7)”
6.5-9	6.5.2.3.3	Editorial: Change the sentence correctly Replaced “spray” with “removal”.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.5-9	6.5.2.3.3	Editorial: Change the sentence correctly Added “and NUREG/CR-6189 (Ref. 6.5-7)”
6.5-9	6.5.2.3.3	Editorial: Add the detailed information Added the following sentences: “Credit for particulate iodine removal by the CSS and natural deposition is assumed not to be limited. No credit for organic iodine removal by the CSS or natural deposition is assumed.”
6.5-9 6.5-11	6.5.2.4, first paragraph 6.5.6, COL Item 6.5(2)	Editorial : Add detailed information in DCD, and delete COL Item Replaced “The COL Applicant is responsible for preparation and implementation of an initial test program and an inservice test program in accordance with ASME Code Section III for Class 2 and Class 3 systems and components.” with “The initial test program for the CSS includes requirements for construction, and preoperational testing. Preoperational test objectives, prerequisites, and test methodology for the CSS are included in Subsection 14.2.12.1.58. Requirements for functional testing of CSS valves and pumps are provided in Subsection 3.9.6. CSS pump head is periodically verified as required by the Technical Specifications, SR 3.6.6.2.” and Deleted COL Item 6.5(2)

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.5-9 6.5-10	6.5.2.4, second paragraph 6.5.6, COL Item 6.5(1)	Editorial: Add detailed information in DCD, and delete COL Item Replaced “Preserving access and inspectability for ASME Code Section III for Class 1 and Class 2 components is the responsibility of the COL Applicant.” with “The ISI program for the CSS is provided in Section 6.6. The physical arrangement of ASME Code Class 2 and 3 components is designed to allow personnel and equipment access to the extent practical to perform the required inservice examinations specified by the ASME Code Section XI. Additional accessibility requirements are specified in Subsection 6.6.2.” and Deleted COL Item 6.5(1)
6.5-9	6.5.2.4, last paragraph	Editorial: Change the sentence correctly Delete “flow”.
6.5-10 6.5-11	6.5.2.6 6.5.6, COL Item 6.5(3)	Editorial: Add detailed information in DCD, and delete COL Item Replaced “The COL Applicant is responsible to provide surveillance test procedures (Chapter 16) for the containment pH adjustment.” with “Technical Specification 3.5.5 provides the minimum amount of NaTB and surveillances to verify the amount, solubility, and buffering capacity of NaTB.” and Delete COL Item 6.5(3)
6.5-16	Table 6.5-3, No. 4.0	Integrate the rows “4.0a” and “4.0B” into “4.0”. Change the description in column of Regulatory Position Summary from Replaced “Components constructed and tested to Division II of ASME AG-1-1997, as modified and supplemented below:” to “Components designed, constructed and tested to Division II of ASME AG-1-1997, as modified and supplemented below:”. Add “Applicable to US-APWR design , including ASME AG 1-2003.” in column of US-APWR Design. Editorial: Change the description correctly.

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.5-16	Table 6.5-3, No. 4.8	Change "System normally isolated from A/B HVAC system. Heaters automatically energize to dry incoming air" to "N/A". Editorial: The annulus emergency exhaust filtration unit does not have drains.
6.5-17	Table 6.5-3, No. 4.10, 4.10a	Add "or Section FE for Type III cells" Editorial: Add the failing word.
6.5-20	Table 6.5-5	Editorial: Change title of first column, 6 th row correctly Changed "Time Dependent Parameters" to "Evaluation Parameters"
6.5-21	Figure 6.5-1	Replace the figure. Editorial: Change to the correct information.
6.6-1	6.6, second paragraph	Editorial: Clarify objects of ISI program and the COL Applicant's responsibility about preparation of program at first setout of the chapter Added "This section includes preservice and inservice examinations and system pressure tests. The COL Applicant is responsible for the preparation of a preservice inspection program (non-destructive baseline examination) and an Inservice inspection program for ASME Code Section III Class 2 and 3 systems, components (pumps and valves), piping, and supports."

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.6-1	6.6.1, second paragraph	<p>Editorial: Provide specific year & addenda criteria for ASME Sect. XI</p> <p>Replaced “The specific edition and addenda of the ASME Code used to determine the requirements for the inspection plan for the initial and subsequent inspection intervals is to be delineated in the Inservice Inspection and Testing program.” with “The initial inservice inspection program incorporates the latest edition and addenda of the ASME Boiler and Pressure Vessel Code approved in 10 CFR 50.55a(b) on the date 12 months before the initial fuel load. Inservice inspection of components and system pressure tests conducted during successive 120-month inspection intervals must comply with the requirements of the latest edition and addenda of the Code incorporated by reference in 10 CFR 50.55a(b) 12 months before the start of the 120-month inspection interval, subject to the limitations and modifications listed in 10 CFR 50.55a(b). In addition, the optional ASME Code cases listed in RG 1.147 may be used.”</p>
6.6-1	6.6.1, third paragraph	<p>Editorial: Reflect revision of Section 6.6 second paragraph</p> <p>Replaced “ The COL Applicant is responsible for preparing a preservice inspection program (non-destructive baseline examination) and an Inservice Inspection program for ASME Code Section III Class 2 and 3 systems, components (pumps and valves), and supports.” with “ The preservice inspection program (non-destructive baseline examination) includes the selection of areas subject to inspection, non-destructive examination method, and the extent of preservice inspection. The inservice inspection program provides the areas subject to inspection, non-destructive examination method and extent and frequency of inspection.”.</p>

US-APWR DCD Chapter 6 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
6.6-1,2	6.6.1, last paragraph	<p>Editorial: Add statement regarding relief requests</p> <p>Added "The specific areas where applicable Section XI Code requirements cannot be met are identified either in the ISI program submittal or after the baseline examinations are performed. Should relief requests be required, they are processed and submitted to the NRC for approval in accordance with 10 CFR 50.55a(a)(3) or 50.55a(g)(5). The relief requests will include appropriate justifications and proposed alternative inspection methods."</p>
6.6-3	6.6.3, second paragraph	<p>Editorial: Add detailed information regarding examination techniques</p> <p>Replaced " The COL Applicant is responsible for selecting specific examination techniques and preparing suitable inspection procedures." with " Ultrasonic techniques are generally employed where volumetric examination is required, and either liquid penetrant or magnetic particle techniques are employed where surface examination is required. Visual examinations are conducted in accordance with the requirements of Subarticle IWA-2210 of ASME Section XI."</p>
6.6-5	6.6.8	<p>Editorial: Eliminate general QA information not applicable to ISI section</p> <p>Deleted "The COL Applicants are required to have administrative programs that ensure plant design translates accurately into the construction phase."</p>

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7-x	TABLES	Editorial: Erratum correction Replaced table title of Table 7.3-5 “ESF Actuation System - System Level Manual Control” with “ESF Actuation System - Train Level Manual Control”.
7-x	TABLES	Editorial: Deleted COL 7.3(1) and incorporated the description in DCD Added Table 7.3-8 “Functional Allocation in SLS Controllers” in the list of TABLES.
7-xv	ACRONYMS AND ABBREVIATIONS	Editorial: Erratum correction <ul style="list-style-type: none"> ▪ Replaced “engineering” with “engineered” in IESFAS. ▪ Replaced “Electronic” with “Electronics” in IEEE. ▪ Replaced “inspection, test, analysis” with “inspections, tests, analyses” in ITAAC.
7-xvi	ACRONYMS AND ABBREVIATIONS	Editorial: Erratum correction <ul style="list-style-type: none"> ▪ Added “NEI” as “Nuclear Energy Institute.” ▪ Replaced “Comission” with “Commission” in NRC. ▪ Replaced “strage” with “storage” in RWSP.
7.1-1	7.1	Editorial: Erratum correction Replaced “Conventional switches (for system level manual actuation)” with “Conventional switches (for train level manual actuation)” in item B.
7.1-2	7.1, third paragraph	Editorial: Erratum correction Replaced “inconsistencies” with “inconsistencies” in the second sentence.
7.1-3	7.1.1.1, first paragraph	Editorial: Erratum correction Replaced “Conventional switches (system level)” with “Conventional switches (train level)” in the third item.
7.1-7	7.1.2 first paragraph	Editorial: Erratum correction Replaced “guidances” with “guidance.”
7.1-7	7.1.2, third paragraph	Editorial: Erratum correction Replaced “Institute of Electrical and Electronic Engineers” with “Institute of Electrical and Electronics Engineers” in the second sentence.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.1-8	7.1.3.3, first paragraph	Editorial: Erratum correction. Replaced “Subsection 7.1.3.9” with “Subsection 7.1.3.9” in third sentence.
7.1-9	7.1.3.6, first paragraph	Editorial: Erratum correction Replaced “non-safety systems using the the MELTAC platform” with “non-safety systems using the MELTAC platform” in the first sentence.
7.1-10	7.1.3.7 second paragraph	Editorial: Erratum correction Replaced “adequates” with “adequate” in the second sentence.
7.1-10	7.1.3.7, seventh paragraph	Editorial: Erratum correction Replaced “inspection, test, analysis and acceptance criteria” with “inspections, tests, analyses and acceptance criteria”.
7.1-12 to 7.1-13	7.1.3.11, fifth paragraph	Editorial: For clarification <ul style="list-style-type: none"> ▪ Added “testing or” before “maintenance” in the first sentence. ▪ Replaced “at the system level” with “at the train level” in the second sentence. ▪ Deleted two sentences after second sentence and added three sentences. ▪ Separated the last sentence into two sentences with some modification.
7.1-13	7.1.3.11	Editorial: For clarification Delete the one paragraph after the fifth paragraph.
7.1-15 to 7.1-16	7.1.5	Editorial: Added and replaced document information <ul style="list-style-type: none"> ▪ Added “Revision 1” in 7.1-2, 7.1-5. ▪ Added “Revision 2” and Replaced “July 2007” with “August 2008” in 7.1-3. ▪ Added “Revision 2” and Replaced “July 2007” with “June 2008” in 7.1-4. ▪ Added “Revision 1” and Replaced “January” with “August” in 7.1-16.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.1-18	Table 7.1-2 (Sheet 1 of 8)	Editorial: Erratum correction <ul style="list-style-type: none"> • Added “SLS” for 50.34(f)(2)(xi) [II.D.3] of item e. • Added “Safety HSI” for 50.34(f)(2)(xx) [II.G.1] of item k.
7.2-2	7.2.1.2, first paragraph	Editorial: For clarification Added “Section 3.9” for the reference of the CRDM in the last sentence.
7.2-4	7.2.1.4, first paragraph	Editorial: Erratum correction Replaced “System level manual controls” with “Train level manual controls” in the first sentence.
7.2-4	7.2.1.4.1.1, third paragraph	Editorial: Erratum correction Replaced “source” with “Source” in the first word of the first sentence.
7.2-6	7.2.1.4.2.2, first paragraph	Editorial: Erratum correction Replaced “Figure 7.2-2 sheet 3” with “Figure 7.2-2 sheet 4” in the last sentence.
7.2-18	7.2.5	Editorial: Added and replaced document information, and erratum correction. <ul style="list-style-type: none"> • Added “Revision 2” and Replaced “July 2007” with “August 2008” in 7.2-2. • Added “Revision 1” in 7.2-3. • Replaced “Reguatory” with “Regulatory” in 7.2-9.
7.2-22	Table 7.2-3 (sheet 2 of 2)	Editorial: Change of pressure measure <ul style="list-style-type: none"> • Replaced “1880 psia” with “1865 psig” in the “Setpoint” of “Low Pressurizer Pressure”. • Replaced “2400 psia” with “2385 psig” in the “Setpoint” of “High Pressurizer Pressure”.
7.2-24	Table 7.2-4 (sheet 2 of 3)	Editorial: Change of pressure measure Replaced “1930 psia” with “1915 psig” in the “Setpoint” of “P-11”.
7.2-24	Table 7.2-4	Editorial: Erratum correction Replaced "presssure" with "pressure" in the item (f) in the “Function” column of “P-11.”

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.2-29	Table 7.2-8 (Sheet 2 of 3)	Editorial: Erratum correction Replaced with “faild” with “failed” in the “Local Failure Effect” column of “RPS Processing part (in RPS).”
7.2-44	Figure 7.2-2 (Sheet 13)	Editorial: Erratum correction Deleted the “P-7” from interlock of “TURBINE BYPASS CONTROL” and “GENERATOR TRIP.”
7.2-47 to 7.2-52	Figure 7.2-2 (Sheet 16 to 21), NOTES	Editorial: For clarification of signal selector algorithm <ul style="list-style-type: none"> • Replaced “SECOND HIGHEST OR AVARAGE SIGNAL IS SELECTED” with “THE SECOND HIGHEST SIGNAL IS SELECTED” for 4ch signal selectors in Sheet 16, 18, 19, 20, and 21. • Replaced “SELECT THE HIGHEST OR AVERAGE SIGNAL” with “THE HIGHEST SIGNAL IS SELECTED” in Sheet 17. • Replaced “HIGHEST OR AVERAGE SIGNAL IS SELECTED” with “THE HIGHEST SIGNAL IS SELECTED” in Sheet 21. • For signal selector of T_{avg}, added the NOTE 5 “THE AVARAGE SIGNAL IS SELECTED” in Sheet 16.
7.3-1	7.3.1, fourth paragraph	Editorial: For clarification of description Replaced “The ESF system for US-APWR include” with “Control from the ESF system includes” in the first sentence.
7.3-5	7.3.1.2.4	Editorial: Deleted COL 7.3(1) and incorporated the description in DCD Added Subsection 7.3.1.2.4 “Functional Allocation in SLS Controllers.”
7.3-6	7.3.1.4, first paragraph	Editorial: Erratum correction Replaced “manual system level” with ”manual train level” in the sixth sentence.
7.3-9	7.3.1.5, third paragraph	Editorial: Erratum correction Replaced “Subsection 7.3.2.6.1” with “Subsection 7.3.1.6.3” in the last sentence.
7.3-16	7.3.1.7, first paragraph	Editorial: Erratum correction Replaced “Subsection 7.1.3.9” with “Subsection 7.1.3.11” in the last sentence.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

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7.3-18	7.3.2.3, first paragraph	Editorial: Erratum correction Replaced "Subsection 7.1.2.13" with "Subsection 7.1.3.4" in the first sentence.
7.3-19	7.3.4	Editorial: Deleted COL 7.3(1) and incorporated the description in DCD Deleted COL 7.3(1) and added the description of "No additional information is required to be provided by a COL applicant in connection with this section".
7.3-19 to 7.3-20	7.3.5	Editorial: Added and replaced document information <ul style="list-style-type: none"> • Added "Revision 2" and Replaced "July 2007" with "August 2008" in 7.3-1. • Added "Revision 1" in 7.3-2. • Added "Revision 2" and Replaced "July 2007" with "June 2008" in 7.3-3.
7.3-26	Table 7.3-4 (sheet 1 of 2)	Editorial: Change of pressure measure <ul style="list-style-type: none"> • Replaced "1780 psia" with "1765 psig" in the "Setpoint" of "(a) Low Pressurizer Pressure" of "ECCS Actuation". • Replaced "540 psia" with "525 psig" in the "Setpoint" of "(b) Low Main Steam Line Pressure" of "ECCS Actuation". • Replaced "21.5 psia" with "6.8 psig" in the "Setpoint" of "(c) High Containment Pressure" of "ECCS Actuation". • Replaced "48.7 psia" with "34.0 psig" in the "Setpoint" of "High-3 Containment Pressure" of "Containment Spray". • Replaced "540 psia" with "525 psig" in the "Setpoint" of "(a) Low Main Steam Line Pressure" of "Main Steam Line Isolation". • Replaced "37.4 psia" with "22.7 psig" in the "Setpoint" of "(c) High-High Containment Pressure" of "Main Steam Line Isolation". • Replaced "540 psia" with "525 psig" in the "Setpoint" of "(b) Low Main Steam Line Pressure" of "Emergency Feedwater Isolation".

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.3-28	Table 7.3-5	Editorial: Erratum correction Replaced table title of Table 7.3-5 “ESF Actuation System - System Level Manual Control” with “ESF Actuation System - Train Level Manual Control”.
7.3-34	Table 7.3-8	Editorial: Deleted COL 7.3(1) and incorporated the description in DCD Added Table 7.3-8 “Functional Allocation in SLS Controllers.”
7.3-39	Figure 7.3-5	Editorial: Erratum correction Replaced “Input Part (from” with “Input Part (from sensor).”
7.4-2	7.4.1.3, first paragraph	Editorial: For clarification of description Added “initiating circuit, logic, bypass, interlocks” in the last sentence.
7.4-4	7.4.1.6, first paragraph	Editorial: Erratum correction Replaced “formonitoring” with “for monitoring” in the first sentence.
7.4-4	7.4.1.6, second paragraph	Editorial: For clarification of COL item Added “The COL applicant is to provide a description of component controls and indications required for safe shutdown related to the ultimate heat sink (UHS).”.
7.4-9	7.4.4	Editorial: For clarification of COL item Replaced “COL applicant provides description of I&C required for UHS” with “The COL applicant is to provide a description of component controls and indications required for safe shutdown related to the UHS” in COL 7.4(1).
7.4-9	7.4.5	Editorial: Added and replaced document number <ul style="list-style-type: none"> • Added “Revision 1” in 7.4-6. • Replaced “Revision” with “Revision 1” in 7.4-7.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.4-10	Table 7.4-1 Sheet 1 of 3	<p>Editorial: For clarification of description and components</p> <ul style="list-style-type: none"> • Replaced “These valves are used in LOOP and Reactor Vessel venting is required” with “These valves could be used only if the venting becomes necessary” in the “Remarks” column of “Reactor Vessel (RV) Vent Valve.” • Replaced “SIPs Inlet Isolation Valve” with “SIPs Suction Isolation Valve” in the “Components” column. • Replaced “SIPs Outlet Isolation Valve” with “SIPs Discharge Containment Isolation Valve” in the “Components” column. • Replaced “Direct Vessel Injection Line Valve” with “Direct Vessel Safety Injection Line Valve” in the “Components” column. • Replaced “ACC Nitrogen Stop Valve” with “ACC Nitrogen Supply Isolation Valve” in the “Components” column. • Replaced “ACC outlet valve” with “ACC discharge valve” in the “Remarks” column of “ACC Nitrogen Supply Line Isolation Valve” and “ACC Nitrogen Discharge Valve.”

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>7.4-11</p>	<p>Table 7.4-1 Sheet 2 of 3</p>	<p>Editorial: For clarification of description and components</p> <ul style="list-style-type: none"> • Replaced “CS/RHR Cooler Outlet Flow Control Valve” with “CS/RHR Hx Outlet Flow Control Valve” in the “Components” column. • Replaced “CS/RHR Pumps Inlet RWSP Side Isolation Valve” with “CS/RHR Pumps RWSP Suction Isolation Valve” in the “Components” column. • Replaced “RHR Line Outlet Valve” with “RHR Flow Control Valve” in the “Components” column. • Replaced “RHR Line RWSP Return Line Valve” with “CS/RHR Pump Full-Flow Test Line Stop Valve” in the “Components” column. • Replaced “EFW Pump Outlet Valve” with “EFW Isolation Valve” in the “Components” column. • Replaced “EFW Pump (Turbine Driven) MS Line Steam Line Isolation Valve” with “T/D-EFW Pump MS Line Steam Line Isolation Valve” in the “Components” column. • Replaced “EFW Pump (Turbine Driven) Actuation Valve” with “T/D-EFW Pump Actuation Valve” in the “Components” column. • Added “Main Steam Relief Valve” in MSS. • Deleted “Automatic start in LOOP” from the “Remarks” column of “CS/RHR Hx CCW Outlet Valve.” • Added “ESW Pump Discharge Valve” in ESWS.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.4-12	Table 7.4-1 Sheet 3 of 3	Editorial: For clarification of description and components <ul style="list-style-type: none"> • Added “Automatic start in LOOP” in the “Remarks” column of “Class 1E Electrical Room Air Handling Unit & Damper.” • Added “Class 1E Electrical Room Return Air Fan”, “Non-Class 1E Electrical Room Return Air Fan” and “Non-Essential Chilled Water System Cooling Tower Fan” in HVAC. • Added “& Valves” in the “Components” columns of “Essential Chilled Water Pump”, “Non-Essential Chilled Water Pump” and “Non-Essential Chiller Condenser Water Pump.”
7.4-13	Table 7.4-2	Editorial Erratum correction <ul style="list-style-type: none"> • Replaced “Safe shutdown” with “Safe Shutdown” in the title row. • Replaced “No” with “Yes” in the “Normal Shutdown” column of “RCS”, “RHRS” “CFS”, “MSS”, “CCWS” and “ESWS.” • Replaced “Yes” with “No” in the “Normal Shutdown” column of “SIS”, “EFWS and “RWS.” • Replaced “2 per Tank” with “1 per Tank” in the “Number of Channels” column of “Accumulator Pressure” • Replaced “1 per Line” with “2 per Line” in the “Number of Channels” column of “Main Steam Line Pressure”
7.5-1	7.5.1, third paragraph	Editorial: Erratum correction Replaced “Subsection 7.9.1.6” with “Subsection 7.9.1.7” in the last sentence.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.5-2	7.5.1.1, fourth paragraph	<p>Editorial: Descriptions which refers to tables were moved to this section and description which refers to COL information was added for clarification.</p> <p>Added “IEEE Std 497-2002 (Reference 7.5-2) provides selecting and categorizing principles for PAM variables. Table 7.5-1 provides a summary of the selection criteria and source documents for each PAM variable type.</p> <p>Table 7.5-2 provides the US-APWR design attributes for each variable type.</p> <p>Table 7.5-3 provides a list of PAM variables, their ranges, monitored functions or systems, quality and variable type.</p> <p>The COL applicant is to provide a description of PAM variables related to the UHS, which are type D variables for monitoring the performance of UHS.”.</p>
7.5-2	7.5.1.1.1, first paragraph	<p>Editorial: Description was moved to previous section.</p> <p>Deleted “IEEE Std 497-2002 (Reference 7.5-2) provides selecting and categorizing principles for PAM variables. Table 7.5-1 provides a summary of the selection criteria and source documents for each PAM variable type” and insert this paragraph into Subsection 7.5.1.1.</p>
7.5-2	7.5.1.1.1, second paragraph	<p>Editorial: Description was moved to previous section and table numbers were clarified.</p> <ul style="list-style-type: none"> • Deleted “Table 7.5-2 provides the US-APWR design attributes for each variable type.”and insert this sentence into Subsection 7.5.1.1. • Replaced “in this table” with “in Tables 7.5-1 and 7.5-2.”.
7.5-3	7.5.1.1.1, second paragraph	<p>Editorial: Erratum correction</p> <p>Replaced “Subsection 7.5.1.1.3” with “Subsection 7.5.1.1.2” in the item (9).</p>
7.5-3	7.5.1.1.1, third paragraph	<p>Editorial: Description was moved to previous section.</p> <p>Deleted “Table 7.5-3 provides a list of PAM variables, their ranges, monitored functions or systems, quality and variable type” and insert this paragraph into Subsection 7.5.1.1.</p>
7.5.5	7.5.1.2.1 second paragraph	<p>Editorial: Erratum correction</p> <p>Replaced “Sstatus” with “status” in the first item.</p>

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.5-9	7.5.1.5, second paragraph	Editorial: Erratum correction Replaced “operational VDU” with “Operational VDU” in the second sentence.
7.5-10	7.5.1.6.2, third paragraph	Editorial: For clarification of COL information Added “The COL applicant is to provide a description of the site-specific EOF.”
7.5-10	7.5.1.6.1, fourth paragraph	Technical: Description was revised because TSC was moved from auxiliary building to access building. Replaced “auxiliary building” with “access building” in the first sentence because of plant layout design change.
7.5-10	7.5.1.6.1, fifth paragraph	Editorial: Consistency with Chapter 9 Replaced “charcoal filters” with “charcoal absorbers.”
7.5-13	7.5.4	Editorial: For clarification of COL 7.5(1), and added COL 7.5(2) in place of COL 18.1(2) <ul style="list-style-type: none"> ▪ Replaced “COL applicant provides description of I&C required for UHS” with “The COL applicant is to provide a description of PAM variables related to the UHS” in COL 7.5(1). ▪ Added COL 7.5(2) “The COL applicant is to provide a description of the site-specific EOF”.
7.5-13 to 7.5-14	7.5.5	Editorial: Added document information Added “Revision 1” in 7.5.-3, 7.5-5.
7.5-17	Table 7.5-3 (sheet 1 of 3)	Editorial: Consistency with the MHI response to NRC comment in the letter of UAP-HF-08037 Deleted Type A requirement from “SG Water Level (Wide Range)”, “Wide Range Neutron Flux” and “Core Exit Temperature”.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.5-18	Table 7.5-3 (Sheet 2 of 3)	Editorial: For clarification of description and deleted unnecessary item <ul style="list-style-type: none"> • Replaced “Emergency” with “Class 1E” in two locations in the “Variable” column of “Status of Standby Power and Other Energy Sources Important to Safety.” • Deleted “Instrument Air Pressure” from “Status of Standby Power and Other Energy Sources Important to Safety.” • Replaced “Plant Specific” with “0 to 9 kV ac” for “Class 1E ac Bus Voltage” and “0 to 150 V dc” for “Class 1E dc Bus Voltage”, in the “Range” column of “Status of Standby Power and Other Energy Sources Important to Safety.”
7.5-21	Table 7.5-5	Editorial: Erratum correction Replaced “Stem” with “Steam” in the “Alarm” column of “Radiological Consequences of a SG Tube Failure.”
7.5-21	Table 7.5-5	Editorial: Consistency of accident name with Chapter 15 Replaced “Control Rod Assembly Ejection Accidents” with “Rod Ejection Accident” of the forth “Accident”.
7.5-24	Figure 7.5-24	Technical: Layout was replaced because TSC was moved from auxiliary building to access building. Replaced with new layout figure of TSC.
7.6-1	7.6.1, forth paragraph	Editorial: Erratum correction Replaced “Subsection 7.1.3.11” with “Subsections 7.1.3.10 and 7.1.3.11”.
7.6-2	7.6.1.2 first paragraph	Editorial: Erratum correction Replaced “Simultaneou-open” with “Simultaneous-open” in the first and second items.
7.6-5	7.6.3 third paragraph	Editorial: Erratum correction Replaced “Chapter 6” with “Subsection 5.2.2” in the second item.
7.6-6	7.6.5	Editorial: Added document information Added “Revision 1” in 7.6-1, 7.6-4.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.7-1	7.7, first paragraph	Editorial: Erratum correction Replaced “relieves” with “relief” in the last sentence.
7.7-1	7.7, third paragraph	Editorial: Erratum correction Replaced “indertion” with “insertion” in the last sentence.
7.7-2	7.7.1.1.1, fifth paragraph	Editorial: Erratum corrections <ul style="list-style-type: none"> • Replaced “selecter” with “selector” in the second item. • Replaced “contorl” with “control” in the second item. • Replaced “maual” with “manual” in the second item. • Deleted the fourth duplicated description.
7.7-3	7.7.1.1.2, eighth paragraph	Editorial: Erratum correction Added “and” between “the over power” and “over temperature” in the first sentence.
7.7-9	7.7.1.1.9, eighth paragraph	Editorial: For clarification of signal selector algorithm Replaced “the higher or average” with “the higher” in the fourth sentence.
7.7-15	7.7.1.3, ninth paragraph	Editorial: Erratum correction Replaced “reacto” with “reactor” in the third sentence.
7.7-18	7.7.2	Editorial: For clarification Added the description of “The control systems include the necessary features for manual and automatic control of process variables within the prescribed normal operating limits.”
7.7.-22	7.7.3, fourth paragraph	Editorial: Erratum correction Replaced “deresurization” with “depressurization” in the second item.
7.7-23	7.7.5	Editorial: Added and replaced document information. <ul style="list-style-type: none"> • Added “Revision 1” in 7.7-1. • Added “Revision 2” and Replaced “July 2007” with “August 2008” in 7.7-2.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.7-24	Table 7.7-1	Editorial: Consistency of accident name with Chapter 15 <ul style="list-style-type: none"> • Replaced “Increase in main feedwater flow” with “Increase in feedwater flow as a result of feedwater system malfunctions” of Subsection 15.1.2. • Replaced “Inadvertent opening of a main steam relief or safety valve” with “Inadvertent opening of a steam generator relief or safety valve” of Subsection 15.1.4.
7.7-12	7.7.1.1.11.3, sixth paragraph	Editorial: Erratum correction Replaced “transferred” with “transferred” in the second sentence.
7.7-24	Table 7.7-1	Editorial: Erratum correction Replaced “eccs” with “ECCS” in the “Title” column of “15.5.1 15.5.2.”
7.8-1	7.8, third paragraph	Editorial: Erratum correction. Replaced “separate Class 1E I&C room” with “separate room” in the fourth sentence.
7.8-3	7.8.1.1.2 second paragraph	Editorial: For clarification of DHP alarm and indicator Added ” High main steam radiation (N16) and high-high steam generator water level are alarmed and indicated on DHP. Technical Report MUAP-07014 provides the specific information of alarms credited for D3 coping analysis” as the third and forth sentences.
7.8-3	7.8.1.1.4, third paragraph	Editorial: Consistency of description with Topical Report MUAP-07006 <ul style="list-style-type: none"> • Replaced “If the PSMS cannot be restored to operation, the operator can manually achieve and maintain hot standby using the DHP before any small leak can further degrade the RCS.” with “If the PSMS/PCMS cannot be restored to operation, the operator can manually achieve and maintain shutdown condition using the DHP and local controls before any small leak can further degrade the RCS.” • Added the description of “The controls available to achieve shutdown condition are described in Topical Report MUAP-07006 Section 8.3.”

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.8-7	7.8.2.6, title	Editorial: Erratum correction Replaced “Operational Bypass” with “Operating Bypass” in the title.
7.8-7	7.8.2.6, first paragraph	Editorial: Erratum correction Replaced “Operational bypass” with “Operating bypass” in the fifth sentence.
7.8-9	7.8.5	Editorial: Added and replaced document information <ul style="list-style-type: none"> • Added “Revision 2” and replaced “July 2007” with “June 2008” in 7.8-1. • Added “(Proprietary) and MUAP-07014-NP (Non-Proprietary) Revision 1” and replaced “December 2007” with “June 2008” in 7.8-2. • Added “Revision 1” in 7.8-3. • Added “Revision 2” and Replaced “July 2007” with “August 2008” in 7.8-4.
7.8-13	Table 7.8-5	Editorial: For clarification Replaced “Automatic” with “Automatic/Manual(MCR)” in “Actuation Type” of all rows.
7.8-14	Table 7.8-6	Editorial: Change of pressure measure. <ul style="list-style-type: none"> • Replaced “1840 psia” with “1825 psig” in the “Setpoint” of “Low Pressurizer Pressure”. • Replaced “2240 psia” with “2425 psig” in the “Setpoint” of “High Pressurizer Pressure”.
7.9-8	7.9.2.6, second paragraph	Editorial: Erratum correction and added reference document <ul style="list-style-type: none"> • Replaced “NEI” with “Nuclear Energy Institute (NEI)”. • Added “(Reference 7.9-11)” for “NEI 04-04”.
7.9-8	7.9.2.6, first, third and forth paragraphs	Editorial: Deleted COL 7.9(1) and incorporated the description in DCD Added the first, third and forth paragraphs.

US-APWR DCD Chapter 7 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
7.9-10	7.9.4	<p>Editorial: Deleted COL 7.9(1) and incorporated the description in DCD</p> <p>Deleted COL 7.9(1) and added the description of “No additional information is required to be provided by a COL applicant in connection with this section”.</p>
7.9-10 to 7.9-11	7.9.5	<p>Editorial: Added and replaced document information, and added reference documents</p> <ul style="list-style-type: none"> ▪ Added “Revision 2” and Replaced “July 2007” with “August 2008” in 7.9-1. ▪ Added “Revision 1” in 7.9-2. ▪ Replaced “Software Program Manual for the US-APWR” with “Software Program Manual” in 7.9-4. ▪ Added “Revision 2” and replaced “July 2007” with “June 2008” in 7.9-8. ▪ Added 7.9-11 “<u>Cyber Security Program for Power Reactors</u>, NEI 04-04 Revision 1, November 2005.” ▪ Added 7.9-12 “<u>US-APWR Cyber Security Program</u>, MUAP-08003-P (Proprietary), August 2008.” ▪ Added 7.9-13 “<u>Criteria for Digital Computers in Safety Systems of Nuclear Power Plants</u>, Regulatory Guide 1.152 Revision 2, January 2006.” ▪ Added 7.9-14 “<u>Guidance on Software Reviews for Digital Computer-Based Instrumentation and Control Systems</u>, BTP 7-14 Revision 5, March 2007.”

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8-iii	TABLES	Add: Table 8.3.1-10 Editorial: Provide consistency with table.
8-iv	FIGURES	Add: Figure 8.3.1-5 Editorial: Provide consistency with figure.
8.1-1	8.1.1 4th paragraph	Add: "The one line diagram contained site-specific information in Section 8.2 is to be provided by the Combined License (COL) applicant." after the sentence. Editorial: Clarify COL information in description.
8.1-2	8.1.2.1 2nd sentence	Replace: "The Combined License (COL) Application addresses those items." with "Those items are discussed in Section 8.2." Editorial: Clarify section of COL information.
8.1-5	8.1.4 3rd sentence	Add: Table 8.3.1-10. Editorial: Clarify additional table.
8.1-5	8.1.5.1 1st paragraph	Add: "These site-specific items are discussed in Section 8.2." after 2nd sentence. Delete: "For the components and systems that are not part of the reference plant design, conformance to these design bases will be assured by the COL Applicant/Licensee." Editorial: Clarify section of COL information.
8.1-12	19th Clause	Add: IEEE Std 980-1994, "IEEE Guide for Containment and Control of Oil Spills in Substations" Editorial: Add necessary standard
8.1-12	20th Clause	Add: IEEE Std 998-1996, "IEEE Guide for Direct Lightning Stroke Shielding of Substations" Editorial: Add necessary standard
8.1-14	2nd Clause	Add: IEEE Std C37.06-2000 "American National Standard AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis- Preferred Ratings and Related Required Capabilities" Editorial: Add necessary standard
8.1-15	9th Clause	Add: IEEE Std C37.91-2000, "IEEE Guide for Protective Relay Applications to Power Transformers" Editorial: Add necessary standard

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.1-15	17th Clause	Add: IEEE Std C57.13-1993, "IEEE Standard Requirements for Instrument Transformers" Editorial: Add necessary standard
8.1-16	5th Clause	Change: "ICEA P-54-440-1986, Ampacities of Cables on Open-Top Cable Trays" to "ICEA P-54-440/NEMA WC-51, 2003, Ampacities of Cables Installed in Cable Trays" Editorial: Change to latest version
8.1-17	Table 8.1-1, 1.C.	Change: GDC5 to "Not applicable" Editorial: Correct condition of US-APWR design
8.1-18	Table 8.1-1, 2.a.i	Add: "A" in 8.2 Editorial: Correct missing mark
8.1-20	Table 8.1-1, 3.k.	Add: "Included one exception" in RG1.128 Editorial: Clarify US-APWR design condition
8.1-24	Figure 8.1-1	Change: high side of station service transformers N1 and N2, "6.9kV" to "13.8kV" Editorial: Correct specification
8.2-1	8.2.1.1 last sentence	Replace: "COL applicant will implement the transmission system interfaces for the US-APWR." with "The COL applicant is to implement the transmission system interfaces for the US-APWR." Editorial: Change to appropriate description
8.2-1	8.2.1.2 1st paragraph	Add: "The COL applicant is to assure at least two electrically isolated and physically independent power circuits as normal and alternate preferred power sources." after last sentence. Editorial: Clarify COL information

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.2-2	8.2.1.2 4th paragraph	<p>Change: “For all these MV buses, if power is lost from one source, it is automatically transferred to the other source” with “For all these MV buses, if power is lost from one source, the buses are automatically transferred to the other source by fast or slow transfer scheme.”</p> <p>Add: “At that time, if bus voltage is adequate, fast transfer is initiated. If this is not the case, slow transfer is initiated. Detail explanation of bus transfer scheme is described in Subsection 8.3.1.1.2.4.” after above sentence.</p> <p>RAI 08.02-4</p>
8.2-4	8.2.1.2 13th Paragraph	<p>Delete: “Synchronization capability across the main circuit breaker on the high-side of the MT is also provided”</p> <p>Editorial: Delete unnecessary description</p>
8.2-4	8.2.1.2 14th paragraph	<p>Remove: “High voltage circuit breakers are sized and designed in accordance with IEEE Std C37.010 and C37.06 (Reference 8.2-14, 8.2-15). High voltage disconnecting switches are sized and designed in accordance with IEEE Std C37.32 (Reference 8.2-16).” from Subsection 8.2.3.</p> <p>Editorial: Remove description to appropriate subsection</p>
8.2-4	8.2.1.2 15th paragraph	<p>Replace: “The UATs and RATs are provided with differential and over-current protection schemes. The MT is provided with a differential current protection scheme.” with “The MTs, UATs and RATs have differential, over-current, sudden pressure and ground over-current protection schemes per IEEE Std 666 (Reference 8.2-9). COL Applicant is to provide site-specific protection scheme.”</p> <p>RAI 08.02-07 and</p> <p>Editorial: Clarify COL Information</p>
8.2-4	8.2.1.2 18th paragraph	<p>Replace: “Three-hour rated fire barriers are provided between the MT, UATs and RATs.” With “Three-hour rated fire barriers are provided between the RAT and area of MT and UATs.”</p> <p>Editorial: Correct appropriate description</p>

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.2-4	8.2.1.2 18th paragraph	Remove: "All of these transformers are provided with containment for collection of transformer oil in case of tank leakage or rupture." from Subsection 8.2.3. Editorial: Remove description to appropriate subsection
8.2-4	8.2.1.2 last paragraph	Remove: "Cables associated with the normal preferred, alternate preferred and onsite power system circuits are physically separated from each other to minimize common mode failure. These circuits may share a common underground duct bank." from Subsection 8.2.3. Editorial: Remove description to appropriate subsection
8.2-4	8.2.1.2.1 1st paragraph	Replace: "The COL Applicant will provide at least two physically independent power circuits between the offsite grid systems and the plant's high voltage switchyard. The design of the interface is provided by the COL Applicants. " with " The COL applicant is to provide at least two physically independent power circuits between the offsite grid systems and the plant's high voltage switchyard. The design of the interface is to be provided by the COL applicant." Editorial: Change to appropriate description
8.2-5	8.2.1.2.1 last paragraph	Add: "The COL applicant is to provide protection relaying of offsite power circuits." after the sentence. Editorial: Clarify COL Information
8.2-5	8.2.2.1, 1st Clause	Replace: "The effects of natural phenomena are considered in designing the offsite power system, but it not specifically designed to withstand earthquakes, tornadoes or floods." with "The effects of natural phenomena are considered in designing the offsite power system to withstand without loss of capability to perform their intended functions within the conditions as provided in Chapter 2 such as high and low atmospheric temperatures, high wind, rain, ice and snow, but it not specifically designed to withstand earthquakes, tornadoes or floods. Lightning protection of the offsite power system is described in conformance with RG 1.204 (Reference 8.3.1-16)." RAI 08.02-8
8.2-8	8.2.2.1 13th Clause	Add: Conformance with SRP 8.2 Appendix A RAI 08.02-6

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.2-8	8.2.3 1st paragraph	Delete: "These design requirement are as follows:" Editorial: Delete unnecessary description
8.2-8	8.2.3 2nd paragraph	Add: "The COL applicant is to provide failure modes and effects analysis (FMEA) of offsite power system for conformance with following requirements." after 1st paragraph Editorial: Clarify COL Information
8.2-9	8.2.3 3rd paragraph	Add: interface requirement related Chapter 15. RAI 08.02-1, 2 and 3
8.2-9	8.2.3 4th paragraph	Replace: "Transmission system reliability and stability is consistent with the probability risk analysis of Chapter 19 (see Subsection 8.2.4). " with "Transmission system reliability is consistent with the condition of the probability risk analysis of Chapter 19. The COL applicant is to confirm transmission system reliability." Editorial: Change to appropriate description
8.2-9	8.2.3	Delete: " The MT, UATs, and RATs meet the requirements of the IEEE std C57.12.00 (Reference 8.2-1)." Delete: "Provisions are made to isolate a failed UAT or RAT without affecting the availability of the remaining transformers." Delete: A station ground grid is provided consisting of a ground mat below grade at the switchyard that is connected to the foundation embedded loop grounding system provided for the entire power block and associated buildings." Editorial: Delete unnecessary description

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.2-9	8.2.3	<p>Remove: "High voltage circuit breakers are sized and designed in accordance with IEEE Std C37.010 and C37.06 (Reference 8.2-14, 8.2-15). High voltage disconnecting switches are sized and designed in accordance with IEEE Std C37.32 (Reference 8.2-16)." to Subsection 8.2.1.2.</p> <p>Remove: "All of these transformers are provided with containment for collection of transformer oil in case of tank leakage or rupture." to Subsection 8.2.1.2.</p> <p>Remove: "Cables associated with the normal preferred, alternate preferred and onsite power system circuits are physically separated from each other to minimize common mode failure. These circuits may share a common underground duct bank." to Subsection 8.2.1.2.</p> <p>Editorial: Remove description to appropriate subsection</p>
8.2-9	8.2.4	<p>Change: Each item description</p> <p>Editorial: Clarify COL information</p>
8.2-9	8.2.4 COL 8.2(2)	<p>Delete: COL 8.2(2)</p> <p>Editorial: This item was integrated with COL 8.2(1).</p>
8.2-9	8.2.4 COL 8.2(6)	<p>Delete: COL 8.2(6)</p> <p>Editorial: This item is not site-specific.</p>
8.2-10	8.2.4 COL8.2(12)	<p>Delete: COL 8.2(12)</p> <p>Editorial: This item is was included in other COL Items.</p>
8.2-12	Figure 8.2-1	<p>Replace: "Bus Ducts" with "Bus Ducts/Cable Buses"</p> <p>Editorial: Change to appropriate words.</p>
8.3-6	8.3.1.1.2.2 2nd paragraph	<p>Change: "1.2.1.11" to "1.2.1.2.11"</p> <p>Editorial: Correct reference subsection</p>
8.3-6	8.3.1.1.2.2 3rd paragraph Last sentence	<p>Change: "9.4.3" to "9.4.5"</p> <p>Editorial: Correct reference subsection</p>
8.3-8	8.3.1.1.2.4, A 1st paragraph 2nd clause	<p>Replace: "Class 1E 6.9kV bus overcurrent relay have not operated." with "Class 1E 6.9kV bus protection relay has not operated."</p> <p>Editorial: Change to appropriate description</p>

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-8	8.3.1.1.2.4, A 2nd paragraph 3rd clause	Replace: "Close the incoming circuit breaker from the UAT after 1 second, if incoming circuit breaker from RAT is open and the 6.9kV bus overcurrent relay did not operate." with "Close the incoming circuit breaker from the UAT after 1 second, if incoming circuit breaker from RAT is open and the 6.9kV bus protection relay has not operated." Editorial: Change to appropriate description
8.3-9	8.3.1.1.2.4, B 1st paragraph 3rd clause	Replace: "Incoming circuit breaker from the UAT is closed after 1 second, if incoming circuit breaker from RAT is open and the 6.9kV bus overcurrent relay did not operate." with "Incoming circuit breaker from the UAT is closed after 1 second, if incoming circuit breaker from RAT is open and the 6.9kV bus protection relay has not operated." Editorial: Change to appropriate description
8.3-10	8.3.1.1.2.4, C last sentence	Replace: "The Class 1E GTGs will be stopped manually." with "The Class 1E GTGs are stopped manually." Editorial: Change to appropriate description
8.3-10	8.3.1.1.2.4, D 1st paragraph 3rd clause	Replace: "Class 1E 6.9kV bus overcurrent relay did not operate." with "Class 1E 6.9kV bus protection relay has not operated." Editorial: Change to appropriate description
8.3-13	8.3.1.1.2.5 Degraded voltage protection 2nd paragraph	Add: "The degraded voltage relays are set to provide a Class 1E load terminal voltage of greater or equal 90% of load rated voltage." after last sentence. Editorial: Add appropriate description
8.3-14	8.3.1.1.2.5	Add: Description of differential protection. Editorial: Add appropriate description
8.3-15	8.3.1.1.3 1st sentence	Replace: "GTG will be used as Class 1E standby power sources for the US-APWR." with "GTG is used as Class 1E standby power sources for the US-APWR." Editorial: Change to appropriate description

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-20	8.3.1.1.3.6 3rd paragraph	Replace: "Those loads that are not needed by the ECCS are shed by the ECCS actuation signal." with "The loads that are not needed by the ECCS except MCC loads are shed by the ECCS actuation signal." Editorial: Change to appropriate description
8.3-20	8.3.1.1.3.6 4th paragraph	Replace: "If a LOOP occurs during ECCS load sequencing or after ECCS load sequencing is completed, the ECCS load sequencing will be reset and all motor loads will be shed by the undervoltage signal. " with "If a LOOP occurs during ECCS load sequencing or after ECCS load sequencing is completed, the ECCS load sequencing is reset and all motor loads are shed by the undervoltage signal." Editorial: Change to appropriate description
8.3-21	8.3.1.1.3.7	Change: "8.3.1.1.3.4" to "8.3.1.1.3.3" Editorial: Correct reference subsection
8.3-21	8.3.1.1.3.8, 4	Replace: "The test procedures shall include a final equipment check prior to starting the tests." with "The test procedures include a final equipment check prior to starting the tests." Editorial: Change to appropriate description
8.3-21	8.3.1.1.3.8, 4.a	Replace: "Demonstrate that on loss of offsite power the Class 1E buses have been de-energized and that the loads have been shed from the Class 1E buses in accordance with design requirements." with "Demonstrate that on loss of offsite power the Class 1E buses are de-energized and that the loads are shed from the Class 1E buses in accordance with design requirements." Editorial: Change to appropriate description
8.3-22	8.3.1.1.3.8, 4 c and d	Replace: "safety features" with ""engineered safety features" Editorial: Change to appropriate words
8.3-24 and 25	8.3.1.1.5 2nd paragraph	Add: additional information related to MOV list Technical: Add necessary information

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-26	8.3.1.1.8 4th paragraph 2nd Clause	Change: location of Class 1E battery and battery charger, "R/B" to "PS/B" Technical: Due to changing arrangement
8.3-29	8.3.1.1.9 Interrupting capacities	Add: "Short circuit analysis is to be provided by the COL applicant." after last sentence. Editorial: Clarify COL information
8.3-29 and 30	8.3.1.1.9 Class 1E cables	Add: Description of Cable conductor size selection and cable fill. Technical: Add necessary information
8.3-32	8.3.1.1.14	Add: new subsection "Control Circuit and Power" Technical: Add necessary information
8.3-33	8.3.1.2.1 3rd clause	Replace: "US-APWR is a one unit plant with no common safety-related electric power system and therefore, this GDC is not applicable to US-APWR." with "US-APWR is a single unit plant with no common safety-related electric power system and therefore, this GDC is not applicable to US-APWR." Editorial: Change to appropriate description
8.3-35	8.3.1.2.2 3rd clause	Replace: "This regulatory guide endorses IEEE Std 308 (Reference 8.2-4) with an exception that pertains to sharing of ac power systems at multi-unit nuclear power plants." with "This regulatory guide endorses IEEE Std 308 (Reference 8.2-4) with an exception that pertains to sharing of dc power systems at multi-unit nuclear power plants." Editorial: Change to appropriate description
8.3-40	8.3.2.1.1 3rd paragraph	Add: "Short circuit rating is to be confirmed by the COL applicant." after last sentence. Editorial: Clarify COL Information
8.3-41	8.3.2.1.1 Class 1E Batteries 1st Paragraph	Replace: "The I&C power supply system inverters are designed to supply 120V ac power with dc input less than 140V and more than 108V." with "The I&C power supply system inverters are designed to supply 120V ac power with dc power less than 140V and more than 108V at the batteries terminal." RAI 08.03.02-9

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-41	8.3.2.1.1 Class 1E Batteries 2nd Paragraph	Change: Location of Class 1E battery, "R/B" to "PS/B" Technical: Due to changing arrangement
8.3-41	8.3.2.1.1 Class 1E Battery Chargers 1st Paragraph	Change: Location of Class 1E battery charger, "Class 1E Battery Charger and UPS room in the R/B" to "Class 1E Battery Charger Room located in the PS/B" Change: Location of spare battery charger, "Class 1E Battery Charger and UPS rooms of the PS/B" to "Spare Battery Charger Rooms" Technical: Due to changing arrangement
8.3-42	8.3.2.1.1 Class 1E DC Distribution System Equipment 1st Paragraph	Change: Location of distribution switchboard, "Class 1E Battery Charger and UPS room of the R/B" to "Class 1E Battery Charger Room of the PS/B" Technical: Due to changing arrangement
8.3-43	8.3.2.1.2 1st paragraph 2nd sentence	Change: "Figure 8.3.2-2" to "Figure 8.3.2-1" Editorial: Correct figure number
8.3-44	8.3.2.1.2 4th paragraph	Add: "Short circuit rating is to be confirmed by the COL applicant." after last sentence. Editorial: Clarify COL Information
8.3-45	8.3.2.1.2 Non-Class 1E Battery Chargers 2nd paragraph 1st sentence	Change: "a fully" with "95%" RAI 08.03.02-3
8.3-45	8.3.2.1.2 Non-Class 1E DC Distribution System Equipment 3rd sentence	Change: "Figure 8.3.2-2" to "Figure 8.3.2-1" Editorial: Correct figure number
8.3-46	8.3.2.2.1 2nd clause	Change: Room name, "Class 1E Battery Charger and UPS room" to "Class 1E Battery Charger Room" Editorial: Change to appropriate description

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-47	8.3.2.2.1 3rd Clause	Replace: "US-APWR is a one unit plant with no shared safety systems and therefore, this GDC is not applicable to US-APWR." with "US-APWR is a single unit plant with no shared safety systems and therefore, this GDC is not applicable to US-APWR." Editorial: Change to appropriate description
8.3-50	8.3.2.2.2 10th clause	Replace: "The US-APWR Class 1E batteries conform to the requirements of the IEEE Std 484 (Reference 8.3.2-3), including the stipulations of regulatory positions C.1 through C.10 of RG 1.128." with "The US-APWR Class 1E batteries conform to the requirements of the IEEE Std 484 (Reference 8.3.2-3), including the stipulations of regulatory positions C.1 through C.10 of RG 1.128 with one exception about regulatory position C.10 (f)." Editorial: Change to appropriate description
8.3-52	8.3.2.2.2 10th clause, (f)	Add: "This concentration conforms with RG 1.189 (Reference 8.3.2-10)." after the sentence Editorial: Add appropriate description
8.3-54	8.3.4	Change: numbering for COL Information, "8.3.X(X)" to "8.3(X)" Change: Passive construction to active construction Editorial: Change to appropriate number and description
8.3-54	8.3.4 COL 8.3(3)	Change: "Short Circuit analysis is provided by the COL applicant, since the system contribution is site specific." to "The COL applicant is to provide short circuit analysis for ac power system, since the system contribution is site specific." Editorial: Change to appropriate description
8.3-54	8.3.4 COL 8.3(4), (5), (6), (7) and (9)	Delete: COL Items Editorial: These information are contained in DCD.
8.3-54	8.3.4 COL 8.3(8)	Change: "Short circuit analysis is provided by the COL applicant." to "The COL applicant is to provide short circuit analysis for dc power system." Editorial: Change to appropriate description
8.3-56	8.3.1-30, 31 and 32	Add: Reference 8.3.1-30, 31 and 32 Editorial: Add necessary standards

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-58	Table 8.3.1-1 1st item	Replace: "Four single phase units" with "Three single phase units (Besides one spare)" Editorial: Change to appropriate description
8.3-59	Table 8.3.1-1 Item 7	Add: "N1 & N2" on the right side of switchgear. Editorial: Add missing word
8.3-62	Table 8.3.1-3 (Sheet 1 of 3)	Change: Number of quantity installed of Auxiliary Building Exhaust Fan, "2" to "3". And 466kVA is added on N4 bus. Change: Rated output of Emergency Feed Water Pump, "450kW" to "590kW". Change: Connection of Charging pump, "C Bus" to "D Bus". Change: Quantity operating of Blowdown Pump, "1" to "1*". And 473kVA is added on N5 bus. Change: Total bus capacity of N4 bus; "18058kVA" to "18524kVA", C bus; "4672kVA" to "3653kVA", D bus; "3653kVA" to "4672kVA", "N5 bus; "14495kVA" to "14968kVA". Change: Transformer capacity of UAT3(RAT3); "43569kVA" to "44035kVA", UAT4(RAT4); "44925kVA" to "45398kVA". Editorial: Change to appropriate information

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-63	Table 8.3.1-3 (Sheet 2 of 3)	<p>Change: Number of input of Turbine component cooling water pump, “465kW, 290kVAR and 548kVA” to “592kW, 368kVAR and 697kVA”.</p> <p>Change: Number of quantity installed of Auxiliary Building Exhaust Fan, “2” to “3”. And 466kVA is added on N4 bus.</p> <p>Change: Rated output of Emergency Feed Water Pump, “450kW” to “590kW”.</p> <p>Change: Quantity operating of Blowdown Pump, “1” to “1*”. And 473kVA is added on N5 bus.</p> <p>Change: Connection of P2 station service transformer, “P1 bus” to “P2 bus”.</p> <p>Change: Total bus capacity of N3 bus; “12990kVA” to “13139kVA”, “N4 bus; “18058kVA” to “18524kVA”, P1 bus; “5738kVA” to “4047kVA”, “N5 bus; “14495kVA” to “14968kVA”, P2 bus; “2058kVA” to “4047kVA”.</p> <p>Change: Transformer capacity of UAT3(RAT3); “45111kVA” to “44035kVA”, UAT4(RAT4); “42936kVA” to “45398kVA”.</p> <p>Editorial: Change to appropriate information</p>

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-64	Table 8.3.1-3 (Sheet 3 of 3)	<p>Change: Number of quantity operating of Circulating Water Pump, "3*" to "8".</p> <p>Change: Number of input of Turbine component cooling water pump, "465kW, 290kVAR and 548kVA" to "592kW, 368kVAR and 697kVA".</p> <p>Change: Number of quantity installed of Auxiliary Building Exhaust Fan, "2" to "3". And 466kVA is added on N4 bus.</p> <p>Change: Rated output of Emergency Feed Water Pump, "450kW" to "590kW".</p> <p>Change: Connection of Emergency Feedwater Pump, "A bus" to "B bus".</p> <p>Change: Quantity operating of Blowdown Pump, "1" to "1*". And 473kVA is added on N5 bus.</p> <p>Change: Total bus capacity of N3 bus; "12368kVA" to "12517kVA", "N4 bus; "17436kVA" to "17902kVA", P1 bus; "2947kVA" to "3096kVA", "N5 bus; "14495kVA" to "14968kVA", P2 bus; "2947kVA" to "3096kVA".</p> <p>Change: Transformer capacity of UAT3(RAT3); "43848kVA" to "44612kVA", UAT4(RAT4); "45975kVA" to "46597kVA".</p> <p>Editorial: Change to appropriate information</p>
8.3-66	Table 8.3.1-4 (Sheet 2 of 4)	<p>Change: Name "B-spent fuel pit pump" to "A-spent fuel pit pump"</p> <p>Editorial: Correct equipment name</p>
8.3-67	Table 8.3.1-4 (Sheet 3 of 4)	<p>Change: Name "C-spent fuel pit pump" to "B-spent fuel pit pump"</p> <p>Editorial: Correct equipment name</p>
8.3-68	Table 8.3.1-4 (Sheet 4 of 4)	<p>Change: Name "D-spent fuel pit pump" to "B-spent fuel pit pump"</p> <p>Editorial: Correct equipment name</p>
8.3-69	Table 8.3.1-5	<p>Change: Number of quantity installed of Non-Essential Chiller Unit, "1" to "2"</p> <p>Editorial: Correct number of quantity</p>

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-74	Table 8.3.1-7 (Sheet 4 of 4)	Change: Name of D1-Motor Control Center Load, "D-XX" to "B-XX" Editorial: Correct name of loads
8.3-77	Table 8.3.1-9 (Sheet 2 of 7)	Add: "D1-Class 1E 480V Load Center" in 2nd line Editorial: Add missing equipment
8.3-77	Table 8.3.1-9 (Sheet 2 of 7) Under 7th line	Change: Room name, " Class 1E Battery Charger and UPS room" to "Class 1E UPS room" Editorial: Change to appropriate room name
8.3-78	Table 8.3.1-9 (Sheet 3 of 7) Above 12th line	Change: Room name, " Class 1E Battery Charger and UPS room" to "Class 1E UPS room" Editorial: Change to appropriate room name
8.3-78	Table 8.3.1-9 (Sheet 3 of 7) Under 11th line and above 20th line	Change: Building, floor, elevation and room, "R/B 2F, EL 25'-3" and Class 1E Battery Charger and UPS Room" to "PS/B B1MF, EL -14'-2" and Class 1E Battery Charger Room". Technical: Due to changing arrangement
8.3-78	Table 8.3.1-9 (Sheet 3 of 7) Under 19th line	Change: Building, floor, elevation and room, "R/B 2F, EL 25'-3" and Class 1E Battery Charger and UPS Room" to "PS/B B1MF, EL -14'-2" and Spare Battery Charger Room-1(2) " Technical: Due to changing arrangement
8.3-79	Table 8.3.1-9 (Sheet 4 of 7) Above 5th line	Change: Building, floor, elevation and room, "R/B 2F, EL 25'-3" and Class 1E Battery Charger and UPS Room" to "PS/B B1F, EL -26'-4" and Class 1E Battery Room " Technical: Due to changing arrangement
8.3-79	Table 8.3.1-9 (Sheet 4 of 7) 5th and 6th line	Change: Room name, "CRDM Panel Room" to "CRDM Cabinet Room" Editorial: Correct room name
8.3-82	Table 8.3.1-9 (Sheet 7 of 7) 5th and 6th line	Change: Room name, "Alternate AC Power Source Room" to "AAC GTG Room" Editorial: Correct room name
8.3-83	Table 8.3.1-10	Add: Table 8.3.1-10 Technical: Add necessary table

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-84, 85, 86 and 87	Table8.3.2-1	Change: Current of Load center for "0 to 1min" to 21A Change: Name of MOV Inverter to "A&B (C&D) MOV Inverter. And current of "0 to 1 min" in B and C battery to 1440A. Add: MCR radiation monitor pump RAI 08.03.02-7 and Technical: Change and add appropriate loads
8.3-88	Table8.3.2-2 (Sheet 1 of 4)	Add: MCR radiation monitor pump Technical: Add appropriate load
8.3-90 and 91	Table8.3.2-2 (Sheet 3 and 4 of 4)	Change: Current of switchgear and Load center for "0 to 1min" Technical: Change to appropriate loads
8.3-92 and 93	Table 8.3.2-3	Add: Note for battery Ah rating Editorial: Add appropriate note
8.3-94	Figure 8.3.1-1 (Sheet 1 of 7)	Change: High side of station service transformers N1 and N2, "6.9kV" to "13.8kV" Editorial: Correct appropriate specification
8.3-100	Figure 8.3.1-1 (Sheet 7 of 7)	Add: Non-essential chilled water system cooling tower fans and pumps Editorial: Add appropriate loads
8.3-103 to 117, and 123	Figure 8.3.1-2 (Sheet 3 to 17, and 23 of 24)	Change: "Bus initiation of overcurrent relay" to "Bus failure" Editorial: Change to appropriate words
8.3-103, 104 and 105	Figure 8.3.1-2 (Sheet 3, 4 and 5 of 24)	Change: breaker name, "52/RAT" to "Reserve Auxiliary Transformer Circuit Breaker" Editorial: Change to appropriate words
8.3-103	Figure 8.3.1-2 (Sheet 3 of 24)	Add: Four Circulating Water Pump in UV trip logic. Editorial: Add appropriate words
8.3-127, 128	Figure 8.3.1-4 (Sheet 1 and 2 of 5)	Add: Layout drawings for EL -26'-4" and EL -8'-7" Technical: Due to changing arrangement

US-APWR DCD Chapter 8 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
8.3-129	Figure 8.3.1-4 (Sheet 3 of 5)	Change: Room name, "Emergency Power Source Room" to "Class 1E GTG Room", "Alternate AC Power Source Room" to "AAC GTG Room" Editorial: Change appropriate room name
8.3-130	Figure 8.3.1-4 (Sheet 4 of 5)	Remove: Battery room. Technical: Due to changing arrangement Change: "Class 1E Battery Charger and UPS Room" to "Class 1E UPS Room". Editorial: Change to appropriate room name
8.3-131	Figure 8.3.1-4 (Sheet 5 of 5)	Add: Figure 8.3.1-4 (Sheet 5 of 5) Editorial: Add missing layout drawings
8.3-132 to 136	Figure 8.3.1-5	Add: Figure 8.3.1-5 Technical: Add necessary drawings
8.3-137	Figure 8.3.2-1 (Sheet 1 of 2)	Add: "Note 1" on the right side of B Class 1E 480V MCC and D Class 1E 480 V MCC. Editorial: Add necessary note
8.3-138	Figure 8.3.2-1 (Sheet 2 of 2)	Change: panel name, "Auxiliary Building Building DC Distribution Panel N1" to "Auxiliary Building DC Distribution Panel N1", "Transformer Auxiliary System DC Distribution Panel N2(4)" to "Auxiliary Building DC Distribution Panel N2(4)" Editorial: Change to appropriate panel name
8.4-6	8.4.2.2.1 1st paragraph, 1 2nd sentence	Replace: "The COL Applicant will provide at least two physically independent power circuits between the offsite grid systems and the plant high voltage switchyard. There would be a minimum of two physically independent transmission tie lines from the plant high voltage switchyard to onsite transformer yard." with "There would be a minimum of two physically independent transmission lines between the offsite grid systems and the plant high voltage switchyard and transmission tie lines from the plant high voltage switchyard to the onsite transformer yard. These are discussed in Section 8.2." Editorial: Clarify COL Information
8.4-9	8.4.2.2 4th paragraph	Add: "of RG 1.155" after "C.3.3.5" Editorial: Clarify guide

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-xviii	ACRONYMS AND ABBREVIATIONS	Editorial: Provided clarification Add “AC/B”
9.1-xviii	ACRONYMS AND ABBREVIATIONS	Editorial :Provided clarification Replace, “Compressed gas supply system” with “Compressed gas system”
9.1-xviii	ACRONYMS AND ABBREVIATIONS	Editorial: Provided clarification Add “CRE”
9.1-xviii	ACRONYMS AND ABBREVIATIONS	Editorial: Provided clarification Add “C/V”
9.1-xx	ACRONYMS AND ABBREVIATIONS	Editorial: Provided clarification Add “WWS”
9.1-1	9.1.1 Criticality safety of new and spent fuel storage 9.1.1.1 Design basis Forth paragraph, second sentence	Editorial: Provided clarification Add two words, “earthquake” and “internal missile” as natural phenomenon that is considered in the fuel storage and handling system design.
9.1-5	9.1.2 New and spent fuel storage 9.1.2.1 Design basis Sixth paragraph, last sentence	Editorial: Typo Replace, “...spent fuel pit cooling and cleanup systems which...”, with “spent fuel pit cooling and purification system (SFPCPS) which...”.
9.1-6	9.1.2 New and spent fuel storage 9.1.2.2.1 New fuel storage First paragraph, second sentence	Editorial: Provided clarification Replace, “...internal missiles” with “internal/external missiles”, in order to express precisely the type of missiles.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>9.1-8</p>	<p>9.1.2.2.2 Spent Fuel Storage</p> <p>Thirteenth Paragraph Fifth, sixth seventh, eighth sentences</p>	<p>Editorial: Provided clarification</p> <p>Replace, “A surveillance program is employed to monitor the long-term stability and mechanical integrity of the spent fuel rack poison. Additional poison coupons are installed in the fuel storage pit adjacent to recently discharged spent fuel. The coupon are visually examined periodically and tested for physical properties and neutron transmission. The initial surveillance is to be performed after an exposure of five years or less. Based on the results of the initial surveillance, the schedule for future surveillance will be determined.” with,</p> <p>“A program for monitoring the effectiveness of neutron poison by incorporating basic tests assures that the subcriticality requirements of the stored fuel array are maintained. The surveillance program relies on representative coupon samples to monitor performance of the absorber material without disrupting the integrity of the storage system. The coupons are hung in the spent fuel pit so that they receive dosage comparable to the rack poison panels. The coupons are periodically removed from the pool and examined for their physical appearance. After establishing that the coupon is indeed intact, it may be returned to the pool.</p>
<p>9.1-8</p>	<p>9.1.2.2.2 Spent Fuel Storage</p> <p>Thirteenth Paragraph Fifth, sixth seventh, eighth sentences</p>	<p>The coupons used in the surveillance program are taken from the poison material production lot. The surveillance program uses a predetermined number of test coupons that simulate the actual in-service conditions of the poison material in the storage racks.</p> <p>Each coupon is pre-characterized prior to insertion in the pool to provide reference initial values for comparison with measurements made after irradiation. Archive samples of the poison material will also be retained for later comparison with the irradiated coupons.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-8	9.1.2.2.2 Spent Fuel Storage Thirteenth Paragraph Fifth, sixth seventh, eighth sentences	A “tree” of coupons is mounted in a designated storage cell, located such that the freshly discharged fuel will always be in the surrounding cells. Coupons would be “pulled” and analyzed at preset intervals, to be determined as part of the surveillance program development effort. Based on the results of the initial surveillance coupon measurements, the future schedule will be determined as necessary.”
9.1-8	9.1.2.2.2 Spent Fuel Storage Last of thirteenth paragraph	Editorial: Provided clarification Add the following sentence after the paragraph, in order to consistent with the statement in Subsection 9.1.6 “Combined License Information”: “The COL applicant is to provide a program for monitoring the effectiveness of neutron present in the neutron absorbing panels.”
9.1-9	9.1.2.2.3 First paragraph	Editorial :Correction by two additional references Renumber the reference document “Ref.9.1.7-8” with “Ref.9.1.7-9”.
9.1-9	9.1.2.2.3 Second, and third paragraph	Editorial : Correction by two additional references Renumber the reference document “Ref.9.1.7-9” with “Ref.9.1.7-8”.
9.1-9	9.1.2.2.3 Last paragraph	Editorial : Correction by two additional references Renumber the reference document “Ref.9.1.7-9” with “Ref.9.1.7-8”.
9.1-11	9.1.3.1 Design Bases 2 nd bullet	Editorial: Improvement of statement clarity and content Deleted “for” from “for a ½ core offload” and changed the same by adding words/phrases to have:

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-11	9.1.3.1 Design Bases 2 nd bullet	<p>“during a 1/2 core offload with a SFP heat load equivalent to 10 years of stored spent fuel and a newly offloaded 1/2 core.”</p> <p>Inserted “active” between “single failure” in the 2nd statement.</p>
9.1-11	9.1.3.1 Design Bases 3 rd bullet	<p>Editorial: Improvement of statement clarity and content</p> <p>Deleted “for” from “for a full core offload” and changed the same by adding words/phrases to have:</p> <p>“during a full core offload with a SFP heat load equivalent to 10 years of stored spent fuel and a newly offloaded full core.”</p> <p>Inserted “active” between “single failure” in the 2nd statement.</p>
9.1-11	9.1.3.1 Design Bases 4 th bullet	<p>Editorial: Correct terminology</p> <p>Replaced “Standard and limited” with “Standard and limit.”</p>
9.1-11	9.1.3.1 Design Bases 5 th bullet	<p>Editorial: Correct grammatical usage</p> <p>Replaced “exchanger to” with “exchanger through.”</p>
9.1-12	9.1.3.2 System Description 1 st paragraph	<p>Editorial: Improve statement clarity and removal of misplaced statement</p> <p>Changed “The SFPCS” to “A schematic of the SFPCS.”</p> <p>Deleted “The SFPCS design parameters are listed in Table 9.1.3-1.”</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9.1-12	9.1.3.2 System Description 3 rd paragraph	Editorial: Change the order of words to clarify statement Replaced “a point above the top of the spent fuel assemblies 11 ft 1 in” with “a point 11 ft 1 in above the top of the spent fuel assemblies.”
9.1-13	9.1.3.2 System Description 5 st paragraph	Editorial: Correct to clarify statement Changed “RWSAT or the RWSP in parallel during” to “RWSAT, or the RWSP in parallel to.”
9.1-13	9.1.3.2 System Description 6 nd paragraph	Editorial: Change with appropriate terminology Replaced “portions” with “trains.”
9.1-13	9.1.3.2 System Description 7 rd paragraph	Editorial: Add statement concerning table not referred to in the text. Added “; refer to Table 9.1.3-2 for the SFP design parameters” after “The SFP is initially filled with water that has a boron concentration of approximately 4,000 ppm.”
9.1-13	9.1.3.2 System Description 8 th paragraph	Editorial: Correct to clarify statement Replaced “on SFP level in the MCR” with “from the SFP to the MCR.”
9.1-13	9.1.3.2 System Description 9 th paragraph	Editorial: Correct to clarify statement Replaced “source of SFP” with “source of water to the SFP.”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-13	9.1.3.2 System Description 9 th paragraph	Editorial: Addition of statements to provide clarity to system description Added “This tank contains 4000 ppm boric acid, thereby maintaining the initial boric acid water concentration in the SFP. The same concentration will be maintained during normal operations.”
9.1-13	9.1.3.2 System Description 10 th paragraph	Editorial: Correct to clarify statement Replaced “make up, a make up line” with “makeup line, another makeup line.” Replaced “from EFW the pit to SFP” with “from the EFW pit to the SFP” and “source of RWSP” with “source of the RWSP.”
9.1-14	9.1.3.2 System Description 18 th paragraph	Editorial: Correct sentence structure Replaced “(piping, pumps, valves, and heat exchangers)” with “(i.e., piping, pumps, valves, and heat exchangers).”
9.1-14	9.1.3.2 System Description 19 th paragraph	Editorial: Provide reference to unreferenced figure Replaced “The cooling and purification flow paths are shown in Figure 9.1.3-1.” with “The cooling and purification flow paths are shown in Figure 9.1.3-1 and Figure 9.1.3-2, respectively.”
9.1-14	9.1.3.2 System Description 20 th paragraph	Editorial: Correct sentence structure Replaced “SFPCS (piping, demineralizers, and filters) are non-safety related” with “SFPCS, i.e., piping, demineralizers, and filters, are non-safety related.”
9.1-14	9.1.3.2.1 Component Description	Editorial: Change order of table numbering Changed “Table 9.1.3-2” to “Table 9.1.3-3”.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9-1-15	9.1.3.2.1.6 Spent Fuel Pit Strainers	<p>Editorial: Spell out acronym at beginning of sentence; add omitted component</p> <p>Replaced “SFP” with “Spent fuel pit”.</p> <p>Added “and CS/RHR” to “SFP pump protection” in the 1st statement.</p>
9.1-15	9.1.3.2.1.7 Spent Fuel Pit Resin Trap	<p>Editorial: Deletion of inexistent component and its description</p> <p>Deleted the entire subsection.</p>
9.1-15	9.1.3.2.1.8 Valves	<p>Editorial: Subsection renumbering</p> <p>Subsection renumbered to 9.1.3.2.1.7.</p>
9.1-15	9.1.3.2.1.9 Piping	<p>Editorial: Subsection renumbering</p> <p>Subsection renumbered to 9.2.3.2.1.8</p>
9.1-16	<p>9.1.3.2.2.1 Plant Startup, Normal Operation, and Shutdown</p> <p>1st paragraph</p>	<p>Editorial: Clarify statement</p> <p>Replaced “the SFP” with “water to the SFP.”</p>
9.1-16	<p>9.1.3.2.2.1 Plant Startup, Normal Operation, and Shutdown</p> <p>2nd paragraph</p>	<p>Editorial: Correct terminology</p> <p>Replaced “effectiveness” with “efficiency”.</p>
9.1-16	9.1.3.2.2.2 Refueling 1 st paragraph	<p>Editorial: Correct terminology for clarity</p> <p>Replaced the “transfer of any fuel” with “in service during refueling operations.”</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>9.1-16</p>	<p>9.1.3.2.2 Refueling 2nd paragraph</p>	<p>Editorial: Delete superfluous terms and revise statement for coherence</p> <p>The statement: “Two purification trains are constantly operating in tandem with two cooling trains for purification and cooling of the SFP during normal operations” has been added.</p> <p>The statement: “The purification portion is isolated from the cooling portion during the refueling operation because it is utilized for purification of the refueling cavity at the early stage of the refueling operation”</p> <p>is replaced with “One purification train is isolated from the cooling portion to utilize it for purification of the refueling cavity at the early stage of the refueling operation.”</p> <p>Replaced “After the completion of refueling, the purification portion is switched to perform SFP water purification, if necessary.”</p> <p>with “After the completion of the refueling operation, the purification portion is switched to perform SFP water purification, if deemed necessary.”</p> <p>The word “portion(s)” was replaced with “train(s)”, as appropriate.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9.1-16	9.1.3.2.2.2 Refueling 3 rd paragraph	Editorial: Correct typos Deleted “operation” and one of the doubled “to that”.
9.1-16	9.1.3.2.2.2 Refueling Half Core Off-Load 1 st paragraph	Editorial: Revise statement for clarity Replaced “placed in the SFP” of “the most recently irradiated 1/2 core placed in the SFP beginning at 120 hours after shutdown.” with “completely transferred into the SFP.” Replaced “(one SFP pump or CCWS pump failure)” with “(e.g., one SFP pump or CCWS pump failure).” Replaced “five ½ cores” with “two and one-half cores.” Replaced “six ½ core” with “three cores.”
9.1-17	9.1.3.2.2.2 Refueling Full Core Off-Load 1 st paragraph	Editorial: Revise statement for clarity Added “completely transferred into the SFP” to have “the offloaded full core completely transferred to the SFP at 120 hours after shutdown.” Replaced “five ½ cores” with “two and one-half cores”. Replaced “Assuming a single active component failure (SFP pump, CS/RHRS pump or CCWS pump) the SFPCS is designed to maintain the pit water temperature below 140°F.” with “The SFPCS is designed to maintain the pit water temperature below 140°F assuming a single active component failure (e.g., of the SFP pump, CS/RHRS pump, or CCWS pump).”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-17	9.1.3.2.2.3 Spent Fuel Pit Purification 1 st paragraph	Editorial: Correct typos Replaced “and” with “acid.” Replaced “archive” with “achieve.”
9.1-17	9.1.3.2.2.3 Spent Fuel Pit Purification 2 nd paragraph	Editorial: Insert omitted component name Added “filter” before “outlet” in the 1 st sentence of the 2 nd bullet.
9.1-18	9.1.3.3.1 Spent Fuel Pit Cooling 1 st paragraph	Editorial: Insert omitted word Replaced “cooling to a SFP heat exchanger” with “cooling capability of a SFP heat exchanger.”
9.1-18	9.1.3.3.1 Spent Fuel Pit Cooling 4 th paragraph	Editorial: Provide clarity to process by adding phrase Inserted “with a single active failure” after “full core offload” in the last statement.
9.1-18	9.1.3.3.3 Spent Fuel Pit Dewatering 2 nd paragraph	Editorial: Correct grammatical error Replaced “feet” to “ft” in “24 feet.” Replaced “assemblies, which provides” with “assemblies, thus maintaining”.
9.1-19	9.1.3.5.2 Pressure 1 st paragraph	Editorial: Delete superfluous phrases Deleted “the” of “assess the pump” and “and measure the system pressure at the pump.”
9.1-20	9.1.3.5.3 Flow 2 nd paragraph	Editorial: Change to correct terminology Changed “SFP demineralizer” to “purification line.”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-20	9.1.4.1 Design basis First bullet in first paragraph	Editorial :Corrected statement Correct the wrong reference and delete the words “as defined in Section 3.8” from following sentence, “The LLHS is designed as seismic category I as defined in Section 3.8 and ...”
9.1-20	9.1.4.1 Design basis Forth bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document “Ref.9.1.7-11” with “Ref.9.1.7-13”.
9.1-21	9.1.4.1 Design basis Forth bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document “Ref.9.1.7-12” with “Ref.9.1.7-14”. Renumber reference document “Ref.9.1.7-13” with “Ref.9.1.7-15”.
9.1-21	9.1.4.1 Design basis Fifth bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document “Ref.9.1.7-14” with “Ref.9.1.7-16”.
9.1-23	9.1.4.2.1.3 Suspension Hoist on the Spent Fuel Cask Handling Crane First paragraph	Editorial :Provided clarification Add the following description after the paragraph in order to supplement the plant procedure provided by COL applicant that has been defined in Section 13.5: “In addition, administrative procedure defined in Subsection 13.5.1 is to be developed to preclude the suspension hoist from being utilized for activities other than for new fuel assembly handling.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-25	9.1.4.2.2.1 New fuel receipt 4 th paragraph	Editorial : Corrected statement The location of reference is more precisely indicated. Replace following sentence, "General arrangement figures for the US-APWR are presented in Chapter 1.0." with "General arrangement figures for the US-APWR are presented in Subsection 1.2.1.7."
9.1-25	9.1.4.2.2.2 Reactor refueling operations First paragraph	Editorial :Provided clarification "Refueling operations are outlined below and performed in accordance with procedures prepared by the Combined License (COL) Applicants", is replaced with, "Refueling operations are outlined below and performed in accordance with operating procedures defined in Subsection 13.5.2."
9.1-28	9.1.4.2.2.4 Spent fuel shipment Ninth bullet in first paragraph	Editorial :Provided clarification "The cask is lifted, the baggy is removed and properly stored and/or disposed in accordance with COL Applicants procedures.", is replaced with, "The cask is lifted, the baggy is removed and properly stored and/or disposed in accordance with operating procedures defined in Subsection 13.5.2."
9.1-28	9.1.4.2.2.4 Spent fuel shipment Tenth bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document "Ref.9.1.7-15" with "Ref.9.1.7-17". Renumber reference document "Ref.9.1.7-16" with "Ref.9.1.7-18".

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-28	9.1.4.2.2.4 Spent fuel shipment Tenth bullet in first paragraph	Editorial : Provided clarification The last sentence, “as specified in the COL Applicants operation procedures” is replaced with, “as specified in the operating procedures defined in Subsection 13.5.2.
9.1-29	9.1.4.3 Safety evaluation First paragraph	Editorial :Typo “The light load handling system” is replaced with the acronyms “The LLHS”.
9.1-29	9.1.4.3 Safety evaluation First bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document “Ref.9.1.7-11” with “Ref.9.1.7-13”.
9.1-29	9.1.4.3 Safety evaluation First bullet in first paragraph	Editorial :Provided clarification “This is further assured through the COL applicants operating procedures.” is replaced with, “This is further assured through the operating procedures defined in Subsection 13.5.2.”
9.1-29	9.1.4.3 Safety evaluation Second bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document “Ref.9.1.7-11” with “Ref.9.1.7-13”.
9.1-29	9.1.4.3 Safety evaluation Third bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document “Ref.9.1.7-11” with “Ref.9.1.7-13”.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-29	9.1.4.3 Safety evaluation Third bullet in first paragraph	Editorial :Provided clarification “This is further assured through the COL applicants operating procedures.” is replaced with, “This is further assured through the operating procedures defined in Subsection 13.5.2.”
9.1-29	9.1.4.3 Safety evaluation Forth bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document “Ref.9.1.7-11” with “Ref.9.1.7-13”.
9.1-29	9.1.4.3 Safety evaluation Fifth bullet in first paragraph	Editorial : Correction by two additional references Renumber reference document “Ref.9.1.7-11” with “Ref.9.1.7-13”.
9.1-29	9.1.4.3 Safety evaluation Fifth bullet in first paragraph	Editorial : Provided clarification “This is further assured through the COL applicants operating procedures.” is replaced with, “This is further assured through the operating procedures defined in Subsection 13.5.2.”
9.1-30	9.1.4.5 Instrumentation requirements Third sentence in third paragraph	Editorial :Provided clarification “Additionally, the COL Applicant is to provide” is replaced with, “Additionally, administrative procedure defined in Subsection 13.5.1 provides”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-31	9.1.5.1 Design bases Second paragraph	Editorial : Correction by two additional references Renumber reference document "Ref.9.1.7-17" with "Ref.9.1.7-19". Renumber reference document "Ref.9.1.7-18" with "Ref.9.1.7-20".
9.1-32	9.1.5.1 Design basis Sixth paragraph	Editorial :Provided clarification " The operation, testing, maintenance, and inspection of OHLHS are controlled through the use of safe load paths as defined in Figure 9.1.5-1 through 9.1.5-4 and administrative control procedures", is replaced with,
9.1-32	9.1.5.1 Design bases Table	Editorial : Correction by two additional references Renumber reference document "Ref.9.1.7-19" with "Ref.9.1.7-21". Renumber reference document "Ref.9.1.7-20" with "Ref.9.1.7-22".
9.1-34	9.1.5.2.3 Polar crane Second bullet in third paragraph	Editorial :Provided clarification "For the heavy loads, polar crane movement is limited to exclude the area bounded by the reactor cavity by way of the COL applicants administrative control procedures" is replaced with, "For the heavy loads, polar crane movement is limited to exclude the area bounded by the reactor cavity by way of the administrative procedures defined in Subsection 13.5.1."

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9.1-34,35	9.1.5.3 Safety evaluation First bullet in first paragraph	Editorial : Correction by two additional references ReNUMBER reference document "Ref.9.1.7-17" with "Ref.9.1.7-19". ReNUMBER reference document "Ref.9.1.7-18" with "Ref.9.1.7-20". ReNUMBER reference document "Ref.9.1.7-21" with "Ref.9.1.7-23". ReNUMBER reference document "Ref.9.1.7-22" with "Ref.9.1.7-24".
9.1-35	9.1.5.3 Safety evaluation Second bullet in first paragraph	Editorial : Correction by two additional references ReNUMBER reference document "Ref.9.1.7-17" with "Ref.9.1.7-19". ReNUMBER reference document "Ref.9.1.7-18" with "Ref.9.1.7-20". ReNUMBER reference document "Ref.9.1.7-21" with "Ref.9.1.7-23". ReNUMBER reference document "Ref.9.1.7-22" with "Ref.9.1.7-24".
9.1-35	9.1.5.3 Safety evaluation Third bullet in first paragraph	Editorial : Correction by two additional references ReNUMBER reference document "Ref.9.1.7-20" with "Ref.9.1.7-22".
9.1-35	9.1.5.4 Inspection and testing requirement Second paragraph	Editorial : Correction by two additional references ReNUMBER reference document "Ref.9.1.7-18" with "Ref.9.1.7-20".
9.1-35	9.1.5.4 Inspection and testing requirement Third paragraph	Editorial : Correction by two additional references ReNUMBER reference document "Ref.9.1.7-18" with "Ref.9.1.7-20".

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-35	9.1.5.4 Inspection and testing requirement Forth paragraph	Editorial : Correction by two additional references Renumber reference document "Ref.9.1.7-20" with "Ref.9.1.7-22".
9.1-35	9.1.5.5 Instrument requirement First paragraph	Editorial : Correction by two additional references Renumber reference document "Ref.9.1.7-17" with "Ref.9.1.7-19".
9.1-36	9.1.5.5 Instrument requirement Second paragraph	Editorial :Provided clarification "This resetting is performed remotely from the system controls and is governed by the OHLHS administrative control procedures." is replaced with, "This resetting is performed remotely from the system controls and is governed by the OHLHS administrative procedures defined in Subsection 13.5.1."
9.1-36	9.1.5.5 Instrument requirement Third paragraph	Editorial :Provided clarification "The manual interlocks are controlled by the COL applicants administrative control procedures.", is replaced with, "The manual interlocks are controlled by the administrative procedures defined in Subsection 13.5.1."
9.1-36	9.1.5.5 Instrument requirement Fifth paragraph	Editorial: Correction by two additional references Renumber reference document "Ref.9.1.7-18" with "Ref.9.1.7-20".

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-36	9.1.5.5 Instrument requirement Sixth paragraph	Editorial: Correction by two additional references Renummer reference document "Ref.9.1.7-20" with "Ref.9.1.7-22".
9.1-36	COL 9.1.(2)	Technical :US-APWR does not have skimmer system. If the system is attached by customer requirements, the system is added as the COL departure item in the COL application. Deleted.
9.1-37	COL 9.1.(3)	Editorial : This COL item is programmatic, and as a part of plant procedures and administrative procedures those has been defined in Subsection 13.5. Since these procedures has already been identified as COL item in Subsection 13.5, the item described in Section 9.1 was deleted to avoid duplicate description in the DCD.
9.1-37	COL 9.1.(4)	Editorial : This COL item is programmatic, and as a part of plant procedures and administrative procedures those has been defined in Subsection 13.5. Since these procedures has already been identified as COL item in Subsection 13.5, the item described in Section 9.1 was deleted to avoid duplicate description in the DCD.
9.1-37	COL 9.1.(5)	Editorial : This COL item is programmatic, and as a part of plant procedures and administrative procedures those has been defined in Subsection 13.5. Since these procedures has already been identified as COL item in Subsection 13.5, the item described in Section 9.1 was deleted to avoid duplicate description in the DCD.
9.1-37	COL 9.1.(6)	Editorial : This COL item is programmatic, and as a part of plant procedures and administrative procedures those has been defined in Subsection 13.5. Since these procedures has already been identified as COL item in Subsection 13.5, the item described in Section 9.1 was deleted to avoid duplicate description in the DCD.
9.1-37	COL 9.1.(7)	Editorial : This COL item is programmatic, and as a part of plant procedures and administrative procedures those has been defined in Subsection 13.5. Since these procedures has already been identified as COL item in Subsection 13.5, the item described in Section 9.1 was deleted to avoid duplicate description in the DCD.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.1-37	COL 9.1.(8)	Editorial : This COL item is programmatic, and as a part of plant procedures and administrative procedures those has been defined in Subsection 13.5. Since these procedures has already been identified as COL item in Subsection 13.5, the item described in Section 9.1 was deleted to avoid duplicate description in the DCD.
9.1-38	Ref. 9.1.7-6	Editorial :Add new reference Insert following reference document after Ref.9.1.7-5: "9.1.7-6 Criticality Analysis for US-APWR new and spent fuel racks. MUAP-07032, February, 2008"
9.1-38	Ref. 9.1.7-8	Editorial :Add new reference Insert following reference document after Ref.9.1.7-7: "9.1.7-8 Mechanical Analysis for US-APWR new and spent fuel racks. MUAP-07033, March, 2009."
9.1-37, 38	Subsequent references after Ref.9.1.7-8	Editorial: Renumber the references subsequently to the above two additional references.
9.1-40	Table 9.1.3-1 Recommended Spent Fuel Pit Water Chemistry Speciation	Editorial: Change to correct terminology ·Line 4, column 1 and 3 Changed "Suspended solids" and "0.05" to "Turbidity" and "0.5."

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>9.1-40</p>	<p>Table 9.1.3-2 Spent Fuel Pit Cooling and Purification System Design Parameters</p>	<p>Editorial: Correct title name to conform with content; deletion of superfluous term</p> <p>Changed table heading from “Spent Fuel Pit Cooling and Purification Design Parameters” to “Spent Fuel Pit Design Parameters”.</p> <p>·Line 1, column 2 Deleted “Nominal”.</p>
<p>9-1-41</p>	<p>Table 9.1.3-3 Spent Fuel Pit Cooling and Purification System Component Design Parameters (Sheet 1 Of 2)</p>	<p>Editorial: Employ rounding off of values for a more conservative design; deleted superfluous terms and spell outs of standard abbreviations; add terms/phrases for clarity</p> <p>99.68 °F changed to 100 °F.</p> <p>Deleted the spell out “pounds per square inch”.</p> <p>Deleted “Approximately” in all four locations.</p> <p>Changed heat transfer rate value of 28.2×10^6 BTU/h/unit to “28×10^6 BTU/h (per unit)”.</p> <p>Changed “6.2 BTU/h/°F” to 6.3 BTU/h-°F”</p> <p>Changed “BTU/h/°F” to “BTU/h -°F” in one other location.</p> <p>Added the phrase “(UA value)” after item names, “Design capacity” and “Minimum capacity for normal cooling”.</p> <p>Deleted “Max.” in two locations.</p> <p>Deleted “Maximum” in two locations.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9-1-41	Table 9.1.3-3 Spent Fuel Pit Cooling and Purification System Component Design Parameters (Sheet 1 Of 2)	<p>Deleted 3 columns of parameters and their corresponding values, namely:</p> <ul style="list-style-type: none"> Particle removal rates Pressure drop (clean) Maximum pressure drop (at replacement) <p>Added "Normal to "Operating flow rate" in the SFP Filters specification.</p>
9-1-42	Table 9.1.3-3 Spent Fuel Pit Cooling and Purification System Component Design Parameters (Sheet 2 Of 2)	<p>Editorial: Delete unnecessary design parameters</p> <p>Deleted 3 columns of parameters and their corresponding values in two locations, namely:</p> <ul style="list-style-type: none"> Mesh size First pressure drop (clean) Maximum pressure drop (at replacement)
9.1-48	Figure 9.1.3-1 Schematic of Spent Fuel Pit Purification and Cooling System (Purification Portion)	<p>Editorial: Change to correct terminology</p> <p>Corrected the figure title by changing "Purification" to "Cooling".</p>
9.1-48	Figure 9.1.3-1 Schematic of Spent Fuel Pit Purification and Cooling System (Purification Portion)	<p>Technical: Correct erroneous route in P&ID</p> <p>EFW pit supply line re-routed directly to the SFP.</p>
9.2-1	9.2.1.1.1 Safety Design Bases The 1st bullet	<p>Editorial: Correct grammatical error</p> <p>Replaced " including the " with " in conjunction with the ".</p>
9.2-2	9.2.1.1.1 Safety Design Bases The 8th bullet	<p>Editorial: Clarify scope of statement</p> <p>Replaced " The ESWS does not supply cooling water to any non safety-related components. " with " The ESWS is designed with the capability to isolate non- safety related portion. ".</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-2	9.2.1.2.1 General Description 1 st sentence of 1 st paragraph	Editorial: Typo Replace " the process and instrumentation diagram" with "the piping and instrumentation diagram".
9.2-2	9.2.1.2.1 General Description third paragraph	Editorial: Typo and consideration of interface with COL Replace " Discharge lines after the strainers are tapped to supply cooling water to the ESWP motor coolers. Each line is then tapped to supply cooling water to the essential chiller units and then supplies cooling water to the CCW HX in the R/B." with " Each supply line after the strainer is tapped to supply cooling water to each component.".
9.2-2	9.2.1.2.1 General Description The 2th and 3th sentences in the 5 th paragraph	Editorial: Typo Revised tense.
9.2-2	9.2.1.2.1 General Description The last paragraph	Editorial: Provided clarification Newly added
9.2-3	9.2.1.2.1 General Description 1 st paragraph	Editorial: Provided clarification Newly added
9.2-3	9.2.1.2.2.1 ESWPs The second sentence in the 3rd paragraph	Editorial: Clarify scope of statement Replaced " The system resistance and thus the pump head requirement is site specific and depends on the source and location of the UHS. " with " The COL Applicant is to provide the site specific design data of the ESWPs. ".
9.2-4	9.2.1.2.2.6 Valves The 1 st sentence in the third paragraph	Editorial: Typo Replaced " CCW plate HX " with " CCW HX ".

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-4	9.2.1.2.2.7 Ultimate Heat Sink	Editorial: In section 9.2.1, Section 9.2.5 is already referred for UHS description. Deleted this subsection.
9.2-5	9.2.1.3 Safety Evaluation The 1 st sentence in the 4th paragraph	Editorial: Typo Revised tense.
9.2-6	9.2.1.3 Safety Evaluation The last 4 paragraphs	Editorial: Provided clarification Newly added
9.2-6	9.2.1.4 Inspection and Testing Requirements The last paragraph	Editorial: Provided clarification Add the following. "The periodic performance verification of the ESWS component, including the heat exchanger which is cooled by the ESW, is performed to detect the performance degradation due to the fouling."
9.2-7	9.2.1.5.7 Other Instrumentation The 1st sentence	Editorial: Typo Replaced " As shown in Figure 9.2.1-1 " with " As shown in the piping and instrumentation diagram of the ESWS ".
9.2-43	Table 9.2.1-1 Essential Service Water System Component Design Data ESW Pump Discharge Valve	Editorial: Equipment class is already including ASME Class information. Deleted "Design Code ASME Section III, Class 3" of the last line of the table. Editorial: Typo "ESW " was spelled out.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-43	Table9.2.1-1 Essential Service Water System Component Design Date	<p>Technical: Modification due to design progress</p> <p>Replaced the following component's design pressure from " 100psig " to " 150 psig " .</p> <p>Essential Service Water Pump Outlet Strainer</p> <p>Component Cooling Water Heat Exchanger Inlet Strainer</p>
9.2-43	Table9.2.1-1 Essential Service Water System Component Design Date	<p>Editorial: Equipment class is already including Quality Group information.</p> <p>Deleted " Quality Group " .</p>
9.2-63,64,65	Figure 9.2.1-1 Figure subject	<p>Editorial: Typo</p> <p>Replace " Essential Service Water System " with " Essential Service Water System Piping and Instrumentation Diagram " .</p>
9.2-63,64,65	Figure 9.2.1-1	<p>Technical: Modification due to design progress</p> <p>Revised the design pressure, where downstream of ESWP discharge valve from 100 psig to 150psig.</p> <p>Revised VLV-521A,B,C,D to butterfly valve.</p> <p>Editorial: Provided clarification</p> <p>Add the signal for the ESWP actuation</p>
9.2-9	9.2.2.2 System Description The 1 st sentence in the second paragraph	<p>Editorial: Typo</p> <p>Replaced " The CCWS is a closed " with " The CCWS is the closed " .</p>
9.2-9	9.2.2.2 System Description The 1 st sentence in the 5th paragraph	<p>Editorial: typo</p> <p>Replaced " There is a header " with " There is the header " .</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-10	9.2.2.2.1.3 CCW Surge Tank The third paragraph	Editorial: Typo Revised tense.
9.2-11	9.2.2.2.1.5 Valves Containment Spray/Residual Heat Removal Heat Exchanger (CS/RHRS HX) CCW Outlet Valve	Editorial: Typo Replaced " the safety injection signal" with " ECCS actuation signal".
9.2-12	9.2.2.2.1.5 Valves • Isolation valve between seismic category I portion and non-seismic category I portion The second sentence in the 1 st paragraph	Editorial: Typo Revised tense
9.2-12	9.2.2.2.2.1 Normal Power Operation The 1st and third paragraph	Editorial: Typo Revised tense
9.2-13	9.2.2.2.2.4 Loss of Coolant Accident The second sentence	Editorial: Typo Replaced " opened by the ECCS actuation signal and the same train CCWP start signal or containment spray actuation signal " with " opened by the ECCS actuation signal and the same train CCWP start signal " .
9.2-13	9.2.2.3 Safety Evaluation The second sentence in the 1st paragraph	Editorial: Typo Revised tense

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-14	9.2.2.3 Safety Evaluation The 4th paragraph	Editorial: Typo Revised tense
9.2-14	9.2.2.3.1 Leakage from Higher Pressure Components into CCWS The 1st paragraph	Editorial: Typo Replaced " an alarmed " with " transmit an alarm ". Replaced "main control room" with "MCR" . Revised tense
9.2-14	9.2.2.3.2 Leakage from CCWS The second paragraph	Editorial: Typo Revised tense
9.2-14	9.2.2.3.3 Sharing of CCWS The 1st sentence	Editorial: Typo Replaced " CCWS is not shared among multi-unit " with " The CCWS is not shared with multi-units " .
9.2-15	9.2.2.3.5 RCP seal protection The 1st sentence	Editorial: Typo Replaced "condition " with "event " . Replaced " CVCS " with " CVCS is " .
9.2-16	9.2.2.5.4 CCW surge tank water level The second sentence in the 1st paragraph	Editorial: Typo Revised tense

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-16	9.2.2.5.5 RCP thermal barrier HX and RCP motor cooling water flow rate The last sentence	Editorial: Typo Revised tense
9.2-49	Table 9.2.2-2 Component Cooling Water System Component Design Date	Editorial: Typo Replaced " CCW Pumps(all data is per pump) " with " Component Cooling Water Pump ". Replaced " CCW Heat Exchanger(all data is per exchanger) " with " Component Cooling Water Heat Exchanger ". Replaced " CCW surge tank(all data is per tank) " with " Component Cooling Water Surge Tank ".
9.2-49	Table 9.2.2-2 Component Cooling Water System Component Design Date	Editorial: Provided clarification Replaced " Inlet temperature " with " Design Inlet temperature ". Replaced "outlet temperature " with " Design outlet temperature ".
9.2-49	Table 9.2.2-2 Component Cooling Water System Component Design Date	Technical: Modification due to design progress Replaced the design pressure of the ESW side from " 100 psig " to " 150psig ".
9.2-66 to 9.2-74	Figure 9.2.2-1	Editorial: Typo Replace " CCW Flow Diagram " with " Component Cooling Water System Piping and Instrumentation Diagram".

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>9.2-66 to 9.2-74</p>	<p>Figure 9.2.2-1</p>	<p>Technical: Modification due to design progress</p> <p>Revised the figure including the following:</p> <ul style="list-style-type: none"> ▪ Changed VLV-221 from “Locked closed valve” to “normal open and un-locked valve” . ▪ Added MOV-316A,B and VLV-306A,B. ▪ Added connection with another system to the charging pump cooling water line. ▪ Added T.C and T.V to C/V penetration line. ▪ Replaced the design pressure of the ESW side from “ 100 psig “ to “ 150psig ”. ▪ Deleted annunciation function from FIA-1284,1285. ▪ Deleted local pressure indicator (PI-1203) for A-CCW surge tank. ▪ Deleted “B.N” from LICA-1200 and LICA-1210. ▪ Added “LC” to VLV-017A,B,C,D, 071A,B,C,D and 073A,B,C,D. ▪ Deleted radioactive concentration boundary code from VLV-045A,B. ▪ Added equipment class boundary code to VLV-004B. ▪ Deleted the reducer at inlet and outlet line of A,B-CCWP motor. ▪ Added C/V penetration No.
<p>9.2-18</p>	<p>9.2.4.1 Design Bases</p>	<p>Editorial: Clarify scope of statement</p> <p>Add following text after the last sentence of last bullet.</p> <p>“COL Applicant is to confirm that the sanitary waste is sent to the onsite plant treatment area or they will use the city sewage system.”</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-54	Table 9.2.4-1 Chlorine metering pump	Editorial: Correct typographical error Deleted the duplicated line from the table.
9.2-75	Figure 9.2.4-1	Editorial: Clarify scope of statement Correct the table label and revised the figure.
9.2-22	9.2.5.1 Design Bases The second paragraph 6th bullet	Editorial: Grammatical change Replaced " UHS are capable of withstanding " with " UHS are designed to withstand " .
9.2-22	9.2.5.1 Design Bases The second paragraph 8th bullet	Editorial: Provided clarification Add " The COL Applicant is to decide the cooling period in accordance with the site specific UHS. " after the 1 st sentence .
9.2-22	9.2.5.2 System Description The third paragraph	Editorial: Change of text configuration Moved this paragraph from the last paragraph.
9.2-22	9.2.5.2 System Description The 4 th , 5 th and 6th paragraph	Editorial: Typo Replace " The COL Applicant will " with " The COL Applicant is to " .
9.2-22,23	9.2.5.2 System Description The last three paragraphs	Editorial: Provided clarification Newly added

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-27	9.2.6.5.2 Level Transmitters and Level Switches second and third sentence	Editorial Changed "main control room" to "MCR"
9.2-76	Figure 9.2.6-1,	Technical Delete Steam converter feedwater tank line.
9.2-77,78	Figure 9.2.6-2 and Figure 9.2.6-3	Technical: Modification due to design progress Revised the figure.
9.2-29	9.2.7.2.1 Essential Chilled Water System second paragraph	Editorial: Correct the scope of statement Replaced ", a factory-packaged" with "a water-cooled"
9.2-30	9.2.7.2.2 Non-Essential Chilled Water System first paragraph	Editorial: Correct the scope of statement Replaced "factory-packaged" with "water-cooled"
9.2.-31	9.2.7.4.1 Essential Chilled Water System first paragraph	Editorial: Correct the scope of statement Remove "at the factory"
9.2.-31	9.2.7.4.2 Non-Essential Chilled Water System first paragraph	Editorial: Correct the scope of statement Remove "at the factory"
9.2-32	9.2.7.5.1 Essential Chilled Water System second paragraph, first bullet	Editorial: Correct the scope of statement Replace "Temperature of entering and leaving chilled water temperature are monitored, with an alarm for leaving chilled water temperature exceeding the design limit." with "Temperature indication of entering and leaving chilled water with an alarm for leaving chilled water temperature exceeding the design limit."

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-32	9.2.7.5.2 Non-Essential Chilled Water System first paragraph, first bullet	Editorial: Correct the scope of statement Replace "Temperature of entering and leaving chilled water and condenser water temperature with an alarm for leaving chilled water temperature exceeding the design limit." with "Temperature indication of entering and leaving chilled water and condenser water with an alarm for leaving chilled water temperature exceeding the design limit."
9.2-79,80	Figure 9.2.7-1 (sheet 1 of 2 and 2 of 2)	Editorial: Replace the flow diagram due to correcting the typographical error Add valves (WVS-VLV-257A,B,C,D and VWS-VLV-258A,B,C,D) that are boundary of equipment class. Remove the charging pump area AHU cooling coil from Train-B and Train-C Change "VWS-TCV-2731A" to " VWS-TCV-2731", and "VWS-TCV-2736B" to "VWS-TCV-2736"
9.2-34	9.2.8.2.2.1 Pumps first paragraph, third sentence	Editorial Deleted "single stage",
9.2-34	9.2.8.2.2.1 Pumps first paragraph	Editorial Deleted "Each pumps is driven by an ac powered motor."
9.2-36	9.2.8.5 Instrumentation Requirements fifth paragraph	Editorial Changed "main control room" to "MCR"
9.2-61	Table 9.2.8-1	Editorial Deleted Fluid of TCS Pump.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-61	Table 9.2.8-1	Editorial Deleted Rated Power, HP of TCS Pump.
9.2-61	Table 9.2.8-1	Editorial Deleted Fluid of TCS Heat Exchanger.
9.2-81	Figure 9.2.8-1	Technical Deleted Steam converter feedwater pump
9.2-36	9.2.9 Non-Essential Service Water System	Editorial Changed “ The non-essential service water system (non-ESW)” to “ The non-essential service water (non-ESW) system ”.
9.2-36	9.2.9.1.2 Power Generation Design Bases	Editorial Changed “ ...carry away the heat rejected by TCS...” to “...transfer heat to the CWS ...”.
9.2-38	9.2.9.2.2.2 Non-essential Service Water Pump second paragraph	Editorial Deleted “single stage” and “constant speed”.
9.2-38	9.2.9.2.2.2 Non-essential Service Water Pump second paragraph	Editorial Deleted “The pumps are powered by an ac motor.”
9.2-39	9.2.9.5 Instrumentation Requirements first paragraph	Editorial Changed “main control room” to “MCR”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-62	Table 9.2.9-1	Editorial Deleted Fluid of Non-ESW Pump.
9.2-62	Table 9.2.9-1	Editorial Deleted Fluid of Non-ESW Strainer.
9.2-39	9.2.10 Combined License Information COL 9.2 (1)	Editorial: Clarify scope of statement Replaced “The COL Applicant is to confirm the function of ESWS at the lowest probable water level of the UHS.” with “The COL Applicant is to provide the evaluation of the ESWP at the lowest probable water level of the UHS.”
9.2-40	COL 9.2 (2)	Editorial: It is already described in DCD Deleted “, and water hammer”
9.2-40	COL 9.2 (6)	Editorial: Typo Deleted “, required”
9.2-40	COL 9.2 (7)	Editorial: Clarify scope of statement Replaced “The COL Applicant is to confirm the piping, valves, sizes and other design details.” with “The COL Applicant is to provide the piping, valves and other design of the ESWS related to the site specific condition, including the safety evaluation.”
9.2-40	COL 9.2 (9)	Editorial: Clarify scope of statement Replaced “The entire 9.2.4 is a COLA item. The storage capacity and usage of the potable water is a conservative COLA item and should be confirmed. Based on this the components is also to be confirmed.” with “COL Applicant is to confirm the storage capacity and usage of the potable water.”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.2-40	COL 9.2(13)	Editorial: Clarify scope of statement Replaced "COL Applicant is to confirm the supply of water (city or onsite wellsof another) and confirm the system operation." with "COL Applicant is to identify the portable water supply and describe the system operation."
9.2-40	COL 9.2 (16)	Editorial: Correct typographical error Replaced "Table 9.4.2-1" with "Table 9.2.4-1".
9.3-1	9.3.1 Compressed Air and Gas Systems Last bullet	Editorial: Provided clarification Add "(CGS)" after " Compressed gas system " .
9.3-8	9.3.2 Process and Post-Accident Sampling Systems	Editorial: Clarify scope of statement Changed " access control building " to " access building ".
9.3-8	9.3.2.1 Design Bases The first paragraph	Editorial: Provided clarification Changed " Item III.D.1.1, 10CFR50.34(f)(2)(viii) " to " Item III.D.1.1, SRP Section 9.3.2, 10CFR50.34(f)(2)(viii) ".

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.3-9	9.3.2.1 Design Bases The tenth paragraph	Editorial: Provided clarification Added " for conventional PWR " after the statement "equivalent to containment sump water ".
9.3-11	9.3.2.2.1 Primary Liquid Sampling System The sixth paragraph	Editorial: Add missing information Changed "Temperature and pressure" to "Temperature, flowrate and pressure".
9.3-12	9.3.2.2.3 Post-Accident Sampling The forth paragraph	Editorial: Provided clarification Appended " and 10CFR50.34(f) " to the last line.
9.3-13	9.3.2.2.3 Post-Accident Sampling The fifth paragraph	Editorial: Provided clarification Changed " II.B.3 and SECY 93-087 (Ref. 9.3.7-11) " to " II.B.3, 10CFR50.34(f), SRP Section 9.3.2 and SECY 93-087 (Ref. 9.3.7-11) ".
9.3-13	9.3.2.2.3 Post-Accident Sampling The eighth paragraph	Editorial: Provided clarification Changed " II.B.3, SECY93-087 " to " II.B.3, 10CFR50.34(f), SRP Section 9.3.2 and SECY93-087 ".

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.3-13	9.3.2.2.3 Post-Accident Sampling The ninth paragraph	Editorial: Correct typo Changed " to Seismic Category I requirements " to " to comply with seismic category I requirements ".
9.3-15	9.3.2.3 Safety Evaluation The first paragraph	Editorial: Correct typographical error. Deleted " ,SSS ".
9.3-17	9.3.3.1.2 Power Generation Design Bases The third bullet	Editorial: Add missing information Changed " and A/B " to " , A/B and access building ".
9.3-17	9.3.3.1.2 Power Generation Design Bases The last bullet	Editorial: Clarify scope of statement Changed " class 6, non-seismic and non-quality group as listed in Table 3.2-1 " to " class 4, 5 and 6 as listed in Table 3.2-2 ".
9.3-18	9.3.3.2 System Description The first paragraph	Editorial: Correct typographical error. Changed " access control building " to " access building". (same change was made at subsection 9.3.3.4.1)

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.3-26	9.3.4.2.2.1 Ionic Purification The third paragraph	Editorial: Provided clarification Replaced " for purification " with " for adjusting the pH in reactor coolant by removing lithium and purification ".
9.3-27	9.3.4.2.3.1 Chemical Shim and Makeup The third paragraph	Editorial: Provided clarification Replaced " or " with " and/or ".
9.3-46, 47	9.3.6 Combined License Information	Editorial: Delete unnecessary items Deleted COL 9.3(2) through 9.3(7) from COL item.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change										
9.3-61	Table 9.3.2-6 Process Grab Sample Points (a) (Sheet 2 of 3)	Editorial: Add missing sample point information Inset the line next to No.37 <table border="1"> <tbody> <tr> <td>38</td> <td>Steam Generator blowdown demineralizers inlet filters inlet</td> <td>Radioactivity, Specific conductivity, Cation conductivity, sodium ion, chloride ion,SO4 and pH</td> <td>145</td> <td>113</td> </tr> <tr> <td>39</td> <td>Steam Generator blowdown demineralizers inlet</td> <td>Radioactivity, Specific conductivity, Cation conductivity, sodium ion, chloride ion,SO4 and pH</td> <td>145</td> <td>113</td> </tr> </tbody> </table>	38	Steam Generator blowdown demineralizers inlet filters inlet	Radioactivity, Specific conductivity, Cation conductivity, sodium ion, chloride ion,SO4 and pH	145	113	39	Steam Generator blowdown demineralizers inlet	Radioactivity, Specific conductivity, Cation conductivity, sodium ion, chloride ion,SO4 and pH	145	113
38	Steam Generator blowdown demineralizers inlet filters inlet	Radioactivity, Specific conductivity, Cation conductivity, sodium ion, chloride ion,SO4 and pH	145	113								
39	Steam Generator blowdown demineralizers inlet	Radioactivity, Specific conductivity, Cation conductivity, sodium ion, chloride ion,SO4 and pH	145	113								
9.3-71	Figure 9.3.1-1	Technical: Modification due to design progress Revised the figure.										
9.3-73 through 77	Figure 9.3.2-1	Technical: Modification due to design progress Revised the figure.										
9.3-80 through 86	Figure 9.3.4-1	Technical: Modification due to design progress Revised the figure.										
9.4-1	9.4.1, first paragraph	Editorial: Clarify the statement Replaced “MCR envelope” with “control room envelope (CRE)”.										

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-2	9.4.1.1.1, 1 st , 2 nd and 6 th bullet	Editorial: Use applicable acronym Replaced “MCR envelope” with “CRE”
9.4-2	9.4.1.1.1, 6 th bullet	Editorial: Superfluous statement Deleted “and toxic gases”
9.4-2	9.4.1.1.1, last bullet	Editorial: Superfluous statement Deleted “or toxic gas”
9.4-2	9.4.1.1.1, last paragraph	Editorial: Correct the scope of statement by aligning with other DCD sections Replaced “The COL Applicant will provide proper MCR personnel protection against toxic gases (See COL item 9.4(1)).” with “Proper MCR personnel protection against toxic gases is described in Chapter 6, Section 6.4.”
9.4-2	9.4.1.1.2, 1 st bullet	Editorial: Use applicable acronym Replaced “MCR envelope” with “CRE”.
9.4-3	9.4.1.2, 1 st paragraph	Editorial: state requirement of COL 9.4(4) Add the following sentence after the first sentence. “The COL Applicant is to determine the capacity of heating coil that are affected by site specific conditions.”
9.4-3	9.4.1.2, 1 st paragraph	Editorial: Superfluous statement Deleted the following sentence because the CRE is defined in the first paragraph of subsection 9.4.1. “The MCR envelope consists of the MCR, operator area, shift supervisor office, clerk room, tagging room, toilet and kitchen.”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-3,4	9.4.1.2, 2 nd and 7 th paragraph	Editorial: Use applicable acronym Replaced “MCR envelope” with “CRE”
9.4-3	9.4.1.2, 5 th paragraph	Editorial: Correct component description Deleted “cooling coil”.
9.4-4	9.4.1.2.1, 4 th bullet	Editorial: Use applicable acronym Replaced “MCR envelope” with “CRE”
9.4-4	9.4.1.2.1, 5 th bullet	Editorial: Correct component description Deleted “cooling coil flow”
9.4-4	9.4.1.2.1, 10 th bullet	Editorial: Correct component description Deleted “cooling”
9.4-5	9.4.1.2.2.1, 6 th bullet	Editorial: Use applicable acronym Replaced “MCR envelope” with “CRE”
9.4-5	9.4.1.2.2.2, 1 st paragraph	Editorial: Superfluous statement Deleted “or the toxic gas detectors”, “or toxic gases”
9.4-6	9.4.1.2.3, 1 st paragraph	Editorial: Use applicable acronym Replaced “MCR envelope” with “CRE”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-6,7	9.4.1.3, 3 rd , 4 th and 8 th paragraph	Editorial: Use applicable acronym Replaced “MCR envelope” with “CRE”
9.4-7	9.4.1.4, 2 nd paragraph	Editorial: Correct the statement Replaced “plans” with “applicable programs”
9.4-7	9.4.1.4, 2 nd paragraph	Editorial: Use applicable acronym Replaced “MCR envelope” with “CRE “.
9.4-8	9.4.1.4 9 th paragraph, all sentence	Editorial: Correct the scope of statement by aligning with other DCD sections Replaced “The COL Applicant will perform initial tracer gas testing for MCR envelope, and will periodically repeat test per the plant specific Technical Specifications (See COL item 9.4(2))” with “Inservice test program requirements, including inleakage testing, are described in Chapter 16, “Technical Specifications.”
9.4-9	9.4.1.5, 10 th and 11 th bullet	Editorial: Clarify the scope of statement Add “low and high alarm” after “outlet airflow rate”. Add “low alarm” after “airflow rate”
9.4-9	9.4.3, 1 st paragraph	Editorial: Correct the scope of statement and use applicable acronym Replaced “and PS/B, except for the MCR envelope” with “PS/B, and AC/B, except for the CRE”.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-11	9.4.3.1.2.1, 1 st bullet	<p>Editorial :Correct the scope of statement</p> <p>Replaced “within the A/B, R/B and PS/B” with “within the A/B, R/B, PS/B and AC/B”</p>
9.4-11	9.4.3.1.2.3, 1 st bullet	<p>Editorial: Correct the statement</p> <p>Replaced “provide assurance of the electrical and mechanical components reliability” with “assure the reliability of the electrical and mechanical components”</p>
9.4-12	9.4.3.1.2.4, 2 nd bullet	<p>Editorial: Correct typographical error</p> <p>Replaced “personal comfort” with “personnel comfort”</p>
9.4-12	9.4.3.2.1, 1 st paragraph	<p>Editorial: State requirement of COL 9.4(4)</p> <p>Add the following sentence after the first sentence. “The COL Applicant is to determine the capacity of cooling and heating coils that are affected by site specific conditions.”</p>
9.4-12	9.4.3.2.1, 2 nd paragraph	<p>Editorial: Determined the standard of heating coil type for US-APWR HVAC system and provide consistency with DCD other sections</p> <p>Change “heating coil” to “steam heating coil”</p>
9.4-13	9.4.3.2.1, 4 th paragraph	<p>Editorial: Correct the scope of statement and provide consistency with functional requirement</p> <p>Replaced “The penetration and safeguard component area supply and exhaust line isolation damper assemblies are equipment class 2, seismic Category I and the auxiliary building HVAC system exhaust line isolation damper assemblies are equipment class 3, seismic Category I” with “The penetration and safeguard component area supply and exhaust line isolation damper assemblies, and the auxiliary building HVAC system exhaust line isolation damper assemblies are equipment class 2, seismic Category I”</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-13	9.4.3.2.1, 6 th paragraph	Editorial: Correct component description Replaced “cooling coil flow” with “chilled water”
9.4-13	9.4.3.2.1, 7 th paragraph	Technical: Determined the standard of heating coil type for US-APWR HVAC system and provide consistency with DCD other sections Change “heating coil” to “steam heating coil”
9.4-13	9.4.3.2.1, 7 th paragraph	Editorial: Correct the scope of statement Add “or in-duct heaters” after the “unit heaters”
9.4-13	9.4.3.2.1, 8 th paragraph	Editorial: Correct the scope of statement Insert “(AC/B controlled area)” after “sampling/laboratory area”
9.4-13	9.4.3.2.2, 1 st paragraph	Editorial: State requirement of COL 9.4(4) Add the following sentence after the first sentence “The COL Applicant is to determine the capacity of cooling and heating coils that are affected by site specific conditions.”
9.4-13,14	9.4.3.2.2, 2 nd and 3 rd paragraph	Editorial: Determined the standard of heating coil type for US-APWR HVAC system and provide consistency with DCD other sections Change “heating coil” to “steam heating coil”
9.4-14	9.4.3.2.2, 3 rd paragraph	Editorial: Correct component description Delete “cooling coil flow”.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-14	9.4.3.2.2, 3 rd paragraph	<p>Editorial: Add the additional information after the last of sentence</p> <p>Supplemental heating with local unit heaters or in-duct heaters is provided in rooms with higher heat loss.</p>
9.4-14	9.4.3.2.2, 5 th paragraph	<p>Editorial: Correct component description</p> <p>Delete “flow” after “The chilled water”</p> <p>Replaced “control room operator” with “MCR operator”.</p>
9.4-14	9.4.3.2.3, 1 st paragraph	<p>Editorial: State requirement of COL 9.4(4)</p> <p>Add the following sentence after the first sentence</p> <p>“The COL Applicant is to determine the capacity of cooling and heating coils that are affected by site specific conditions.”</p>
9.4-14	9.4.3.2.3, 2 nd paragraph	<p>Editorial: Correct component description</p> <p>Delete “cooling coil flow”.</p>
9.4-14	9.4.3.2.4, 1 st paragraph	<p>Editorial: State requirement of COL 9.4(4)</p> <p>Add the following sentence after the first sentence</p> <p>“The COL Applicant is to determine the capacity of cooling and heating coils that are affected by site specific conditions.”</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-15	9.4.3.2.4, 6 th paragraph	Editorial: Correct component description Delete “cooling coil”.
9.4-15	9.4.3.3.1, 1 st paragraph	Editorial: Correct component description and wording Replaced “Other than the safety-related seismic Category I penetration and safeguard component area envelope and auxiliary building HVAC system exhaust line ducts isolation damper assemblies” with “Other than the safety-related seismic category I isolation damper assemblies of penetration and safeguard component area supply and exhaust line and auxiliary building HVAC system exhaust line”
9.4-16	9.4.3.3.1, 3 rd paragraph	Editorial: Correct typographical error Replaced “3 ” with “2”
9.4-16	9.4.3.4, 3 rd paragraph	Editorial: Correct the statement Replaced “plans” with “applicable programs”
9.4-16	9.4.3.4, 3 rd paragraph	Editorial: Correct the scope of statement Replaced “and PS/B” with “PS/B, and AC/B”
9.4-19	9.4.3.5.4, 10 th bullet	Editorial: Correct the scope of statement Add “low and high alarm” after “outlet airflow rate”.
9.4-19	9.4.3.5.4, 11 th bullet	Editorial: Correct the scope of statement Add “low alarm” after “outlet airflow rate”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-21	9.4.4.4, 4 th bullet	<p>Editorial: Result of NRC conference call</p> <p>Added “(Ref. 9.4.8-16, Ref. 9.4.8-17, Ref. 9.4.8-18)” after “ Air Movement and Control Association Standard”.</p> <p>Added “(Ref. 9.4.8-19, Ref. 9.4.8-20)” after “ American Society of Heating, Refrigerating, and Air Conditioning Engineers Standard ”.</p> <p>Added “(Ref. 9.4.8-21, Ref. 9.4.8-22)” after “ Air Conditioning and Refrigeration Institute Standard ”.</p>
9.4-22	9.4.5, last paragraph	<p>Editorial: Provide consistent COL Applicant action and wording</p> <p>Add the following sentence after the last paragraph.</p> <p>“The COL Applicant is to provide a system information and flow diagram of ESW pump area ventilation system if the ESW pump area requires the ventilation system.”</p>
9.4-23	9.4.5.1.1.1, 1 st bullet	<p>Editorial: Correct typographical error</p> <p>Replaced “ANSI” with “ASME”</p>
9.4-23	9.4.5.1.1.2, 2 nd bullet	<p>Editorial: Correct the scope of statement</p> <p>Replaced “battery room” with “Class 1E battery room”</p>
9.4-25	9.4.5.2.1, 3 rd paragraph	<p>Editorial: Add missing word and clarify the scope of statement</p> <p>Add “the pressure of” after “down” in the second sentence</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-25	9.4.5.2.2, 1 st paragraph	<p>Editorial: State requirement of COL 9.4(4)</p> <p>Add the following sentence after the first sentence</p> <p>“The COL Applicant is to determine the capacity of heating coils that are affected by site specific conditions.”</p>
9.4-25,26	9.4.5.2.2, 3 rd paragraph	<p>Technical: due to changing arrangement</p> <p>Insert “Class 1E uninterruptible power supply (UPS) rooms” at the third of list of Class 1E electrical rooms</p> <p>Replaced “Class” with “Class 1E” in the fourth bullet</p> <p>Replaced “panel” with “cabinet” in the seventh bullet</p> <p>Replaced “M-G set and panel room” with “ M-G set and M-G set panel room” in the eight bullet</p> <p>Insert “Leakage rate testing (LRT) room (non-safety)” at the ninth of list of Class 1E electrical rooms</p>
9.4-26	9.4.5.2.2, 6 th paragraph	<p>Editorial: Correct the scope of statement</p> <p>Add “unit heaters or ” after “... provided with non safety-related”</p>
9.4-26	9.4.5.2.2, 7 th paragraph	<p>Editorial: Correct component description</p> <p>Deleted “cooling coil”</p>
9.4-26	9.4.5.2.2.1, 2 nd bullet	<p>Editorial: Correct component description</p> <p>Deleted “cooling coil flow”</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-27	9.4.5.2.3, 2 nd paragraph	Editorial: State requirement of COL 9.4(4) Add the following sentence after the second sentence “The COL Applicant is to determine the capacity of heating coils that are affected by site specific conditions.”
9.4-28	9.4.5.2.4, 2 nd paragraph	Editorial: State requirement of COL 9.4(4) Add the following sentence after the third sentence “The COL Applicant is to determine the capacity of heating coils that are affected by site specific conditions.”
9.4-28	9.4.5.2.4, 4 th paragraph	Editorial: Correct component description Deleted “cooling coil”
9.4-28	9.4.5.2.5, 2 nd paragraph	Editorial: State requirement of COL 9.4(4) Add the following sentence after the second sentence “The COL Applicant is to determine the capacity of heating coils that are affected by site specific conditions.”
9.4-28	9.4.5.2.5, 4 th paragraph	Editorial: Correct component description Deleted “cooling coil”
9.4-30	9.4.5.3.4, 2 nd bullet	Editorial Replaced “safeguard component areas” with “emergency feedwater pump areas.”
9.4-31	9.4.5.4, 2 nd paragraph	Editorial: Correct the statement Replaced “plans” with “applicable programs”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9.4-31	9.4.5.4.1, 1 st paragraph	<p>Editorial: add the additional information</p> <p>Insert "Inservice test program requirements are described in Chapter 16, "Technical Specifications." at the end of sentence</p>
9.4-36	9.4.6.2.1, 4 th paragraph	<p>Editorial: Correct component description</p> <p>Deleted "cooling coil flow"</p>
9.4-37	9.4.6.2.3, 4 th paragraph	<p>Editorial: Correct typographical error</p> <p>Replaced "CRDM cooling system" with "reactor cavity cooling system"</p>
9.4-37	9.4.6.2.4.1, 1 st paragraph	<p>Editorial: State requirement of COL 9.4(4)</p> <p>Add the following sentence after the first sentence.</p> <p>"The COL Applicant is to determine the capacity of cooling and heating coils that are affected by site specific conditions."</p>
9.4-38	9.4.6.2.4.2, 1 st paragraph	<p>Editorial: State requirement of COL 9.4(4)</p> <p>Add the following sentence after the first sentence.</p> <p>"The COL Applicant is to determine the capacity of cooling and heating coils that are affected by site specific conditions."</p>
9.4-38,39	9.4.6.3.1, 1 st paragraph	<p>Editorial: Correct the scope of statement</p> <p>Replace "all ductwork" with "a part of ductwork"</p> <p>Replace "seismic Category I" with "seismic category II"</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-39	9.4.6.3.2, 1 st paragraph	Editorial: Correct the scope of statement Replace “all ductwork” with “a part of ductwork” Replace “seismic Category I” with “seismic category II”
9.4-39	9.4.6.3.3, 1 st paragraph	Editorial: Correct the scope of statement Replace “all ductwork” with “a part of ductwork” Replace “seismic Category I” with “seismic category II”
9.4-39	9.4.6.4, 3 rd paragraph	Editorial: Correct the statement Replaced “plans” with “applicable programs”
9.4-42	9.4.7, COL 9.4(1)	Editorial: Provide consistent COL Applicant action and wording Change in its entirety to “Deleted”
9.4-42	9.4.7, COL 9.4(2)	Editorial: Provide consistent COL Applicant action and wording Change in its entirety to “Deleted”
9.4-42	9.4.7, COL 9.4(3)	Editorial: Provided consistent COL Applicant action and wording Change in its entirety to “Deleted”
9.4-42	9.4.7, COL 9.4(5)	Editorial: Provided consistent COL Applicant action and wording Change in its entirety to “Deleted”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>9.4-42</p>	<p>9.4.7, COL 9.4(6)</p>	<p>Editorial: Provided consistent COL Applicant action and wording</p> <p>Add the following new COL information</p> <p>“The COL Applicant is to provide a system information and flow diagram of ESW pump area ventilation system if the ESW pump area requires the heating, ventilating and air-conditioning.”</p>
<p>9.4-43</p>	<p>9.4.8 References</p>	<p>Editorial: Result of NRC conference call</p> <p>Add the following references:</p> <p>9.4.8-16 <u>“Laboratory Methods of Testing Fans for Rating,”</u> ANSI/AMCA 210-2007.</p> <p>9.4.8-17 <u>“Laboratory Methods of Testing Air Circulator Fans for Rating,”</u> ANSI/AMCA 230-1999.</p> <p>9.4.8-18 <u>“Industrial Process / Power Generation Fans: Establishing Performance Using Laboratory Models,”</u> ANSI/AMCA 802-2002</p> <p>9.4.8-19 <u>“Gravimetric and Dust Spot procedures for Testing Cleaning Devices Used in General Ventilation for Removing Particulate Matter,”</u> ASHRAE 52.1-1992.</p> <p>9.4.8-20 <u>“Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size,”</u> ASHRAE 52.2-2007.</p> <p>9.4.8-21 <u>“Forced-Circulation Air-Cooling and Air-Heating Coils,”</u> ARI 410-2001.</p> <p>9.4.8-22 <u>“Performance Rating of Room Fan-coils,”</u> ARI 440-2005.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-44 thru 47	Table 9.4-1 (general)	Editorial: Result of NRC conference call Added column of Location.
9.4-44 thru 47	Table 9.4-1 (general)	Editorial: Result of NRC conference call Add “ ^{Note3} ” on “Abnormal condition
9.4-44	Table 9.4-1 (Sheet 1 of 4)	Technical: Due to changing arrangement Insert the area design temperature condition of “Class 1E UPS Room” and “Leak Rate Testing Room” in this table.
9.4-45	Table 9.4-1 (Sheet 2 of 4)	Editorial: Remove Superfluous description Remove “(off operation)” from low of “B,C-EFW Pump area” and “ A,D-EFW Pump Area”
9.4-45	Table 9.4-1 (Sheet 2 of 4)	Editorial: Correct the erroneous omit Correct the Gas Turbine area temperature in normal condition from 50°F to 105°F.
9.4-45	Table 9.4-1 (Sheet 2 of 4)	Editorial: Correct the scope of statement Insert “AC/B” in the low of “General area”
9.4-46	Table 9.4-1 (Sheet 3 of 4)	Technical: Change the outside design temperature due to providing consistency with non-safety related plant HVAC design condition of the nuclear Island. Replace “Main Steam/Feedwater Piping Area HVAC System ^(c) ” with “Main Steam/Feedwater Piping Area HVAC System ^(b) ”
9.4-46	Table 9.4-1 (Sheet 3 of 4)	Editorial: Add the additional information Insert the area design temperature condition of “Communication System Equipment Room” and “Radwaste Control Room” in this table

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-46	Table 9.4-1 (Sheet 3 of 4)	Editorial: Result of NRC reference call Replaced the column "Sampling Room" with "General Mechanical Area (Sampling Room)" and moved to under the column "General Mechanical Area".
9.4-46	Table 9.4-1 (Sheet 3 of 4)	Editorial: Result of NRC conference call Replaced the column "Electrical Equipment Area" with "Electrical Equipment Area (including electrical room and non Class 1E Battery Room)".
9.4-46	Table 9.4-1 (Sheet 3 of 4)	Editorial: Result of NRC reference call Replaced "(SBO)" with "(SBO and LOOP)".
9.4-47	Table 9.4-1 (Sheet 4 of 4)	Editorial: Correct the scope of statement Changed "Note1:Design outside air temperature conditions are as follows: (a) -40°F(minimum) – 115°Fdry bulb /80°F coincident wet bulb (maximum) (0% exceedance values) (b) -10°F(minimum) – 100°Fdry bulb /77°F coincident wet bulb (maximum) (1% exceedance values) (c) -5°F(minimum) – 95°Fdry bulb /77°F coincident wet bulb (maximum) (5% exceedance values)" to "Note1:Outside air ambient design temperature conditions are as follows: (a) 0% exceedance dry bulb and wet bulb temperature of site ambient condition (See Chapter 2) (b) 1% exceedance dry bulb and wet bulb temperature of site ambient condition (See Chapter 2) (c) -5°F(minimum) to 95°Fdry bulb /77°F coincident wet bulb (maximum)"

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9.4-47	Table 9.4-1 (Sheet 4 of 4)	Editorial: Result of NRC conference call Added "Note2: Location: PCCV, Prestressed concrete containment vessel; RB, Reactor building; AB, Auxiliary building; ACB, Access building; PSB, Power source building; TB, Turbine building."
9.4-47	Table 9.4-1 (Sheet 4 of 4)	Editorial: Result of NRC conference call Added "Note 3: Smoke purge mode is not required the temperature and humidity condition."
9.4-48	Table 9.4.1-1, 10 th row	Editorial: Remove heating coil capacity information from 10 th row. Its value is COL 9.4 (4) and its statement is described in subsection
9.4-48	Table 9.4.1-1, 18 th row	Editorial: Remove (See COL item 9.4(3)) because of being resolved in DCD Revision 1.
9.4-48	Table 9.4.1-1, 19 th row	Editorial: Replace "95% (See COL item 9.4(3))" with 95% minimum" because of being resolved in DCD Revision 1.
9.4-49	Table 9.4.3-1 (Sheet 1 of 2), 8 th and 10 th row	Editorial: Remove "7,600,000 (See COL item 9.4(4))" and (See COL item 9.4(4))". Because the statement of this COL applicant action is described in Subsection 9.4.3.2.1
9.4-49	Table 9.4.3-1 (Sheet 1 of 2), 9 th row	Editorial: Replace "(See COL item 9.4(5))" with "Steam" because of being resolved in DCD Revision 1.
9.4-49	Table 9.4.3-1 (Sheet 1 of 2), 15 th row	Technical: Change the fan airflow due to changing arrangement Change "104,000" to "108,000"
9.4-49	Table 9.4.3-1 (Sheet 1 of 2), 21 st row	Technical: Change the fan airflow due to changing arrangement Change "49,000" to "40,000"
9.4-49	Table 9.4.3-1 (Sheet 1 of 2), 24 th and 26 th row	Editorial: Remove "1,525,000 (See COL item 9.4(4))" and (See COL item 9.4(4))". Because the statement of this COL applicant action is described in Subsection 9.4.3.2.2
9.4-49	Table 9.4.3-1 (Sheet 1 of 2), 31 st row	Technical: Change the fan airflow due to changing arrangement Change "41,500" to "36,250"

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-50	Table 9.4.3-1 (Sheet 2 of 2), 8 th and 10 th row	Editorial: Remove “401,000 (See COL item 9.4(4))” and (See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.3.3.2
9.4-50	Table 9.4.3-1 (Sheet 2 of 2), 18 th and 20 th row	Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.3.4.2
9.4-50	Table 9.4.3-1 (Sheet 2 of 2), 28 th row	Editorial: Remove (See COL item 9.4(3)) because of being resolved in DCD Revision 1.
9.4-50	Table 9.4.3-1 (Sheet 2 of 2), 29 th row	Editorial: Replace “95% (See COL item 9.4(3))” with 95% minimum” because of being resolved in DCD Revision 1.
9.4-52	Table 9.4.5-1 (Sheet 1 of 3), 5 th row	<p>Technical: Change the fan airflow due to changing arrangement</p> <p>Change “53,000” to “40,000 “ (Train-A,B) Change “65,000” to “52,000 “ (Train-C,D)</p>
9.4-52	Table 9.4.5-1 (Sheet 1 of 3), 8 th row	<p>Technical: Change the cooling coil capacity due to changing arrangement</p> <p>Change “1,777,000” to “1,830,000“ (Train-A,B) Change “2,286,000” to “2,370,000“ (Train-C,D)</p>
9.4-52	Table 9.4.5-1 (Sheet 1 of 3), 15 th row	<p>Technical: Change the fan airflow due to changing arrangement</p> <p>Change “47,800” to “34,800“ (Train-A,B) Change “59,800” to “46,800“ (Train-C,D)</p>
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 5 th row	<p>Technical: Change the fan airflow due to progress of the detailed engineering design</p> <p>Change “7,100” to “5000 “</p>
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 8 th row	<p>Technical: Change the cooling coil capacity due to progress of the detailed engineering design</p> <p>Change “199,000” to “180,000 “</p>
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 10 th row	Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.2

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 15 th row	Technical: Change the Unit Airflow Capacity due to progress of the detailed engineering design Change “2,300” to “2,100”
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 18 th row	Technical: Change the cooling coil capacity due to progress of the detailed engineering design Change “118,000” to “110,000”
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 20 th row	Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.3
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 25 th row	Technical: Change the cooling coil capacity due to progress of the detailed engineering design Change “1,200” to “1,300”
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 30 th row	Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.4
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 38 th row	Technical: Change the cooling coil capacity due to progress of the detailed engineering design (additional design margin) Change “357,000” to “330,000”
9.4-53	Table 9.4.5-1 (Sheet 2 of 3), 40 th row	Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.5
9.4-54	Table 9.4.5-1 (Sheet 3 of 3), 8 th row	Technical: Change the cooling coil capacity due to progress of the detailed engineering design (additional design margin) Change “6,000” to “10,000”
9.4-54	Table 9.4.5-1 (Sheet 3 of 3), 10 th row	Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.5

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.4-54	Table 9.4.5-1 (Sheet 3 of 3), 18 th row	<p>Technical: Change the cooling coil capacity due to progress of the detailed engineering design (additional design margin)</p> <p>Change “6,000” to “10,000”</p>
9.4-54	Table 9.4.5-1 (Sheet 3 of 3), 20 th row	<p>Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.5</p>
9.4-54	Table 9.4.5-1 (Sheet 3 of 3), 28 th row	<p>Technical: Change the cooling coil capacity due to progress of the detailed engineering design (additional design margin)</p> <p>Change “24,000” to “30,000”</p>
9.4-54	Table 9.4.5-1 (Sheet 3 of 3), 30 th row	<p>Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.5</p>
9.4-54	Table 9.4.5-1 (Sheet 3 of 3), 38 th row	<p>Technical: Change the cooling coil capacity due to progress of the detailed engineering design (additional design margin)</p> <p>Change “12,000” to “30,000”</p>
9.4-54	Table 9.4.5-1 (Sheet 3 of 3), 40 th row	<p>Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.5</p>
9.4-55	Table 9.4.6-1 (Sheet 1 of 2), 35 th and 37 th row	<p>Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.5</p>
9.4-56	Table 9.4.6-1 (Sheet 2 of 2), 8 th and 10 th row	<p>Editorial: Remove “(See COL item 9.4(4))”. Because the statement of this COL applicant action is described in Subsection 9.4.5.2.5</p>
9.4-56	Table 9.4.6-1 (Sheet 2 of 2), 18 th row	<p>Editorial: Remove (See COL item 9.4(3)) because of being resolved in DCD Revision 1.</p>
9.4-56	Table 9.4.6-1 (Sheet 2 of 2), 19 th row	<p>Editorial: Replace “95% (See COL item 9.4(3))” with 95% minimum” because of being resolved in DCD Revision 1.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change												
9.4-56	Table 9.4.6-1 (Sheet 2 of 2), 24 th thro 29 th row	Editorial: Correct typographical error as follows: <table border="0"> <tr> <td>Number of Units</td> <td align="right">1</td> </tr> <tr> <td>Equipment Class</td> <td align="right">5</td> </tr> <tr> <td>Seismic Category</td> <td align="right">Non-Seismic</td> </tr> <tr> <td>Unit Airflow Capacity, cfm</td> <td align="right">30,000</td> </tr> <tr> <td>Unit Fan Type</td> <td align="right">Centrifugal</td> </tr> <tr> <td>HEPA Filter Efficiency</td> <td align="right">99.97%, 0.30% micron particles</td> </tr> </table>	Number of Units	1	Equipment Class	5	Seismic Category	Non-Seismic	Unit Airflow Capacity, cfm	30,000	Unit Fan Type	Centrifugal	HEPA Filter Efficiency	99.97%, 0.30% micron particles
Number of Units	1													
Equipment Class	5													
Seismic Category	Non-Seismic													
Unit Airflow Capacity, cfm	30,000													
Unit Fan Type	Centrifugal													
HEPA Filter Efficiency	99.97%, 0.30% micron particles													
9.4-57	Figure 9.4.1-1	Editorial: Replaced the flow diagram due to changing the description of room												
9.4-58	Figure 9.4.3-1	Editorial: Replace the flow diagram due to adding more detail system information.												
9.4-59	Figure 9.4.3-2	Editorial: Replace the flow diagram due to changing the description of room												
9.4-60	Figure 9.4.3-3	Editorial: Replaced others HVAC system flow diagram with "Main steam/feedwater piping area HVAC system" flow diagram.												
9.4-64	Figure 9.4.5-1	Editorial: Replaced the flow diagram due to changing the duct routing plan.												
9.4-65	Figure 9.4.5-2	Technical: Revised the Class 1E electrical room HVAC system due to changing general arrangement.												
9.4-66	Figure 9.4.5-3	Editorial: Replace the flow diagram due to correct the Tag No. of the motor operated damper.												
9.4-68	Figure 9.4.5-5 (Sheet 1of 2)	Editorial: Replace the flow diagram (1 of 2) due to correct the Tag No. of HVAC equipment.												
9.4-69	Figure 9.4.5-5 (Sheet 2of 2)	Editorial: And Replace the flow diagram (2 of 2) due to removing a cooling coil from each charging pump room AHU.												
9.5-1	9.5.1, first paragraph	Editorial: Use appropriate word. Change: "will" to "dose".												

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9.5-2	9.5.1, second paragraph	<p>Editorial: Change to more appropriate description.</p> <p>Change: “design and defers specific topics and implementation of program elements such as establishment of the fire brigade, implementation of a combustible and ignition source control program, development of inspection and test procedures and pre-fire plans, and provision of portable extinguishing equipment as elements that are to be addressed by the COL Applicant. COL item 9.5(1) specifically addresses the COL Applicant’s responsibilities in this area.” to “design. The COL Applicant is responsible to provide the specific topics and implementation of program elements such as establishment of the fire brigade, implementation of a combustible and ignition source control program, development of inspection and test procedures and pre-fire plans, and provision of portable extinguishing equipment as elements.(See COL item 9.5(1))”</p>
9.5-2	9.5.1.1, first paragraph, fifth bullet	<p>Editorial: Use appropriate word.</p> <p>Change: "will" to "dose".</p>
9.5-3	9.5.1.1, forth paragraph	<p>Editorial: Delete unnecessary description.</p> <p>Delete “The COL Applicant identifies the specific National Fire Protection Association (NFPA) codes and standards used for fire protection system design or features and the specific “code of record” in effect within 6-months of the COL Application submittal (See COL item 9.5(2)).”</p>
9.5-6	9.5.1.2, ninth paragraph	<p>Editorial: Use appropriate word.</p> <p>Change: "will occur" to "occurs"</p>
9.5-6	9.5.1.2, ninth paragraph	<p>Editorial: Change to more appropriate description.</p> <p>Change: “will also start on low pressure” to “also starts on a low-pressure signal”.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-6	9.5.1.2, ninth paragraph	<p>Editorial: Change to referring appropriate subsection.</p> <p>Change: "The specific design of the fire water supply system including fire pump specifics, water source, quantity and quality, backup power requirements, and appropriate site-specific design is addressed by the COL Applicant (see COL Item 9.5 (2))." to "The specific design of the fire protection water supply system is described in Subsection 9.5.1.2.2.".</p>
9.5-7	9.5.1.2.1, Plant Arrangement, forth paragraph, first bullet	<p>Editorial: Use appropriate word.</p> <p>Change: "will be" to "is".</p>
9.5-7	9.5.1.2.1, Plant Arrangement, forth paragraph, second bullet	<p>Editorial: Use appropriate word.</p> <p>Change: "will remain" to "remain".</p>
9.5-8	9.5.1.2.1, Plant Arrangement, forth paragraph, second bullet	<p>Editorial: Change to appropriate word.</p> <p>Change: "flash arrestor" to "flame arrestor".</p>
9.5-8	9.5.1.2.1, Plant Arrangement, seventh paragraph	<p>Editorial: Delete unnecessary description.</p> <p>Delete "The COL Applicant updates the FHA as required to address site-specific features and develops pre-fire plans for each fire area/fire zone to facilitate fire brigade training and response to fire events. (See COL Items 9.5(2) and 9.5(1))."</p>
9.5-8	9.5.1.2.1, Electrical Cable Design, Routing, and Separation, third paragraph	<p>Editorial: Use appropriate word.</p> <p>Change: "will have" to "has".</p>
9.5-9	9.5.1.2.1, Control of Combustible Materials, second paragraph	<p>Editorial: Delete unnecessary word.</p> <p>Delete "(COL item 9.5(2))".</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-9	9.5.1.2.1, Control of Combustible Materials, fifth paragraph	<p>Editorial: Change to appropriate word.</p> <p>Change: "ensure" to "assure".</p>
9.5-9	9.5.1.2.2, first paragraph	<p>Editorial: Change to appropriate description.</p> <p>Change: "The COL Applicant provide a fire water supply system designed in accordance with the guidance of RG 1.189 (Ref. 9.5.1-12) and the applicable NFPA codes and standards. The fire protection water supply system shall be sized such that it contains sufficient water for two hours operation of the largest US-APWR sprinkler system plus a 500 gpm manual hose stream allowance to support fire suppression activities. Redundant water supply capability shall be provided." to</p> <p>"The fire water supply system is designed in accordance with the guidance of RG 1.189 (Ref. 9.5.1-12) and the applicable NFPA codes and standards. The fire protection water supply system is sized such that it contains sufficient water for two hours operation of the largest US-APWR sprinkler system plus a 500 gpm manual hose stream allowance to support fire suppression activities. Redundant water supply capability is provided.</p>
9.5-9	9.5.1.2.2, first paragraph	<p>Editorial: Change to correct name.</p> <p>Change: "reactor containment cavity" to " reactor cavity".</p>
9.5-10	9.5.1.2.2, second paragraph	<p>Editorial: Change to appropriate description.</p> <p>Change: "the fire pump arrangement provides at lease one diesel or electric fire pump to be the lead fire pump and one or more fire pumps for secondary service. Adequate number of fire pump will be provided to allow one pump to be out of service for maintenance or other reason and still maintain capability to provide 100% of system flow requirements. An electric-motor driven jockey pump (or acceptable pressure source) will be used to keep the fire water system full of water and pressurized, as required." To</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9.5-10	9.5.1.2.2, second paragraph	<p>“the fire pump arrangement provides one diesel or electric fire pump to be the lead fire pump and another fire pumps for secondary service. Each pump is capable of providing 100% of the system flow requirements. This provides complete redundancy and allows one pump to be out of service for maintenance. An electric-motor driven jockey pump (or acceptable pressure source) is used to keep the fire water system full of water and pressurized, as required.”</p>
9.5-10	9.5.1.2.2, third paragraph	<p>Editorial: Change to appropriate description.</p> <p>Change: “The COL Applicant provides a fire protection water supply system that complies with the guidance of RG 1.189, Rev. 1, Position 3.2 (see COL item 9.5(2)).” to “The COL Applicant is responsible to designate a specific fire protection water supply system that complies with the guidance of RG 1.189 (Ref. 9.5.1-12) and the applicable NFPA codes and standards (See COL item 9.5(2)).”.</p>
9.5-10	9.5.1.2.3, first paragraph	<p>Editorial: Change to appropriate description.</p> <p>Change: “Fire protection water will be distributed by an underground yard main loop, designed in accordance with the guidance of NFPA 24 (Ref. 9.5.1-16). The yard main will include a building interior header that distributes water to suppression systems within the main plant buildings. Post-indicator valves will provide sectionalized control and permit isolation of portions of the yard main for maintenance or repair.” to</p> <p>“Fire protection water is distributed by an underground yard main loop, designed in accordance with the guidance of NFPA 24 (Ref. 9.5.1-16). The yard main also includes a building interior header that distributes water to suppression systems within the main plant buildings. Post-indicator valves provide sectionalized control and permit isolation of portions of the yard main for maintenance or repair.”</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9.5-10	9.5.1.2.3, second paragraph	Editorial: Use appropriate word. Change: "will be" to "are"
9.5-10	9.5.1.2.3, forth paragraph	Editorial: Use appropriate word. Change: "will be" to "are"
9.5-10	9.5.1.2.3, seventh paragraph	Editorial: Change to appropriate description. Change: "Specific design of the fire main system is designated as a COL Applicant activity (COL Item 9.5(2))." with "The COL Applicant is responsible to designate a specific design of the fire main system (COL Item 9.5(2))."
9.5-11	9.5.1.2.4, Standpipe and Hose Systems, second paragraph	Editorial: Clarify the COL activity. Add "The COL Applicant is responsible to provide the specific alternate safety-related water source (See COL Item 9.5(2))."
9.5-13	9.5.1.2.5, Automatic Water Suppression Systems, third paragraph, forth bullet	Editorial: Use appropriate word. Change: "will be" to "are"
9.5-13	9.5.1.2.5, Automatic Water Suppression Systems, third paragraph, forth bullet	Editorial: Change to appropriate name. Change: "MCR administrative areas" with "MCR staff room".
9.5-13	9.5.1.2.5, Automatic Gaseous Suppression Systems	Technical : reflect the design progress. Delete "In addition, a local application carbon dioxide suppression system is used on the main turbine, exciter, and generator bearings in the T/B."

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-14	9.5.1.2.7, second paragraph	Editorial: Use appropriate word. Change: “will provide” to “provides”.
9.5-14	9.5.1.2.7, third paragraph	Editorial: Use appropriate word. Change: “will purge” to “purges” and “will isolate” to “isolates”.
9.5-15	9.5.1.4, second paragraph	Editorial: Delete unnecessary description. Delete “The COL Applicant addresses specific procedures and the program to assure periodic testing during operation (COL Item 9.5(1)).”.
9.5-16	9.5.2, first paragraph	Editorial: Use appropriate word. Change: “interplant” to “intra-plant”.
9.5-16	9.5.2, second paragraph	Editorial: Use appropriate word. Change: “in the COL application” with “by the COL applicant”.
9.5-21	9.5.2.2.2, first paragraph	Editorial: Use appropriate word. Change: “in the COL application” with “by the COL applicant”.
9.5-22	9.5.2.2.2.2, second paragraph	Editorial: Delete unnecessary description. Delete the second sentence.
9.5-23	9.5.2.2.4.2, second paragraph last bullet	Editorial: Use appropriate word. Change: “Additional channels, if assigned by plant operator (as described in the COL application)” to “Additional channels are assigned by the plant operator as necessary for select plant locations”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-24	9.5.2.2.4.3, first paragraph	<p>Editorial: add the appropriate description.</p> <p>Add “Non-portable communications equipment remains operable from independent power sources in the event of loss of normal power modes.”</p>
9.5-24	9.5.2.2.5.2 second paragraph	<p>Editorial: Use appropriate word.</p> <p>Change: “in the COL application” with “by the COL applicant”.</p>
9.5-24	9.5.2.2.5.2 second paragraph	<p>Editorial: Use appropriate word.</p> <p>Change: “The effectiveness of the over all Emergency Response Plan pursuant to 10 CFR 50.47 (b)(8) is addressed in the COL application (Ref. 9.5.2-2).” with “The effectiveness of the over all Emergency Response Plan pursuant to 10 CFR 50.47 (b)(8) (Ref. 9.5.2-2) is addressed by the COL applicant.”</p>
9.5-24	9.5.2.2.5.2 third paragraph	<p>Editorial: Use appropriate word.</p> <p>Change: “interplant” to “intra-plant”.</p>
9.5-24	9.5.2.2.5.2 last paragraph	<p>Editorial: Use appropriate word.</p> <p>Change: “in the COL application” with “by the COL applicant”.</p>
9.5-24 9.5-25	9.5.2.3 Safety Evaluation	<p>Editorial: add the appropriate description.</p> <p>Add the following subsection;</p> <p>“9.5.2.3 Safety Evaluation</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-24 9.5-25	9.5.2.3 Safety Evaluation	Plant communication systems are not required to mitigate a DBA, however they are important to safety. These systems are needed to support effective normal and off-normal operations as well as to coordinate on-site and off-site responses during abnormal or emergency events. The off-site communications systems within the one-site operations support center provide for emergency response following a design basis accident. Redundant communication paths and technologies are employed to minimize the possibility of complete loss of on-site and off-site communications.”
9.5-25	9.5.2.4 Inspection and Testing Requirements	Editorial: Re-numbering Re-numbered this subsection from 9.5.2.3 to 9.5.2.4.
9.5-25	9.5.2.4, last paragraph	Editorial: add the appropriate description. Add the following subsection; Individual test of communications among the control room, TSC, EOF, principal state and local emergency operations centers and radiological field assessment teams are performed. This is in conformance to the requirements of 10 CFR 50.47 (b)(6).
9.5-25	9.5.2.5 Instrumentation Requirements	Editorial: add the appropriate description. Add the following subsection; “9.5.2.5 Instrumentation Requirements No special instrumentation is required. The systems use high grade industrial components and are redundantly configured to assure continuous communications capability both on-site and off-site.”

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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<p>9.5-34</p>	<p>9.5.4.2.3, third paragraph</p>	<p>Editorial: Add the supplemental information.</p> <p>Add “Samples of new fuel oil are quality tested prior to replenishing the fuel oil storage tanks. In addition, samples of fuel oil in the storage tanks are periodically tested to monitor for contamination and degradation. Fuel oil samples are tested for water and sediment content, viscosity, specific gravity, and impurity level in accordance with ASTM D975 requirements and manufacturer’s recommendations.”</p>
<p>9.5-35</p>	<p>9.5.4.2.4, last paragraph</p>	<p>Editorial: Delete unnecessary description.</p> <p>Delete “Site-specific conditions determine the requirements for oil supply and emergency fuel delivery by the COL applicant.”</p>
<p>9.5-35</p>	<p>9.5.4.3, third paragraph</p>	<p>Editorial: Change to appropriate description</p> <p>Change: “The fuel oil storage tank compartment is designed to seismic category I requirements. Therefore, the FOS is protected from environmental effects (tornado, flooding, etc.).” to</p> <p>“The fuel oil storage tank compartment is designed to seismic category I requirements. The fuel oil storage tanks are separately located underground in concrete vaults and are protected from damage by missiles (tornados and hurricanes), external floods, and other environmental factors. The fill and sample connections are located at grade elevation with locked-closed isolation valves and are capped and locked to prevent entry of moisture. The fuel oil storage tanks are vented to atmosphere, and the vent connection is located above the grade elevation. The vent is located above the maximum flood level. The fuel oil storage tanks vents are fitted with a flame arrestor to protect the tanks from an exterior fire. The end of the goose necked vent is covered with a fine meshed screen to prevent insects and debris from entering the vent.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-35	9.5.4.3, third paragraph	The seismic category I portions of GTG fuel oil piping is routed in tunnels between the storage tank concrete vaults and the power source building.”.
9.5-36	9.5.4.4, fifth paragraph	<p>Editorial: Add the supplemental information.</p> <p>Add “Prior to addition of new fuel oil into the storage tanks, samples will be tested for specific gravity, cloud point, and viscosity and will be visually inspected for appearance in accordance with ASTM D975 limits.”</p>
9.5-38	9.5.6.2.1.1	<p>Editorial: Delete unnecessary description.</p> <p>Delete “each starting system”.</p>
9.5-43	9.5.8.2.1, (1)	<p>Editorial: Change to appropriate description</p> <p>Change: “A combustion air intake and exhaust system consisting of an air intake filter, intake silencer, turbine exhaust silencer, and associated piping and flexible connections.” to</p> <p>“A combustion air intake and exhaust system consisting of air filter, silencer, and associated piping and flexible connections.”</p>
9.5-43	9.5.8.2.2.2	<p>Editorial: Change to appropriate description</p> <p>Change: “Each GTG package contains a combustion air intake filter.” to</p> <p>“A combustion air intake filter is installed in each GTG enclosure”.</p>
9.5-43	9.5.8.2.2.3, first sentence	<p>Editorial: Change to appropriate description.</p> <p>Change: “Silencers are installed in the intake system to minimize the noise level within the GTG compartment.” to</p> <p>“A Silencer is installed in the intake system to minimize the noise level within the GTG enclosure.”.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>9.5-44</p>	<p>9.5.8.2.3</p>	<p>Editorial: Change to appropriate description</p> <p>Change: “Upon initiation of a GTG start signal, combustion air is drawn into the air intake filter and passes through the intake piping and silencer to the GT intake manifolds.” to</p> <p>“Upon initiation of a GTG start signal, combustion air is drawn into the air intake piping to the GT intake manifolds.”</p>
<p>9.5-44</p>	<p>9.5.8.3, A, fifth paragraph</p>	<p>Editorial: Change to appropriate description</p> <p>Delete” The combustion air intake filter for each GTG is located in a separate enclosure on the roof of the PS/B and is protected against tornado missiles.”.</p> <p>Change: “The turbine exhaust discharges above the roof of the PS/B, and the portion of the exhaust pipe above the roof is protected by a guard structure against precipitation and tornado missiles.” to</p> <p>“The turbine intake and exhaust openings above the roof of the PS/B, and the portion of the piping/ducts above the roof is protected by a guard structure against precipitation and tornado missiles.”</p>
<p>9.5-44</p>	<p>9.5.8.3, A, fifth paragraph</p>	<p>Editorial: Change to appropriate description</p> <p>Replace: “The turbine exhaust is located greater against 50 ft. from the engine air intake, thereby minimizing the chances of the turbine exhaust being drawn into the combustion air intake.” with</p> <p>“The turbine exhaust is located appropriately away from the engine air intake, thereby minimizing the chances of the turbine exhaust being drawn into the combustion air intake.”</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-46	9.5.9, COL 9.5(6)	<p>Editorial: Change to appropriate description</p> <p>Change: "The COL Applicant addresses the fire response communication system requirements delineate in 10 CFR 73.55(e) such that a single act cannot remove onsite capability of calling for assistance and also as redundant system during onsite emergency crisis." to</p> <p>"The COL Applicant addresses connections to the Technical Support Center from where communications networks are provided to transmit information pursuant to the requirements delineated in 10 CFR 50 Appendix E, Part IV.E.9."</p>
9.5-46	9.5.9, COL 9.5(7)	<p>Editorial: Change to appropriate word</p> <p>Change: "10 CFR 73.45(g)(4)(i) (ii)" to "10 CFR 73.45(g)(4)(i) and (ii)"</p>
9.5-46	9.5.9, COL 9.5(9)	<p>Editorial: Change to appropriate word</p> <p>Change: "10 CFR 73.55(e)" to "10 CFR 73.55(f)"</p>
9.5-46	9.5.9, COL 9.5(9)	<p>Editorial: Change to appropriate word</p> <p>Change: " the fire response communication system" to "the emergency communication system"</p>
9.5-46	9.5.9, COL 9.5(10)	<p>Editorial: Delete unnecessary description.</p> <p>Delete "The COL Applicant addresses the requirements for oil supply and emergency fuel delivery".</p>
9.5-52 to 9.5-151	Table 9.5.1-1 and Table 9.5.1-2	<p>Editorial: Change to the appropriate table number.</p> <p>Change: "Table 9.5-1" to "Table 9.5.1-1" and "Table 9.5-2" to "Table 9.5.1-2"</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-52	Table 9.5.1-1 (Sheet 1 of 46) Last row Position Number 1.4	Editorial: Delete unnecessary description. Delete "Documentation is filed with the COL Applicant. COL Item 9.5(2)".
9.5-53	Table 9.5.1-1 (Sheet 2 of 46) Third row Position Number 1.6.1a	Editorial: This item is COL item. So unnecessary description is deleted. Delete "DCD Section 9.5.11 and Appendix 9A written by personnel holding professional member grade status in Society of Fire Protection Engineers."
9.5-61	Table 9.5.1-1 (Sheet 10 of 46) Position Number 1.8.5	Editorial: Change to the correct regulatory position that consist with RG 1.189 Rev.1. Delete row of position number 1.8.5 and following position number is changed. Change the position number "1.8.6" to "1.8.5", "1.8.7" to "1.8.6"and "1.8.8" to "1.8.7"
9.5-66	Table 9.5.1-1 (Sheet 15 of 46) forth row Position Number 3.3.2	Technical: reflect the design progress. Delete "A local application CO ₂ System is used for turbine, exciter and generator bearing in the TB where no adverse safe-shutdown or personnel impact is expected."
9.5-66	Table 9.5.1-1 (Sheet 15 of 46) last row Position Number 3.3.2.1	Change: "The only Carbon Dioxide extinguishing system used for the US-APWR plant is local application for turbine, exciter and generator bearings." to "No Carbon dioxide extinguishing systems are used for the US-APWR plant." in column of conformance.
9.5-66	Table 9.5.1-1 (Sheet 15 of 46) last row Position Number 3.3.2.1	And delete "The local application system is designed using guidance from NFPA 12. in column of remarks.
9.5-91	Table 9.5.1-1 (Sheet 40 of 46) Position Number 6.2	Editorial: this position is informational statement. Delete the statement of remarks.

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
9.5-96	Table 9.5.1-1 (Sheet 45 of 46) Position Number 8.5	Editorial: Change to correct description. Change: "Conform" to "N/A" in column of conformance, and "COL Item 9.5(1) shall incorporate the objectives and guidance in that applicable regulations and RG 1.189, Rev. 1 into the fire protection program." to "The US-APWR is light-water reactor." in column of remarks.
9.5-152	Table 9.5.4-1	Editorial: Delete unnecessary column Delete "Column of Design Code".
9.5-153	Table 9.5.6-1	Editorial: Change to appropriate information. Change: Capacity of compressor, 706 cu-ft/hr to 776.9 cu-ft/hr. Horsepower of driver, 30 to 7.5. Revolutions per minute of driver, 1800 to 1200. Capacity of air receiver, 106 cu-ft to 318 cu-ft.
9.5-154	Table 9.5.7-1	Editorial: Delete unnecessary column Delete "type". Change : "Seismic design Category : 1" to "Seismic Category : I"
9.5-159	Figure 9.5.8-1	Editorial: Change to appropriate sketches. Delete intake filter and silencer.
9A-2	9A.2, first paragraph, forth bullet	Editorial: These hazard are address in Chapter 2. Delete "adjacent industrial facilities or transportation systems, natural vegetation". Change: "a site specific hazard and are addressed by the COLA applicant" with "are identified". Delete "by the COLA applicant".

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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9A-2	9A.2, first paragraph, eighth bullet	<p>Editorial: Change to appropriate description.</p> <p>Delete “If site specific design involves use of such barriers, the COLA applicant will address the use and qualification of non-structural fire barriers.”.</p>
9A-4	9A.2.1, forth paragraph	<p>Editorial: These descriptions are presented in 9A.3.</p> <p>Delete “These fire areas/zones and their boundaries are illustrated on figures 9A-1 through 9A-27 and are listed in Table 9A-2.” and “The fire hazard analysis for each zone is summarized in Table 9A-3 on a fire zone by fire zone basis.”.</p>
9A-5	9A2.2	<p>Editorial: Delete the unnecessary explanation.</p> <p>Delete “This value is identified as the “anticipated” fire loading in Table 9A-3.”.</p>
9A-5	9A2.2	<p>Editorial: Delete unnecessary explanation.</p> <p>Delete “in Table 9A-3”.</p>
9A-5	9A2.3	<p>Editorial: Use more appropriate word.</p> <p>Change: “heavy” with “reinforced concrete”.</p>
9A-6	9A2.4, Combustible Loading Tabulation	<p>Editorial: Delete unnecessary explanation.</p> <p>Delete “Table 9A-3”.</p>
9A-9	9A2.7.1, Independence of Affected Fire Areas	<p>Editorial: Delete incorrect description.</p> <p>Delete “and in one of the non fire impacted safety trains”.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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<p>9A-11</p>	<p>9A2.7.1, Associated Circuits and Spurious Actuation of Equipment</p>	<p>Editorial : Change to appropriate description as safety-shutdown analysis methodology.</p> <p>Change “fire-induced transient/mitigation equipment and fire-induced reactor transient events to identify vulnerable areas.” to “achieve and maintain safe-shutdown equipment to identify vulnerable areas.”</p>
<p>9A-12</p>	<p>9A2.7.1, Multiple High-Impedance Faults</p>	<p>Editorial: Change to correct description.</p> <p>Change: “However, if multiple high-impedance faults occur simultaneously that affect currents coming from the same power source, there is potential for the sum of currents from these faults to trip the main circuit breaker feeding the bus. The impact and potential for multiple high impedance faults are considered in the evaluation of the safe shutdown capability.” with “In this plant design, Section 5.4.3.1 requirements of RG 1.189 Rev.1, which specifies to apply IEEE Standard 242, “IEEE Recommended Practices for Protection and Coordination of Industrial and Commercial Power systems”, are applied in the design of feeder fuse and breaker coordination. This guidance is expected to be effective to prevent the multiple high-impedance faults from occurring. Therefore, it is assumed that, if multiple high-impedance faults occur simultaneously that affect currents coming from the same power source is prevented.”.</p>
<p>9A-13</p>	<p>9A2.7.1, Shutdown/Refueling Operations</p>	<p>Editorial: Delete unnecessary explanation. This is included in fire protection program.</p> <p>Delete “The COLA applicant will address work control aspects of assuring fire safety during shutdown/refueling operations.”.</p>

US-APWR DCD Chapter 9 Revision 0 to Revision 1 Change List

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<p>9A-14</p>	<p>9A.2.7.2 Safe Shutdown Methodology</p>	<p>Editorial: Change to correct description.</p> <p>Delete “These Transfer Systems are installed in the four separate Safety I&C equipment rooms (one for each PSMS train to ensure fire protection and separation)”</p> <p>And replaced “located just outside of the Main Control Room.” with “located just outside of the Main Control Room and Remote Shutdown Console Room.”</p>
<p>9A-14 to end</p>	<p>Overall of 9A.3 Fire Hazard Analysis Results, Table 9A-1,9A-2 and 9A-3, Figure 9A-1 through 9A-27</p>	<p>Overall of subsection 9A.3, Table 9A-1,9A-2 and 9A-3, Figure 9A-1 through 9A-27 are revised to reflect the followings.</p> <p>Technical: Reflect the changes of plant general arrangement. (e.g. battery room, battery charger room, remote shutdown console room).</p> <p>Technical: Reflect the engineering progress.</p> <p>(e.g. cable raceway route)</p> <p>Editorial: Unified description in FHA.</p> <p>Editorial: Change to correct description.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.2-1	Section 10.2.1.1 The first line of the second paragraph	Editorial First sentence is to be replaced by the following sentence. 'The T/G could be potential source of high-energy turbine missiles, which could cause damage to safety-related equipment of systems.'
10.2-1	Section 10.2.1.2 The second sentence of the fourth bullet	Editorial '.....and is also designed to fail with the T/G in a safe position.' shall be replaced by 'and is also designed to trip the T/G at the failure of the control system.'
10.2-2	Section 10.2.2.1 The first line of the first paragraph	Editorial 'The T/G is a tandem compound.....' shall be replaced by 'The T/G is an 1800rpm tandem compound.....'
10.2-2	Section 10.2.2.1 The last sentence of the last paragraph	Editorial 'See Section 3.2.....' shall be replaced by 'See Section 3.7.....'.
10.2-2	Section 10.2.2.2 The first sentence of the first paragraph	Editorial First sentence of the first paragraph 'The turbine is an 1800 rpm.....with 74-inch last rotating blades:' shall be deleted.
10.2-3	Section 10.2.2.2.1 The first sentence of the fifth paragraph	Editorial 'Steam' shall be added at the top of the sentence.
10.2-3	Section 10.2.2.2.2 The first sentence of the second paragraph	Editorial The first sentence 'The HPT rotor is machined from an alloy steel forging' shall be replaced by 'The HPT rotor is machined from an alloy steel forging (mono block design).'
10.2-4	Section 10.2.2.2.5 The first paragraph	Editorial First paragraph shall be replaced by the following sentence. 'There are three double flow LPTs with 74-inch last stage blades. Reheated steam enters each of the LPTs through the RSV and the IV and expands in the blade path axially through stationary and rotating blades'

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.2-4	Section 10.2.2.2.5 Between fourth and fifth paragraph	Editorial At the top of the fourth paragraph, the following sentence shall be added; 'The LPT rotors are machined from an alloy steel forging (mono block design).'
10.2-7	Section 10.2.2.3.1.3 The third sentence of the first paragraph	Editorial 'When the turbine is started,
10.2-8	Section 10.2.2.3.1.5 The second sentence of the second paragraph	Editorial The sentence 'The failure of a single valve' shall be replaced by 'The failure of a single OPC solenoid valve'.
10.2-20	Section 10.2.3.5 The third sentence of the first bullet	ISI interval of the high-pressure turbine is changed from 'about 8 years' to 'about 10 years' for the purpose of the consistency with the ISI interval of the low-pressure turbine.
10.2-20	Section 10.2.3.5 The first sentence of the second bullet	First sentence of the second bullet 'At least the main steam stop valves, main steam control valves, reheat stop valves and intercept valves are dismantled.....' shall be replaced by 'At least one main stop valve, one main steam control valve, one reheat stop valve and one intercept valve are dismantled
10.2-20	Section 10.2.3.5 The last sentence of the second bullet	The last sentence of the second bullet 'A combined license holder recommendation for a valve inspection frequency.....by missile generation probability calculations.' shall be deleted.
10.2-20	Section 10.2.3.5 Additional sentence added at the last of this section	The following sentences shall be added at the end of this section. 'The Combined License Applicant is to develop turbine maintenance and inspection procedure and then to implement prior to fuel load. Plant startup procedure including warm-up time will be completed therein.'
10.2-21	Section 10.2.4 The last sentence of the last paragraph	Editorial 'Discussion of the radiological aspects.....are presented in Chapter 11 and 12.' shall be replaced by 'Discussion of the radiological aspects..... are presented in Chapter 11.' 'Chapter 12' shall be deleted.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.2-21	Section 10.2.5 COL information sentence revised	COL information sentences shall be changed as follows; <i>'The Combined License Applicant is to develop turbine maintenance and inspection procedure and then to implement prior to fuel load. Plant startup procedure including warm-up time will be completed therein.'</i>
10.2-21	Section 10.2.6 References	Reference number of item 10.2-9 and 10.2-10 changed. MUAP-070028 → MUAP-07028 MUAP-070029 → MUAP-07029
10.2-23	Table 10.2-1	Editorial Appearance is changed (from right aligned lined to center aligned) Manufacturer's name is changed from 'Mitsubishi' to 'Mitsubishi Heavy Industries, Ltd.'
10.3-1	10.3 Main Steam Supply System	Changed "steam converter" to "auxiliary steam supply system (ASSS)". Technical: The steam converter is deleted in the 10.4.11. The ASSS uses main steam or turbine extracting steam as a auxiliary steam.
10.3-6	10.3.2.2.1 Main Steam Delivery	Changed "steam converter" to "ASSS". Technical: The steam converter is deleted in the 10.4.11. The ASSS uses main steam or turbine extracting steam as a auxiliary steam.
10.3-7	10.3.2.3.2 Main Steam Safety Valves	Inserted "The COL applicant is to address the actual throat area of the MSSVs." after sixth paragraph. Technical: The information for overpressure protection comonents is required by R.G 1.206 C.I. 5.2.2. Refer subsection 5.2.2.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-18	10.3.6.3 Flow-Accelerated Corrosion (FAC)	<p>Inserted "The Combined License Applicant is to address preparation of an FAC monitoring program for carbon steel portions of the steam and power conversion systems that contain water or wet steam." After the third paragraph.</p> <p>Editorial: The sentence being replaced in the FSAR is inserted.</p>
10.3-18	10.3.7 Combined License Information	<p>Added "COL 10.3(2) Safety and Relief valve information The Combined License Applicant is to address the actual throat area of the MSSV."</p> <p>Technical: The information for overpressure protection components is required by R.G 1.206 C.I. 5.2.2. Refer subsection 5.2.2.</p>
10.3-21	Table 10.3.2-2 Main Steam System Valves (Sheet 1 of 3) Main Steam Safety Valve	<p>Added "design temperature" to this table.</p> <p>Technical: The lack of technical information is added.</p>
10.3-22	Table 10.3.2-2 Main Steam System Valves (Sheet 2 of 3) Main steam depressurization valve, main steam relief valve block valve, main steam isolation valve, main steam check valve, main steam bypass isolation valve.	<p>Added "number per main steam line" to this table.</p> <p>Technical: The lack of technical information is added.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-26	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 1 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 1 to 4 → combined; labeled as item 1.</p> <table border="1"> <thead> <tr> <th>Description of component</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Main Steam Isolation Valve (MSIV) NMS-AOV-515A,B,C,D</td> <td>Isolates each main steam line. Isolates containment.</td> <td>During power operation</td> <td>Fails closed or fails to open on demand</td> <td>Valve position Indication on the main control room</td> <td>No safety-related impact on plant. Plant goes to safe shutdown condition.</td> </tr> <tr> <td>Normally open, fail closed air-operated valve</td> <td></td> <td>Steam System Piping Failure Steam Generator Tube Rupture Loss of Coolant Accident Safe shutdown</td> <td>Solenoid valve for actuating the MSIV fails to open on demand</td> <td>Valve testing is done in accordance with the Inservice Testing Program. If there are any problems with the solenoid valve, the failure is detected during the testing.</td> <td>No safety-related impact on plant. MSIV is actuated by a separate train of solenoid valves with redundancy and different class 1E power bus. Failure of either train of solenoid valves does not impair isolation function of MSIV.</td> </tr> </tbody> </table> <p>Technical: The main steam isolation valve at US-APWR is swing type check valve, and usually, the valve disc is normally opened forcibly by instrumental air, however, by discharging instrumental air, the valve closes on its own by the self-weight of the valve disc and the spring force. Therefore, we do not assume single failure considering the body of main steam isolation valve as the static equipment, and single failure is dealt with only for the solenoid valve which is used for the discharging of instrumental air for closing the valve by making it redundant.</p> <p>Changed the name of plant condition.</p>	Description of component	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Main Steam Isolation Valve (MSIV) NMS-AOV-515A,B,C,D	Isolates each main steam line. Isolates containment.	During power operation	Fails closed or fails to open on demand	Valve position Indication on the main control room	No safety-related impact on plant. Plant goes to safe shutdown condition.	Normally open, fail closed air-operated valve		Steam System Piping Failure Steam Generator Tube Rupture Loss of Coolant Accident Safe shutdown	Solenoid valve for actuating the MSIV fails to open on demand	Valve testing is done in accordance with the Inservice Testing Program. If there are any problems with the solenoid valve, the failure is detected during the testing.	No safety-related impact on plant. MSIV is actuated by a separate train of solenoid valves with redundancy and different class 1E power bus. Failure of either train of solenoid valves does not impair isolation function of MSIV.
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-26	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 1 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 5 to 8 → combined; labeled as item 2.</p> <table border="1"> <thead> <tr> <th>Descripti on of compon ent</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Main Steam Depressur ization Valve (MSDV)</td> <td>Provide for controlled removal of reactor decay heat (in conjunctio n with the EFWS).</td> <td>During power operation</td> <td>Fails open or fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Analysis shows no adverse effect assuming larger steam discharge rate than design rate of the valve.</td> </tr> <tr> <td>NMS- MOV- 508A,B,C, D Normally closed, fail as is motor- operated valve</td> <td></td> <td>Steam Generator Tube Rupture Safe shutdown</td> <td>Fails to open on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Valves on intact SG steam lines provide RCS cooling and plant shutdown.</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Descripti on of compon ent	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Main Steam Depressur ization Valve (MSDV)	Provide for controlled removal of reactor decay heat (in conjunctio n with the EFWS).	During power operation	Fails open or fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Analysis shows no adverse effect assuming larger steam discharge rate than design rate of the valve.	NMS- MOV- 508A,B,C, D Normally closed, fail as is motor- operated valve		Steam Generator Tube Rupture Safe shutdown	Fails to open on demand	Valve position indication on the main control room	No safety-related impact on plant. Valves on intact SG steam lines provide RCS cooling and plant shutdown.
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-26	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 1 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 9 to 12 → combined; labeled as item 3.</p> <table border="1"> <thead> <tr> <th>Description of component</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Main Steam Relief Valve (MSRV) NMS-PCV-465,475,485,495 Normally closed, fail closed air-operated valve</td> <td>-</td> <td>During power operation</td> <td>Fails open or fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Analysis shows no adverse effect assuming larger steam discharge rate than design rate of the valve.</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Description of component	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Main Steam Relief Valve (MSRV) NMS-PCV-465,475,485,495 Normally closed, fail closed air-operated valve	-	During power operation	Fails open or fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Analysis shows no adverse effect assuming larger steam discharge rate than design rate of the valve.
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-26	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 1 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 13 to 16 → combined; labeled as item 4.</p> <table border="1"> <thead> <tr> <th>Description of component</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Main Steam Bypass Isolation Valve (MSBIV) NMS-HCV-3615A,B,C,D Normally closed, fail closed air-operated valve</td> <td>Isolates containment.</td> <td>Loss of Coolant Accident</td> <td>Fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Description of component	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Main Steam Bypass Isolation Valve (MSBIV) NMS-HCV-3615A,B,C,D Normally closed, fail closed air-operated valve	Isolates containment.	Loss of Coolant Accident	Fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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<p>10.3-27</p>	<p>Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 2 of 3)</p>	<p>Order of numbering of the following items are changed in the manner shown below: 17 to 20 → combined; labeled as item 5.</p> <table border="1"> <thead> <tr> <th>Description of component</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Main Steam Safety Valve (MSSVs) NMS-VLV-509A,B,C,D NMS-VLV-510A,B,C,D NMS-VLV-511A,B,C,D NMS-VLV-512A,B,C,D NMS-VLV-513A,B,C,D NMS-VLV-514A,B,C,D Normally closed</td> <td>Protect each SG from over pressurization.</td> <td>During power operation</td> <td>Spurious opening or failure to reset after opening</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Analysis shows no adverse effect assuming larger steam discharge rate than design flow rate of the valve.</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Description of component	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Main Steam Safety Valve (MSSVs) NMS-VLV-509A,B,C,D NMS-VLV-510A,B,C,D NMS-VLV-511A,B,C,D NMS-VLV-512A,B,C,D NMS-VLV-513A,B,C,D NMS-VLV-514A,B,C,D Normally closed	Protect each SG from over pressurization.	During power operation	Spurious opening or failure to reset after opening	Valve position indication on the main control room	No safety-related impact on plant. Analysis shows no adverse effect assuming larger steam discharge rate than design flow rate of the valve.
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-27	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 2 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 21 to 24 → combined; labeled as item 6.</p> <table border="1"> <thead> <tr> <th>Descripti on of compon ent</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Main Steam Relief Valve Block Valve (MSRVBV) NMS- MOV- 507A,B,C, DNormally opened, fail as is motor- operated valve</td> <td>Isolates containme nt.</td> <td>Loss of Coolant Accident</td> <td>Fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Descripti on of compon ent	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Main Steam Relief Valve Block Valve (MSRVBV) NMS- MOV- 507A,B,C, DNormally opened, fail as is motor- operated valve	Isolates containme nt.	Loss of Coolant Accident	Fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-27	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 2 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 25 to 28 → combined; labeled as item 7.</p> <table border="1"> <thead> <tr> <th>Descripti on of compon ent</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Main Steam Drain Line Isolation valve (MSDIV) NMS- MOV- 701A,B,C, D Normally opened, fail as is motor- operated valve.</td> <td>Isolates containme nt.</td> <td>Loss of Coolant Accident</td> <td>Fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Descripti on of compon ent	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Main Steam Drain Line Isolation valve (MSDIV) NMS- MOV- 701A,B,C, D Normally opened, fail as is motor- operated valve.	Isolates containme nt.	Loss of Coolant Accident	Fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-27	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 2 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 29 to 32 → combined; labeled as item 8.</p> <table border="1"> <thead> <tr> <th>Descripti on of compon ent</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Steam Generator Blowdown CV Isolation valve SGS- AOV- 001A,B,C, D Normally opened, fail closed air- operated valve.</td> <td>Isolates SG blowdown Isolates containme nt.</td> <td>Loss of Non- emergenc y AC Power Loss of Nominal Feedwate r Feedwate r System Pipe Break Steam Generator Tube Rupture Safe shutdown</td> <td>Fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Isolation is achieved by redundant steam generator blowdown isolation valve (SGS-AOV-002A,B,C,D).</td> </tr> <tr> <td></td> <td></td> <td>Loss of Coolant Accident</td> <td>Fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Descripti on of compon ent	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Steam Generator Blowdown CV Isolation valve SGS- AOV- 001A,B,C, D Normally opened, fail closed air- operated valve.	Isolates SG blowdown Isolates containme nt.	Loss of Non- emergenc y AC Power Loss of Nominal Feedwate r Feedwate r System Pipe Break Steam Generator Tube Rupture Safe shutdown	Fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Isolation is achieved by redundant steam generator blowdown isolation valve (SGS-AOV-002A,B,C,D).			Loss of Coolant Accident	Fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-28	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 3 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 33 to 36 → combined; labeled as item 9.</p> <table border="1"> <thead> <tr> <th>Description of component</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Steam Generator Blowdown Isolation Valve SGS-AOV-002A,B,C,D Normally opened, fail closed air-operated valve.</td> <td>Isolates SG blowdown</td> <td>Loss of Non-emergency AC Power Loss of Nominal Feedwater Feedwater System Pipe Break Steam Generator Tube Rupture Safe shutdown</td> <td>Fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Isolation is achieved by redundant steam generator blowdown CV isolation valve (SGS-AOV-001A,B,C,D).</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Description of component	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Steam Generator Blowdown Isolation Valve SGS-AOV-002A,B,C,D Normally opened, fail closed air-operated valve.	Isolates SG blowdown	Loss of Non-emergency AC Power Loss of Nominal Feedwater Feedwater System Pipe Break Steam Generator Tube Rupture Safe shutdown	Fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Isolation is achieved by redundant steam generator blowdown CV isolation valve (SGS-AOV-001A,B,C,D).
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.3-28	Table 10.3.3-1 Main Steam Supply System Failure Modes and Effects Analysis (Sheet 3 of 3)	<p>Order of numbering of the following items are changed in the manner shown below: 37 to 40 → combined; labeled as item 10.</p> <table border="1"> <thead> <tr> <th>Descripti on of compon ent</th> <th>Active Safety function</th> <th>Plant operating mode</th> <th>Failure mode(s)</th> <th>Method of failure detection</th> <th>Failure effect on system safety function capability</th> </tr> </thead> <tbody> <tr> <td>Steam Generator Blowdown Sample Isolation Valve SGS- AOV- 031A,B,C, D Normally opened, fail closed air- operated valve.</td> <td>Isolates SG blowdown Isolates containme nt.</td> <td>Loss of Non- emergenc y AC Power Loss of Nominal Feedwate r Feedwate r System Pipe Break Steam Generator Tube Rupture Safe shutdown</td> <td>Fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. The size of SG blowdown sample line is very small that no safety-related impact on plat.</td> </tr> <tr> <td></td> <td></td> <td>Loss of Coolant Accident</td> <td>Fails to close on demand</td> <td>Valve position indication on the main control room</td> <td>No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.</td> </tr> </tbody> </table> <p>Editorial: This item is combined for seeing easily. Changed the name of plant condition.</p>	Descripti on of compon ent	Active Safety function	Plant operating mode	Failure mode(s)	Method of failure detection	Failure effect on system safety function capability	Steam Generator Blowdown Sample Isolation Valve SGS- AOV- 031A,B,C, D Normally opened, fail closed air- operated valve.	Isolates SG blowdown Isolates containme nt.	Loss of Non- emergenc y AC Power Loss of Nominal Feedwate r Feedwate r System Pipe Break Steam Generator Tube Rupture Safe shutdown	Fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. The size of SG blowdown sample line is very small that no safety-related impact on plat.			Loss of Coolant Accident	Fails to close on demand	Valve position indication on the main control room	No safety-related impact on plant. Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.
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10.3-36	Figure 10.3-1 Main Steam Supply System Piping and Instrumentation Diagram (1/4)	Corrected this figure. Technical: Minor changes are added.																		
10.3-38	Figure 10.3-3 Main Steam Supply System Piping and Instrumentation Diagram (3/4)	Corrected this figure. Technical: Minor changes are added.																		

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.3-39	Figure 10.3-4 Main Steam Supply System Piping and Instrumentation Diagram (4/4)	Corrected this figure. Technical: Minor changes are added.
10.4-1	10.4	Editorial Added the title sentence "10.4 Other Features of Steam and Power Conversion System".
10.4-2	10.4.1.2.1, seventh paragraph	Editorial Replaced "The perforated" with "Perforated".
10.4-5 10.4-6	10.4.2.2.1, second Paragraph	Editorial Replaced "MCES" with "condenser shells" in two locations.
10.4-13	Figure 10.4.3-1	Editorial Replaced "AUX TEAM" with "AUX STEAM".
10.4-13	Figure 10.4.3-1	Editorial Changed the steam supply valve symbol from "Closed valve" to "Open valve".
10.4-13	Figure 10.4.3-1	Editorial Changed the title of the figure to "Gland Seal System Piping and Instrumentation Diagram".
10.4-14	10.4.4.1.2 Non-safety Power Generation Design Bases	Changed "main steam flow" to "rated power steam flow" Editorial: Matched to the description of 10.3.
10.4-18	10.4.5.1.2 second sentence.	Editorial Changed "LOOP" to "loss of offsite power (LOOP)".
10.4-18	10.4.5.2.1 first para.	Editorial Changed "Combined License Application will determine" to "COL Applicant is to determine".
10.4-18	10.4.5.2.1 first para.	Editorial Added "for the CWS including makeup water and blowdown" after design parameters.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-18	10.4.5.2.1 fifth para.	Editorial Change “will not” to “does not”.
10.4-19	10.4.5.2.1 eighth para.	Editorial Changed “a concrete intake canal” to “an intake manifold concrete pipe”.
10.4-19	10.4.5.2.1 eighth para.	Editorial Changed “a concrete intake canal” to “an intake manifold concrete pipe”.
10.4-19	10.4.5.2.1 ninth para.	Editorial Changed “non-essential service water” to “non-ESW”.
10.4-19	10.4.5.2.1 ninth para.	Editorial Changed “CWS cooling tower” to “CTW”.
10.4-19	10.4.5.2.2 fifth bullet.	Editorial Added “system” after “ CTW make up water and blowdown ”.
10.4-20	10.4.5.2.2.6 first para. first sentence	Editorial Change “will be” to “is”.
10.4-20	10.4.5.2.2.6 first para. second sentence	Editorial Change “will be” to “are”.
10.4-20	10.4.5.2.2.6 Second para. second and third sentence	Editorial Transferred the description “Control valves are provided for the regulation of cooling tower blowdown and makeup.” to last sentence of second paragraph.
10.4-21	10.4.5.3.2 third para. first sentence	Editorial Change “makeup pump” to “makeup water pump”.
10.4-22	10.4.5.3.4.1 second para. first sentence	Editorial Change “will discharge” to “ discharges ”.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-22	10.4.5.3.4.1 second para. first sentence	Editorial Change “could rise” to “ can rise”.
10.4-22	10.4.5.3.4.1 second para. second sentence	Editorial Change “will carry” to “carries ”.
10.4-22	10.4.5.3.4.1 fourth para. second sentence	Editorial Change “will not” to “does not”.
10.4-23	10.4.5.5 Third para.	Editorial Change “shall be” to “is”.
10.4-23	10.4.5.5 eleventh para.	Editorial Change “will result” to “result”.
10.4-23	10.4.5.6 Twelfth para.	Editorial Added description regarding level switches.
10.4-24 through 10.4-26	Table 10.4.5-1, Sheet 1 through 3	Editorial Changed “Design Parameters For Major Components” to “Design Parameters for Major Components” of table title.
10.4-24	Table 10.4.5-1,	Editorial Delete Design dry bulb temperature, °F (5% Exceedance Coincident): 92
10.4-24	Table 10.4.5-1,	Editorial Delete Minimum, °F (1% Exceedance) wet bulb, °F: 31
10.4-24	Table 10.4.5-1,	Editorial Delete Minimum Non-coincident drybulb °F (0% Exceedance): -10
10.4-24	Table 10.4.5-1,	Editorial Changed “Ambient Design Temperature” to “Ambient design temperature”.
10.4-24	Table 10.4.5-1,	Editorial Changed “Design wet bulb temperature, °F” to “Design wet bulb temperature, (°F)”.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-24	Table 10.4.5-1,	Editorial Changed "Quantity" to "Number of pumps" of Circulating water pumps.
10.4-24	Table 10.4.5-1,	Editorial Changed "Circulating water Pump (per pump)" to "Circulating water pumps".
10.4-24	Table 10.4.5-1,	Editorial Deleted Circulating water pump (per pump) Total Dynamic Head (ft) 55.
10.4-24	Table 10.4.5-1,	Editorial Deleted Circulating water pump (per pump) Pump Motor (HP) 3,000.
10.4-24	Table 10.4.5-1,	Editorial Changed "Mechanical draft Cooling Towers" to "Mechanical draft cooling tower"
10.4-24	Table 10.4.5-1,	Editorial Changed "Quantity" to "Number of pumps" of Mechanical draft cooling tower .
10.4-24	Table 10.4.5-1,	Editorial Changed "CTW Approach" to "CTW design approach temperature"
10.4-24	Table 10.4.5-1,	Editorial Moved design flowrate (gpm) : 1,290,720 plus 27,000 (for Non essential service water) from table 10.4.5-1 Sheet 2of 3 to Sheet 1 of 3.
10.4-25	Table 10.4.5-1,	Editorial Changed " Blowdown Pumps " to " Blowdown pumps "
10.4-26	Table 10.4.5-1,	Editorial Changed " Piping and Components Design Data " to " Piping and components design data "
10.4-26	Table 10.4.5-1,	Editorial Changed " Design pressure/Temperature, psig/°F" to " Design pressure/temperature, (psig/°F)".

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-27	Figure 10.4.5-1,	Editorial Change dash line to full line.
10.4-28 through 10.4-31		Technical Added description of prefilter.
10.4-28	10.4.6.1.2 fourth bullet	Editorial Change “will process” to “processes”.
10.4-28	10.4.6.1.2 fourth bullet	Editorial Deleted “all condensate during plant start up (up to 50% of rated power), and”.
10.4-28	10.4.6.1.2 fourth bullet	Editorial Added “start up and”
10.4-28	10.4.6.2.1 third para.	Editorial Change “The flow rates to each condensate...” to “ The flow rates to condensate...”.
10.4-29	10.4.6.2.2 second para.	Editorial Deleted following sentence because of too detail. “Leachable sulfur of the rubber lining is less than 20ppb.”
10.4-29	10.4.6.2.2 second para.	Editorial Changed “(demineralizers) are in the CPS.” to “(demineralizers) are included in the CPS.”
10.4-29	10.4.6.2.3.1 first para.	Editorial Deleted “up to 50% of rated power”.
10.4-29	10.4.6.2.3.1 first para.	Editorial Changed “startup duration of the plant” to “The duration of the plant startup”.
10.4-29	10.4.6.2.3.1 second para. first sentence	Editorial Change “will be” to “is”.
10.4-29	10.4.6.2.3.1 second para. second sentence	Editorial Change “will be” to “is”.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-30	10.4.6.2.3.1 third para. fourth sentence	Editorial Change “will normally be” to “is normally”.
10.4-30	10.4.6.2.3.1 third para. fourth sentence	Editorial Change “will not require” to “does not require”.
10.4-30	10.4.6.2.3.1 third para. fifth sentence	Editorial Change “will be” to “is”.
10.4-30	10.4.6.2.3.1 third para. sixth sentence	Editorial Change “will be” to “is”.
10.4-30	10.4.6.2.3.2. first sentence	Editorial Change “will go into” to “goes into”.
10.4-30	10.4.6.2.3.2. first sentence	Editorial Change “capable to maintain” to “capable of maintaining”.
10.4-30	10.4.6.2.3.2. third sentence	Editorial Change “will be changed” to “is changed”.
10.4-30	10.4.6.5 first para.	Editorial Added “chloride” after sodium.
10.4-30 through 10.4-31	10.4.6.5	Editorial Change condensate polisher to CPS
10.4-30	10.4.6.5 third para.	Editorial Change “The affected prefilter and...” to “The affected prefilter with...” .
10.4-30	10.4.6.5 fifth para.	Editorial Change “during: (1)” to “: (1) during”.
10.4-30	10.4.6.5 sixth para. first sentence	Editorial Change “spent resin holding vessel level will be measured” to “the spent resin holding vessel level are measured”.
10.4-30	10.4.6.5 sixth para. second sentence	Editorial Change “will be” to “are”.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-38	10.4.7.1.2 Safety Design Basis	<p>Changed “after a safe-shutdown earthquake (SSE)” to “during and after a safe-shutdown earthquake (SSE)”</p> <p>Technical: The description is match to the definition of Chapter 3.</p>														
10.4-56	Table 10.4.7-3 Condensate and Feedwater System Failure Modes and Effects Analysis	<p>Item 1 is changed as shown below.</p> <table border="1"> <thead> <tr> <th>Component</th> <th>Failure Mode</th> <th>Plant Condition</th> <th>Effect on System Operation</th> <th>Failure Detection</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Main Feedwater Isolation Valve (MFIV) NFS-VLV-512A,B,C,D normally open</td> <td>Fails closed or fails to open on demand.</td> <td>During power operation</td> <td>No safety-related effect causes since: No adverse effect on integrities of the reactor or RCPB. Plant can remain in hot standby condition or go to cold shutdown condition.</td> <td>Valve position Indication on the main control room</td> </tr> <tr> <td>Solenoid valve for actuating MFIV fails to open on demand.</td> <td>Excessive Feedwater Flow Steam System Piping Failure Steam Generator Tube Rupture Loss of Coolant Accident</td> <td>No safety-related effect causes since: Main Feedwater Isolation Valve is operated by a separate solenoid valves with redundancy and different class 1E power bus. Failure of either train of solenoid valves does not impair isolation function of Main Feedwater Isolation Valve.</td> <td>Valve testing Valve testing is done in accordance with the Inservice Testing Program. If there are any problems with the solenoid valve, the failure is detected during the testing.</td> </tr> </tbody> </table> <p>Editorial: Changed the name of plant condition.</p>	Component	Failure Mode	Plant Condition	Effect on System Operation	Failure Detection	Main Feedwater Isolation Valve (MFIV) NFS-VLV-512A,B,C,D normally open	Fails closed or fails to open on demand.	During power operation	No safety-related effect causes since: No adverse effect on integrities of the reactor or RCPB. Plant can remain in hot standby condition or go to cold shutdown condition.	Valve position Indication on the main control room	Solenoid valve for actuating MFIV fails to open on demand.	Excessive Feedwater Flow Steam System Piping Failure Steam Generator Tube Rupture Loss of Coolant Accident	No safety-related effect causes since: Main Feedwater Isolation Valve is operated by a separate solenoid valves with redundancy and different class 1E power bus. Failure of either train of solenoid valves does not impair isolation function of Main Feedwater Isolation Valve.	Valve testing Valve testing is done in accordance with the Inservice Testing Program. If there are any problems with the solenoid valve, the failure is detected during the testing.
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10.4-56	Table 10.4.7-3 Condensate and Feedwater System Failure Modes and Effects Analysis	<p>Item 2 is changed as shown below.</p> <table border="1"> <thead> <tr> <th>Component</th> <th>Failure Mode</th> <th>Plant Condition</th> <th>Effect on System Operation</th> <th>Failure Detection</th> </tr> </thead> <tbody> <tr> <td>Main Feedwater Regulation Valve (MFRV) NFS-FCV-460,470,480,490 Normally adjusted to open</td> <td>Fails open fully on demand</td> <td>During power operation</td> <td>No safety-related effect causes since: No adverse effect on integrities of the reactor or RCPB. Plant can remain in hot standby condition or go to cold shutdown condition.</td> <td>Valve position Indication on the main control room</td> </tr> </tbody> </table> <p>Editorial: Changed the name of plant condition.</p>	Component	Failure Mode	Plant Condition	Effect on System Operation	Failure Detection	Main Feedwater Regulation Valve (MFRV) NFS-FCV-460,470,480,490 Normally adjusted to open	Fails open fully on demand	During power operation	No safety-related effect causes since: No adverse effect on integrities of the reactor or RCPB. Plant can remain in hot standby condition or go to cold shutdown condition.	Valve position Indication on the main control room				
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-56	Table 10.4.7-3 Condensate and Feedwater System Failure Modes and Effects Analysis	Item 3 (Main Feedwater Bypass Regulation Valve) is deleted. Technical: This valve is not assumed as malfunction in safety analysis.
10.4-57	Figure 10.4.7-1 Condensate and Feedwater System Piping and Instrumentation Diagram (1/4)	Corrected this figure. Technical: Minor changes are added.
10.4-62	10.4.8.1.2 Non-safety Power Generation Design Bases The 1 st bullet	Editorial: Clarify scope of statement Added “, plant start up operation and abnormal water chemistry conditions at rated power operation” to the end of the sentence of 1st bullet.
10.4-63	10.4.8.2.1 General Description The 3rd paragraph of the page	Editorial: Clarify scope of statement Replaced " abnormal water conditions " with " abnormal water chemistry conditions ".
10.4-64	10.4.8.2.1 General Description The 4th paragraph of the page	Editorial: Clarify scope of statement Replaced " blowdown liquid flows directly to the condenser " with " blowdown liquid flows to the WWS prior to discharge or to the condenser ". Added “of MSR at rated power” after “At 1%”.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-64	<p>10.4.8.2.1 General Description</p> <p>The 8th paragraph of the page</p>	<p>Editorial: Clarify scope of statement</p> <p>Replaced</p> <p>"The SGBDS is isolated from the steam generator under normal operating and transient conditions by two isolation valves located in the main steam /feedwater piping area. "</p> <p>with</p> <p>" Two isolation valves on each blowdown line are located in the main steam/feedwater piping area. The SG blowdown water is transferred through each SG blowdown line under normal operating and transient conditions. "</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-65	10.4.8.2.2.1 Plant Startup The 2nd and 3rd paragraph	<p>Editorial: Clarify scope of statement</p> <p>Replaced “ SG blowdown water is normally returned to the condenser directly without passing.... “ with “ SG blowdown water is directed to the WWS or the condenser without passing.... ”</p> <p>Replaced “ The blowdown water is purified by the condensate polisher located in CPS.“ with “ The SG bulk water chemistry condition is maintained by discharging the blowdown water to WWS. ”</p> <p>Replaced “ In case the water chemistry is out of limits, the blowdown water can not be recovered. The blowdown water is transferred to the condenser in case that the CPS condensate polisher is operable, otherwise it is discharged to WWS. “ with “ As long as the SG blowdown water can be returned to the condenser, the SG blowdown water is transferred to the condenser for purification by the condensate polisher located in CPS . ”</p>
10.4-66	10.4.8.2.2.4 Steam Generator Drain The 1st paragraph	<p>Editorial: Clarify scope of statement</p> <p>Added “ or to the WWS “ to the end of the 1st paragraph last sentence.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-66	10.4.8.2.2.4 Steam Generator Drain The 1st paragraph	Editorial: Clarify scope of statement Added "The COL applicant is to describe the nitrogen or equivalent system design for Steam Generator drain." to the end of the 1st paragraph 2nd sentence.
10.4-66	10.4.8.2.2.5 Abnormal Operation (3) Abnormal water chemistry condition	Editorial: Clarify scope of statement Replaced "at the outlet of the SG blowdown demineralizers lines increase to high-high level, blowdown water is diverted to the condenser. When the blowdown water chemistry is unacceptable, blowdown water is diverted to WWS." with "at the outlet of the SG blowdown demineralizers increase beyond the predetermined limit, blowdown water is diverted to the condenser of to the WWS."
10.4-67	10.4.8.2.3 Component Description Item (1)	Editorial: Clarify scope of statement Replaced " pressure " with " pressure and temperature ".
10.4-71	Table.10.4.8-1 SG blowdown flash tank	Editorial: Clarify scope of statement Replaced " Maximum steaming rate" With "of MSR at rated power".

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-71	Table.10.4.8-1 SG blowdown regenerative heat exchangers	<p>Technical: Modification due to design progress (Parameters were changed from review of the flushing pressure of SG blowdown flush tank).</p> <p>Replaced</p> <table border="1"> <tr> <td>Design heat duty(Btu/hr)</td> <td colspan="2">17.8x10⁶</td> </tr> <tr> <td></td> <td>Tube side</td> <td>Shell side</td> </tr> <tr> <td>Operating temperature-IN (°F)</td> <td>378</td> <td>129</td> </tr> <tr> <td>Operating temperature-OUT(°F)</td> <td>158</td> <td>367</td> </tr> <tr> <td>Design flow rate(lb/hr)</td> <td>79.1x10³</td> <td>73.7x10³</td> </tr> <tr> <td>Design pressure(psig)</td> <td>300</td> <td>600</td> </tr> <tr> <td>Design temperature(°F)</td> <td>410</td> <td>200</td> </tr> </table> <p>with</p> <table border="1"> <tr> <td>Design heat duty(Btu/hr)</td> <td colspan="2">17.6x10⁶</td> </tr> <tr> <td></td> <td>Tube side</td> <td>Shell side</td> </tr> <tr> <td>Operating temperature-IN (°F)</td> <td>375</td> <td>129</td> </tr> <tr> <td>Operating temperature-OUT(°F)</td> <td>158</td> <td>365</td> </tr> <tr> <td>Design flow rate(lb/hr)</td> <td>79.4x10³</td> <td>73.5x10³</td> </tr> <tr> <td>Design pressure(psig)</td> <td>300</td> <td>560</td> </tr> <tr> <td>Design temperature(°F)</td> <td>410</td> <td>410</td> </tr> </table>	Design heat duty(Btu/hr)	17.8x10 ⁶			Tube side	Shell side	Operating temperature-IN (°F)	378	129	Operating temperature-OUT(°F)	158	367	Design flow rate(lb/hr)	79.1x10 ³	73.7x10 ³	Design pressure(psig)	300	600	Design temperature(°F)	410	200	Design heat duty(Btu/hr)	17.6x10 ⁶			Tube side	Shell side	Operating temperature-IN (°F)	375	129	Operating temperature-OUT(°F)	158	365	Design flow rate(lb/hr)	79.4x10 ³	73.5x10 ³	Design pressure(psig)	300	560	Design temperature(°F)	410	410
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-71	Table.10.4.8-1 SG blowdown non-regenerative coolers	<p>Technical: Modification due to design progress (same as above)</p> <p>Changed "3.6×10^6 " to "3.57×10^6 " as concerns "Design heat duty".</p> <p>Changed "79.1×10^3" and "395×10^3" to "79.4×10^3" and "397×10^3" as concerns "Design flow rate".</p>
10.4-72	Table.10.4.8-1 SG blowdown demineralizers	<p>Technical: Modification due to design progress (same as above)</p> <p>Changed " 158.2×10^3 lb/hr " to " 320 gpm " as concerns "Design flow rate of this demineralizer".</p>
10.4-72	Table.10.4.8-1 SG blowdown sample coolers	<p>Technical: Change from review of effective digit.</p> <p>Changed "210×10^3" to " 209×10^3 " as concerns "Design heat duty(Btu/hr) of this cooler".</p>
10.4-72	Table.10.4.8-1 SG blowdown demineralizers inlet filters	<p>Technical: Modification due to design progress (same as above)</p> <p>Changed " 316 " to " 320 " as concerns "operating flow rate(gpm) of this filter".</p>
10.4-74 and 10.4-75	Figure.10.4.8-1 and Figure.10.4.8-2 Steam Generator Blowdown System Flow Diagram	<p>Technical: Modification due to design progress</p> <p>Replaced with new drawing.</p> <p>Editorial: Clarify scope of statement</p> <ul style="list-style-type: none"> Changed the Figure title " Steam Generator Blowdown System Flow Diagram" to "Steam Generator Blowdown System Piping and Instrumentation Diagram".

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-90	Table 10.4.9-1 Emergency Feedwater System Component Design Parameters (Sheet 1 of 3)	Delete "NPSH required at maximum operating flow (ft)". Technical: This value is due to pump vender.
10.4-90	Table 10.4.9-1 Emergency Feedwater System Component Design Parameters (Sheet 1 of 3)	Changed minimum flow rate to "50 gpm". Technical: This value is due to pump vender. The allowable maximum mini-flow rate is 50 gpm.
10.4-91	Table 10.4.9-1 Emergency Feedwater System Component Design Parameters (Sheet 2 of 3)	Delete "NPSH required at maximum operating flow (ft)". Technical: This value is due to pump vender.
10.4-91	Table 10.4.9-1 Emergency Feedwater System Component Design Parameters (Sheet 2 of 3)	Delete "Driver (Turbine)". Technical: The values related Driver (Turbine) is due to pump vender.
10.4-92	Table 10.4.9-1 Emergency Feedwater System Component Design Parameters (Sheet 3 of 3)	Changed "Pit inside dimensions (ft)" to "Pit inside dimensions, L(ft)×W(ft)×H(ft)" Editorial: The definition of the length is clarified.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-94	Table 10.4.9-4 Emergency Feedwater System Failure Modes and Effects Analysis (Sheet 1 of 3)	<p>Description of Emergency Feedwater Pump is changed as shown below.</p> <table border="1"> <thead> <tr> <th>Component s</th> <th>Failure Mode</th> <th>Plant Condition</th> <th>Effect on System Operation</th> <th>Failure detection</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>Emergency Feedwater Pump EFS-RPP-001A,D(Turbine-driven) EFS-RPP-001B,C(Motor-driven) Normally stopped</td> <td>Failure to start on demand</td> <td>Loss of Non-emergency AC power Loss of Nominal Feedwater Small Break Loss of Coolant Accident Safe Shutdown</td> <td>No effect on safety-related function since: The three remaining EFW pumps are sufficient for providing EFW to three SGs.</td> <td>EFW pump operating information: Flow, discharge pressure and pump motor current in MCR Circuit breaker close position light in MCR</td> <td>The left columns describe the non-OLM case where the EFWs is separated into four trains (EFW pump discharge tie line is closed). For OLM: No effect on safety-related function since at least two pumps are available to operate and at least three SGs can be supplied with EFW by opening the EFW pump discharge tie line during all modes of plant operation assuming that one pump is not available due to maintenance.</td> </tr> <tr> <td></td> <td></td> <td>Feedwater System Pipe Break Steam Generator Tube Rupture Safe Shutdown</td> <td>No effect on safety-related function since: Each EFW line is provided with redundant isolation valves that automatically close to isolate the affected SG. This permits the EFW supply to be provided to the three intact SGs by three pumps following the event. In addition, two pumps are available for supplying EFW to the two intact SGs assuming one pump failure.</td> <td>EFW pump operating information: Flow, discharge pressure and pump motor current in MCR Circuit breaker close position light in MCR</td> <td></td> </tr> </tbody> </table> <p>Editorial: The item M/D-EFW pump and T/D-EFW pump are combined as Emergency feedwater pump. Changed the name of plant condition. Changed the number of available pump quantities from 2 to 3 in the case of OLM at Remarks.</p>	Component s	Failure Mode	Plant Condition	Effect on System Operation	Failure detection	Remarks	Emergency Feedwater Pump EFS-RPP-001A,D(Turbine-driven) EFS-RPP-001B,C(Motor-driven) Normally stopped	Failure to start on demand	Loss of Non-emergency AC power Loss of Nominal Feedwater Small Break Loss of Coolant Accident Safe Shutdown	No effect on safety-related function since: The three remaining EFW pumps are sufficient for providing EFW to three SGs.	EFW pump operating information: Flow, discharge pressure and pump motor current in MCR Circuit breaker close position light in MCR	The left columns describe the non-OLM case where the EFWs is separated into four trains (EFW pump discharge tie line is closed). For OLM: No effect on safety-related function since at least two pumps are available to operate and at least three SGs can be supplied with EFW by opening the EFW pump discharge tie line during all modes of plant operation assuming that one pump is not available due to maintenance.			Feedwater System Pipe Break Steam Generator Tube Rupture Safe Shutdown	No effect on safety-related function since: Each EFW line is provided with redundant isolation valves that automatically close to isolate the affected SG. This permits the EFW supply to be provided to the three intact SGs by three pumps following the event. In addition, two pumps are available for supplying EFW to the two intact SGs assuming one pump failure.	EFW pump operating information: Flow, discharge pressure and pump motor current in MCR Circuit breaker close position light in MCR	
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4.9-95	Table 10.4.9-4 Emergency Feedwater System Failure Modes and Effects Analysis (Sheet 2 of 3)	<p>Description of T/D-EFW pump actuation valve is changed as shown below.</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Failure Mode</th> <th>Plant Condition</th> <th>Effect on System Operation</th> <th>Failure detection</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td rowspan="2">T/D-EFW pump actuation valve EFS-MOV-103A.D normally closed, dc MOVs</td> <td rowspan="2">Failure to open on demand</td> <td>Loss of Non-emergency AC power Loss of Nominal Feedwater Small Break Loss of Coolant Accident Safe Shutdown</td> <td>No effect on safety-related function since: The three remaining EFW pumps are sufficient for providing EFW to three SGs.</td> <td rowspan="2">Valve information: Valve open/close position indication in MCR</td> <td rowspan="2">The left columns describe the non-OLM case where the EFW is separated into four trains (EFW pump discharge tie line is closed). For OLM: No effect on safety-related function since at least two pumps are available to operate and at least three SGs can be supplied with EFW by opening the EFW pump discharge tie line during all modes of plant operation assuming that one pump is not available due to maintenance.</td> </tr> <tr> <td>Feedwater System Pipe Break Steam Generator Tube Rupture Safe Shutdown</td> <td>No effect on safety-related function since: Each EFW line is provided with redundant isolation valves that automatically close to isolate the affected SG. This permits the EFW supply to be provided to the three intact SGs by three pumps following the event. In addition, two pumps are available for supplying EFW to the two intact SGs assuming one T/D-EFW pump actuation valve failure.</td> </tr> </tbody> </table> <p>Editorial: Changed the name of plant condition. Changed the number of available pump quantities from 2 to 3 in the case of OLM at Remarks.</p>	Components	Failure Mode	Plant Condition	Effect on System Operation	Failure detection	Remarks	T/D-EFW pump actuation valve EFS-MOV-103A.D normally closed, dc MOVs	Failure to open on demand	Loss of Non-emergency AC power Loss of Nominal Feedwater Small Break Loss of Coolant Accident Safe Shutdown	No effect on safety-related function since: The three remaining EFW pumps are sufficient for providing EFW to three SGs.	Valve information: Valve open/close position indication in MCR	The left columns describe the non-OLM case where the EFW is separated into four trains (EFW pump discharge tie line is closed). For OLM: No effect on safety-related function since at least two pumps are available to operate and at least three SGs can be supplied with EFW by opening the EFW pump discharge tie line during all modes of plant operation assuming that one pump is not available due to maintenance.	Feedwater System Pipe Break Steam Generator Tube Rupture Safe Shutdown	No effect on safety-related function since: Each EFW line is provided with redundant isolation valves that automatically close to isolate the affected SG. This permits the EFW supply to be provided to the three intact SGs by three pumps following the event. In addition, two pumps are available for supplying EFW to the two intact SGs assuming one T/D-EFW pump actuation valve failure.
Components	Failure Mode	Plant Condition	Effect on System Operation	Failure detection	Remarks											
T/D-EFW pump actuation valve EFS-MOV-103A.D normally closed, dc MOVs	Failure to open on demand	Loss of Non-emergency AC power Loss of Nominal Feedwater Small Break Loss of Coolant Accident Safe Shutdown	No effect on safety-related function since: The three remaining EFW pumps are sufficient for providing EFW to three SGs.	Valve information: Valve open/close position indication in MCR	The left columns describe the non-OLM case where the EFW is separated into four trains (EFW pump discharge tie line is closed). For OLM: No effect on safety-related function since at least two pumps are available to operate and at least three SGs can be supplied with EFW by opening the EFW pump discharge tie line during all modes of plant operation assuming that one pump is not available due to maintenance.											
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US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

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10.4-95	Table 10.4.9-4 Emergency Feedwater System Failure Modes and Effects Analysis (Sheet 2 of 3)	<p>Description of EFW control valve is changed as shown below.</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Failure Mode</th> <th>Plant Condition</th> <th>Effect on System Operation</th> <th>Failure detection</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>EFW control valve EFS-MOV-017A,B,C,D normally opened, dc MOVs</td> <td>Failure to close on demand</td> <td>Inadvertent secondary depressurization Feedwater System Pipe Break Steam System Piping Failure Steam Generator Tube Rupture</td> <td>No effect on safety-related function since: The series of this control valves and the isolation valves (EFS-MOV-019A,B,C,D) with redundancy can stop EFW supply to the affected SG (automatically closes upon receipt of signals).</td> <td>Valve information: Valve open/close position indication in MCR</td> <td></td> </tr> </tbody> </table> <p>Editorial: Changed the name of plant condition.</p>	Components	Failure Mode	Plant Condition	Effect on System Operation	Failure detection	Remarks	EFW control valve EFS-MOV-017A,B,C,D normally opened, dc MOVs	Failure to close on demand	Inadvertent secondary depressurization Feedwater System Pipe Break Steam System Piping Failure Steam Generator Tube Rupture	No effect on safety-related function since: The series of this control valves and the isolation valves (EFS-MOV-019A,B,C,D) with redundancy can stop EFW supply to the affected SG (automatically closes upon receipt of signals).	Valve information: Valve open/close position indication in MCR	
Components	Failure Mode	Plant Condition	Effect on System Operation	Failure detection	Remarks									
EFW control valve EFS-MOV-017A,B,C,D normally opened, dc MOVs	Failure to close on demand	Inadvertent secondary depressurization Feedwater System Pipe Break Steam System Piping Failure Steam Generator Tube Rupture	No effect on safety-related function since: The series of this control valves and the isolation valves (EFS-MOV-019A,B,C,D) with redundancy can stop EFW supply to the affected SG (automatically closes upon receipt of signals).	Valve information: Valve open/close position indication in MCR										

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change												
10.4-96	Table 10.4.9-4 Emergency Feedwater System Failure Modes and Effects Analysis (Sheet 3 of 3)	<p>Description of EFW isolation valve is changed as shown below.</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Failure Mode</th> <th>Plant Condition</th> <th>Effect on System Operation</th> <th>Failure detection</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td> EFW isolation valve EFS-MOV-019A,B,C,D normally opened, dc MOVs These valves are normally positioned to limit the maximum EFW flow </td> <td>Failure to close on demand</td> <td> Inadvertent secondary depressurization on Feedwater System Pipe Break Steam System Piping Failure Steam Generator Tube Rupture </td> <td> No effect on safety-related function since: The series of this isolation valves and the control valves (EFS-MOV-017A,B,C,D) with redundancy can stop EFW supply to the affected SG (automatically closes upon receipt of signals). </td> <td> Valve information: Valve open/close position indication in MCR </td> <td></td> </tr> </tbody> </table> <p>Editorial: Changed the name of plant condition.</p>	Components	Failure Mode	Plant Condition	Effect on System Operation	Failure detection	Remarks	EFW isolation valve EFS-MOV-019A,B,C,D normally opened, dc MOVs These valves are normally positioned to limit the maximum EFW flow	Failure to close on demand	Inadvertent secondary depressurization on Feedwater System Pipe Break Steam System Piping Failure Steam Generator Tube Rupture	No effect on safety-related function since: The series of this isolation valves and the control valves (EFS-MOV-017A,B,C,D) with redundancy can stop EFW supply to the affected SG (automatically closes upon receipt of signals).	Valve information: Valve open/close position indication in MCR	
Components	Failure Mode	Plant Condition	Effect on System Operation	Failure detection	Remarks									
EFW isolation valve EFS-MOV-019A,B,C,D normally opened, dc MOVs These valves are normally positioned to limit the maximum EFW flow	Failure to close on demand	Inadvertent secondary depressurization on Feedwater System Pipe Break Steam System Piping Failure Steam Generator Tube Rupture	No effect on safety-related function since: The series of this isolation valves and the control valves (EFS-MOV-017A,B,C,D) with redundancy can stop EFW supply to the affected SG (automatically closes upon receipt of signals).	Valve information: Valve open/close position indication in MCR										

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change																	
10.4-96	Table 10.4.9-4 Emergency Feedwater System Failure Modes and Effects Analysis (Sheet 3 of 3)	<p>Description of T/D-EFW main steam line steam isolation valve is changed as shown below.</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Failure Mode</th> <th>Plant Condition</th> <th>Effect on System Operation</th> <th>Ffailure detection</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td rowspan="2">T/D-EFW pump main steam line steam isolation valve EFS-MOV-101A,B,C,D normally opened, dc MOVs</td> <td>Failure to close on demand</td> <td>Loss of Coolant Accident</td> <td>No effect on safety-related function since: Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.</td> <td>Valve information: Valve open/close position indication in MCR</td> <td></td> </tr> <tr> <td>Failure to close on demand</td> <td>Steam Generator Tube Rupture</td> <td>No effect on safety-related function since: Isolation of affected SG is achieved by redundant T/D-EFW pump actuation valves (EFS-MOV-103A,D).</td> <td>Valve information: Valve open/close position indication in MCR</td> <td></td> </tr> </tbody> </table> <p>Editorial: Changed the name of plant condition.</p>	Components	Failure Mode	Plant Condition	Effect on System Operation	Ffailure detection	Remarks	T/D-EFW pump main steam line steam isolation valve EFS-MOV-101A,B,C,D normally opened, dc MOVs	Failure to close on demand	Loss of Coolant Accident	No effect on safety-related function since: Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.	Valve information: Valve open/close position indication in MCR		Failure to close on demand	Steam Generator Tube Rupture	No effect on safety-related function since: Isolation of affected SG is achieved by redundant T/D-EFW pump actuation valves (EFS-MOV-103A,D).	Valve information: Valve open/close position indication in MCR	
Components	Failure Mode	Plant Condition	Effect on System Operation	Ffailure detection	Remarks														
T/D-EFW pump main steam line steam isolation valve EFS-MOV-101A,B,C,D normally opened, dc MOVs	Failure to close on demand	Loss of Coolant Accident	No effect on safety-related function since: Containment boundary remains intact with redundancy provided by this valve, SGs and main steam lines.	Valve information: Valve open/close position indication in MCR															
	Failure to close on demand	Steam Generator Tube Rupture	No effect on safety-related function since: Isolation of affected SG is achieved by redundant T/D-EFW pump actuation valves (EFS-MOV-103A,D).	Valve information: Valve open/close position indication in MCR															
10.4-97	Table 10.4.9-5 Emergency Feedwater System Summary of Indication and Controls	<p>Deleted "EFW pit water temperature".</p> <p>Technical: This channel is not indicated to the RSC.</p>																	

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-97	Table 10.4.9-6 Emergency Feedwater System Electric Power Sources	Electric Train of EFS-MOV-101B is changed to Class 1E dc bus "A". Editorial: Typing error is corrected.
10.4-97	Table 10.4.9-6 Emergency Feedwater System Electric Power Sources	Electric Train of EFS-MOV-101C is changed to Class 1E dc bus "D". Editorial: Typing error is corrected.
10.4-98	Figure 10.4.9-1 Emergency Feedwater System Piping and Instrumentation Diagram (1/2)	Corrected this figure. Technical: Minor changes are added.
10.4-100	Figure 10.4.9-2 Emergency Feedwater System Piping and Instrumentation Diagram (2/2)	Corrected this figure. Technical: Minor changes are added.
10.4-101 through 10.4-107		Technical Change ammonia to pH controller.
10.4-101 through 10.4-107		Technical Change hydrazine to oxygen scavenger
10.4-101 through 10.4-107		Editorial Change injection point from "feedwater booster pump suction" to "deaerator"
10.4-101 through 10.4-107		Editorial Change "layup operation" to "layup"
10.4-101 through 10.4-107		Editorial Change "condensate polisher" to "CPS"
10.4-101 through 10.4-107		Editorial Change "normal operation" to "continuous operation"

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-101	10.4.10, first para.	Editorial Changed “will be maintained” to “is maintained”
10.4.101	10.4.10, first para.	Technical Change “with ammonia (or equivalent ph controller) “ to “with ph controller”
10.4-101	10.4.10, first para.	Editorial Changed “will be removed” to “is removed”
10.4-101	10.4.10, first para.	Technical Changed “by hydrazine (or equivalent oxygen scavenger) “ to “by oxygen scavenger”
10.4-101	10.4.10, third para.	Editorial Changed “will be injected” to “are injected”
10.4-101	10.4.10, fourth para.	Editorial Changed “will be injected” to “are injected”
10.4-101	10.4.10, fifth para.	Technical Add “ bulk chemical system”
10.4-101	10.4.10, fifth para.	Editorial Change “The SCIS does not include sampling systems, which are covered in Subsection 9.3.2.” to “The sampling system related to the SCIS is covered in Subsection 9.3.2.”.
10.4-101	10.4.10, fifth para.	Editorial Delete “ Also, bulk chemical storage tanks and associated transfer pumps that transfer the chemicals to the SCIS day tanks are not part of the SCIS.”
10.4-101	10.4.10.1.2, second para.	Editorial Changed “will be injected” to “is injected”
10.4-101	10.4.10.1.2, second para.	Editorial Delete “ , while the condensate polishing system (CPS) is offline. During startup, cleanup and abnormal conditions, e.g. condenser tube leak operation, the CPS will be used and pH will be maintained at approximately 9.2..”

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-101	10.4.10.1.2, second para.	Editorial Changed “will be maintained” to “are maintained”
10.4-101	10.4.10.1.2, second para.	Editorial Changed “will be followed” to “is followed”
10.4-101	10.4.10.1.2, fourth para.	Editorial Delete “ The specific design criteria and objectives were developed for the SCIS from the “EPRI ALWR Utility Requirements Document” (EPRI URD) (Reference 10.4-19) to ensure that the SCIS performs in a reliable manner.
10.4-102	10.4.10.2.1, second para.	Technical Change “...consists two sub-systems” to “...consists of bulk chemical subsystem and two chemical injection sub-systems”
10.4-102	10.4.10.2.1, second para.	Editorial Add “chemical injection”.
10.4-102	10.4.10.2.1, second para.	Editorial Deleted detail description such as equipment specification.
10.4-102	10.4.10.2.1, third para.	Editorial Changed “will be injected” to “are injected”
10.4-102	10.4.10.2.1, fourth para.	Editorial Added “mainly”
10.4-102	10.4.10.2.1, fourth para.	Editorial Deleted “and removed by the SGBD demineralizer and the CPS when in use.”
10.4-102	10.4.10.2.1, fifth para.	Editorial Deleted “Hydrazine levels also drop in the deaerator due to reaction with oxygen and thermal conversion of hydrazine to ammonia.”
10.4-102	10.4.10.2.1, sixth para.	Editorial Changed “will be injected” to “are injected”

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-102	10.4.10.2.1, seventh para.	Editorial Change “same water chemistry as during power operation; i.e. a residual hydrazine level and pH level during layup should not drop below the power operation pH level.” to “water purity to prevent affecting normal operation”
10.4-102	10.4.10.2.1, eighth para.	Editorial Changed “will send” to “send”
10.4-102	10.4.10.2.1, eighth para.	Editorial Changed “will inject” to “inject”
10.4-102	10.4.10.2.1, tenth para.	Technical Added “, except the bulk chemical system which is located outdoors”
10.4-103	10.4.10.2.2.1, first para.	Technical Added “ In the US-APWR, morpholine and dimethylamine are used as pH controllers during continuous operation. In addition, ammonia is used during layup. Each pH controller has one addition tank with an agitator.”
10.4-103	10.4.10.2.2.1, first para.	Editorial Deleted detail description such as equipment specification.
10.4-103	10.4.10.2.2.1, first para.	Technical Change “from a bulk storage tank” to “from the bulk chemical system”.
10.4-103	10.4.10.2.2.2, first para.	Technical Added “ In the US-APWR, hydrazine is used as oxygen scavenger.”
10.4-103	10.4.10.2.2.2, first para.	Editorial Deleted detail description such as equipment specification.
10.4-103	10.4.10.2.2.2, first para.	Editorial Changed “... tank is in the SCIS” to “... tank is included in the SCIS”.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-103	10.4.10.2.2.2, first para.	Technical Change "from a bulk storage tank" to "from the bulk chemical system".
10.4-103	10.4.10.2.2.3, first para.	Technical Change ammonia basis to morpholine and DMA basis.
10.4-103	10.4.10.2.2.3, first para.	Editorial Changed "... operation are in the SCIS" to "... operation are provided in the SCIS".
10.4-103	10.4.10.2.2.4, first para.	Editorial Changed "... controllers is in the SCIS" to "... controllers is included in the SCIS".
10.4-103	10.4.10.2.2.4, second para.	Editorial Changed "will be injected" to "is injected"
10.4-103 through 10.4-104	10.4.10.2.2.3 through 10.4.10.2.2.6	Editorial Deleted detail description such as equipment specification.
10.4-104	10.4.10.2.2.6 first para.	Editorial Changed "... layup operation is in the SCIS" to "... layup is included in the SCIS".
10.4-104	10.4.10.2.2.6 second para.	Editorial Changed "will be injected" to "is injected"
10.4-104	10.4.10.2.2.6 second para.	Editorial Changed "layup pump to four points" to " layup pump at four points "
10.4-104	10.4.10.2.2.7	Technical Added the description regarding Bulk Chemical System before Piping, Valves and instruments.
10.4-104	10.4.10.2.2.8	Editorial Change subsection number of "Piping, Valves and instruments" 10.4.10.2.2.7 to 10.4.10.2.2.8.
10.4-104	10.4.10.2.2.8	Editorial Delete "injection" after "discharge side of the".

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-104	10.4.10.2.2.8	Editorial Delete “injection” after “discharge pressure of the”.
10.4-104	10.4.10.2.2.8	Editorial Changed “described under” to “described in”.
10.4-104	10.4.10.2.3 first para.	Editorial Deleted “, also called “normal operation””
10.4-104	10.4.10.2.3 first para.	Editorial Deleted “, using its “normal operation” equipment”
10.4-104	10.4.10.2.3 first para.	Editorial Changed “will feed” to “feeds”
10.4-104	10.4.10.2.3 second para. first sentence	Editorial Changed “will be maintained” to “is maintained”
10.4-104	10.4.10.2.3 second para. second sentence	Editorial Changed “use i.e., 100%” to “use, i.e., is 100%”
10.4-104	10.4.10.2.3 second para. third sentence	Editorial Changed “will be treated” to “is treated”
10.4-105	10.4.10.2.3 second para. fourth sentence	Editorial Changed “will be treated” to “is treated”
10.4-105	10.4.10.2.3 second para. fifth sentence	Editorial Changed “will be treated” to “is treated”
10.4-105	10.4.10.2.3 third para.	Editorial Added “ Volatile chemicals (pH controller and oxygen scavenger) are mainly depleted in the main condenser and deaerator, and pH controller is removed by CPS and SGBD demineralizer.”
10.4-105	10.4.10.2.3 third para.	Editorial Delete “ The cation resins remove ammonium ions from the condensate that flows through the CPS (and the portion of the hydrazine that thermally decomposes to ammonia).”
10.4-105	10.4.10.2.3 fourth para.	Editorial Changed “will be transferred” to “is transferred”

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-105	10.4.10.2.3 fourth para.	Editorial Change “ bulk storage tanks by their transfer pumps to the SCIS chemical addition tanks” to “bulk chemical system to the chemical addition tanks”
10.4-105	10.4.10.2.3 fourth para.	Editorial Changed “will be prepared” to “is prepared”
10.4-105	10.4.10.2.3 fourth para.	Editorial Added “ Mixing is done by an agitator, which is mounted on the tank top.”
10.4-105	10.4.10.2.3 fifth para. through sixth para.	Editorial Deleted detail description such as equipment specification.
10.4-105	10.4.10.2.3.1 first para.	Editorial Change “ the SCIS includes three “ to “the SCIS operates two of three”
10.4-105	10.4.10.2.3.1 first para.	Editorial Change “ One pump is for“ to “ One pump is used for ”
10.4-105	10.4.10.2.3.1 second para.	Editorial Changed “will be adjusted” to “is adjusted”
10.4-105	10.4.10.2.3.1 third para. first sentence	Editorial Changed “will display” to “ display”
10.4-105	10.4.10.2.3.1 third para. second sentence	Editorial Changed “will initiate” to “ initiates”
10.4-105	10.4.10.2.3.1 third para. third sentence	Editorial Changed “will be programmed” to “is programmed”
10.4-105	10.4.10.2.3.1 third para. third sentence	Editorial Changed “will be used” to “are used”
10.4-105	10.4.10.2.3.2 first para.	Editorial Changed “will be under” to “is under”
10.4-105	10.4.10.2.3.2 second para.	Editorial Changed “... controllers is in the SCIS” to “... controllers is included in the SCIS”.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-105	10.4.10.2.3.2 third para.	Editorial Changed “will be injected” to “are injected”
10.4-105	10.4.10.2.3.2 third para.	Editorial Changed “layup pump to four points” to “ layup pump at four points ”
10.4-106	10.4.10.2.3.2 fourth para.	Editorial Changed “will be injected” to “is injected”
10.4-106	10.4.10.2.3.2 fourth para.	Editorial Changed “layup pump to four points” to “ layup pump at four points ”
10.4-106	10.4.10.2.3.2 second para.	Editorial Deleted “ The pump suction line is connected to the ammonia addition tank.”
10.4-106	10.4.10.3 through 10.4.10.4	Editorial Change “chemical injection system” to “SCIS”
10.4-107	10.4.10.5 first para.	Editorial Changed “will be manually” to “are manually”
10.4-107	10.4.10.5 item d	Editorial Change “amount” to “amounts”
10.4-107	10.4.10.5 item e	Editorial Change “addition metering pumps” to “injection pumps”
10.4-107	10.4.10.5 item g	Technical Change “Each chemical injection pump” to “ Each chemical injection pump and bulk chemical transfer pump”
10.4-107	10.4.10.5 item h.	Technical Added description regarding Bulk Chemical Storage Tank Level Transmitter
10.4-107	10.4.10.5 item i.	Technical Added description regarding Bulk chemical Storage Tank Level Switches

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
10.4-108 through 10.4-110	Table 10.4.10-1	Editorial Deleted Detail contents.
10.4-108 through 10.4-109	Table 10.4.10-1	Technical Change ammonia basis to morpholine and DMA basis.
10.4-108	Table 10.4.10-1	Editorial Added title “ pH Controller Addition Tank with Agitator”
10.4-108	Table 10.4.10-1	Editorial Added title “ Oxygen Scavenger Addition Tank with Agitator”
10.4-109	Table 10.4.10-1	Editorial Added title “ pH Controller Injection Pumps for Continuous Operation”
10.4-109	Table 10.4.10-1	Editorial Added title “ Oxygen Scavenger Injection Pumps for Continuous Operation ”
10.4-110	Table 10.4.10-1	Editorial Added title “ Oxygen Scavenger Injection Pump for Layup ”
10.4-110	Table 10.4.10-1	Technical Added Bulk Chemical System components.
10.4-111	Table 10.4.10-2	Technical Change ammonia basis to morpholine and DMA basis.
10.4-112 through 10.4-113	Figure 10.4.10-1	Technical Change ammonia basis to morpholine and DMA basis.

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
General	10.4.11 Auxiliary Steam Supply System	<p>The related portions are changed, with the elimination of the steam converter.</p> <p>Technical: The steam converter is not used for making auxiliary steam because of the reason shown below.</p> <ul style="list-style-type: none"> • US in general • Construction & running cost advantage <p>A part of main steam or turbine extracting steam is used as auxiliary steam.</p>
10.4-114	10.4.11 Auxiliary Steam Supply System	<p>Changed “auxiliary boiler, or steam converter” to “auxiliary boiler, main steam or turbine extracting steam”.</p> <p>Technical: The steam converter is not used for making auxiliary steam because of the reason shown below.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>10.4-114</p>	<p>10.4.11.1.2 Power Generation Design Basis</p>	<p>This subsection is changed as shown below.</p> <p>“The power generation design bases of the ASSS are as follows:</p> <ul style="list-style-type: none"> • The ASSS is designed to supply the steam required for plant use during startup, shutdown and normal operation. • The steam converter supplies AS during normal plant operation. • The auxiliary boiler supplies AS during plant startup and shutdown.” <p>is changed to</p> <p>“The ASSS has the functions shown below:</p> <ul style="list-style-type: none"> • During plant normal operation, the ASSS supplies auxiliary steam to the components of primary system or HVAC system by taking the part of the main steam or turbine extracting steam. Then the system transfers the condensed water from these components to the condenser to use the water as the steam again. • During plant startup, shutdown and plant regular inspections, main steam is not available; the auxiliary steam from the auxiliary boiler is supplied to the components of the primary system, HVAC system and secondary system. The condensed water from the primary or HVAC system components are collected to the auxiliary boiler and used as auxiliary steam again, and the auxiliary steam sent to the secondary system is collected to the condenser or Condensate and Feedwater System (CFS). • The auxiliary steam drain monitors the leakage of the radioactive materials from the boric acid evaporator to the condensed water of the ASSS.” <p>Technical: The steam converter is not used for making auxiliary steam because of the reason shown below.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>10.4-114</p>	<p>10.4.11.2.1 General Description</p>	<p>This subsection is changed as shown below.</p> <p>“The ASSS is shown schematically in Figure 10.4.11-1. Equipment and components classification and applicable codes and standards are provided in Section 3.2.</p> <p>The ASSS consists of an auxiliary boiler, steam converter and distribution headers. The ASSS is distributed throughout the plant to the various components as required.</p> <p>The steam converter consists of one steam converter, one steam converter feedwater tank, two steam converter feedwater pump(s), AS drain tank, two AS drain tank pumps, AS drain monitor heat exchanger, piping, valves and instrumentation. The auxiliary boiler consists of two auxiliary boilers, one auxiliary boiler feedwater tank, three auxiliary boiler feedwater pumps, associated piping valves and instrumentation. AS drain tank, two AS drain tank pumps, and AS drain monitor heat exchanger are common to both loops.</p> <p>The auxiliary steam users are divided into three groups in accordance with the location, the probability of auxiliary steam contamination from users, and the auxiliary steam usage time. Group I consists of a boric acid (B.A.) evaporator, B.A. batching tank, decontamination use, auxiliary building supply air handling unit and general electrical room supply air handling unit. These are located at a lower elevation in the auxiliary building and may contaminate auxiliary steam. Group II components are located at a higher elevation in the auxiliary building and consist of the auxiliary building supply air handling unit, and general electric room supply air handling unit. Group III components are associated with the turbine generator equipment and use auxiliary steam when the main steam is not available. This includes the turbine gland seal and deaerator.</p> <p>The auxiliary boiler and associated equipment are located outside in the yard. The steam converter and</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
		<p>associated equipment are located in the turbine building and the common equipment is located in the auxiliary building.</p> <p>Condensed water from group I components drain to the AS drain tank. The AS drain tank pump(s) transfer this condensate to either the steam converter feedwater tank or the auxiliary boiler feedwater tank. Because the condensate from the B.A. evaporator has the potential of being contaminated with radioactive materials via leakages from the other side, a radiation monitor is provided in the return line from this equipment. When the concentration of the radioactive materials exceeds the pre set limit, an alarm is activated in the main control room. The AS drain tank pump is stopped and the valve in the B.A. evaporator return line is closed. This prevents the contaminated water from being transferred into the turbine building or outside.</p> <p>Condensed liquid from the Group II components flows directly to either the steam converter feedwater tank or the auxiliary boiler feedwater tank.”</p> <p>is changed to</p> <p>“The conceptual flow diagram is shown in Figure 10.4.11-1.</p> <p>The system includes a control valve to reduce the main steam or turbine extracting steam pressure, auxiliary boiler package, auxiliary steam drain tank, auxiliary steam drain pump, auxiliary steam drain monitor, auxiliary steam drain monitor heat exchanger, condensed water piping and other components.</p> <p>The components served by the system are categorized into two groups.</p> <p>Group I components are shown below. For operation as required during startup, shutdown, plant regular inspection and normal operation, the auxiliary steam from the auxiliary boiler, main steam, or extracting steam is supplied to the components continuously or intermittently. Condensed water from these components</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
		<p>is collected in the auxiliary steam drain tank and then, by using the auxiliary steam drain pump, is transferred to the condenser during plant normal operation, or to the auxiliary boiler during the period in which the main steam is not available.</p> <ul style="list-style-type: none"> • Boric acid (B/A) evaporator • B/A batching tank • Non safety-related HVAC equipment <p>Monitoring the leakage from the primary side of the evaporator, the radiation monitor is attached to the downstream of the evaporator. The high alarm of the monitor isolates the condensing line from the evaporator to the drain tank and trips the pump.</p> <p>Group II components served by the system are shown below. These components are supplied auxiliary steam from the auxiliary boiler during plant startup, shutdown or regular inspections due to unavailable of the main steam.</p> <ul style="list-style-type: none"> • Turbine gland seal • Deaerator seal • Deaerator heating <p>The auxiliary steam for group II components is collected in the turbine cycle.”</p> <p>Technical: The steam converter is not used for making auxiliary steam because of the reason shown below.</p>
<p>10.4.11-2</p>	<p>10.4.11.2.2 Component Description</p>	<p>This subsection is changed as shown below.</p> <p><u>Auxiliary Steam Boiler</u></p> <p>The auxiliary boiler is an oil-fired package boiler. The system is protected from overpressure by safety valves located on the boiler and auxiliary steam header.</p> <p><u>Auxiliary Boiler Feedwater Pump</u></p> <p>Three 100-percent capacity auxiliary boiler feedwater pumps are provided to supply feedwater from the auxiliary boiler feedwater tank to the auxiliary boiler.</p> <p><u>Auxiliary Boiler Feedwater Tank</u></p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
		<p>The auxiliary boiler feedwater tank is a 100-percent-capacity tank which collects condensate from the auxiliary steam users. The auxiliary boiler feedwater tank is the source of feedwater for the auxiliary boiler. Makeup water to the tank is supplied from the demineralized water system</p> <p><u>Steam Converter</u></p> <p>The steam converter is a packaged unit consisting of steam converter, feedwater tank, two feedwater pumps, drain tank, drain cooler and auxiliaries. The steam converter heats the condensate with the extraction steam from the high-pressure turbine (or main steam) and generates the auxiliary steam. Condensed heating steam drainage is stored in the drain tank. The drainage is cooled in the drain cooler before flowing to the low pressure feedwater heater drain tank (or main condenser).</p> <p><u>Steam Converter Feedwater Pump</u></p> <p>Two 100-percent capacity steam converter feedwater pumps are provided to supply feedwater from the steam converter feedwater tank to the steam converter.</p> <p><u>Steam Converter Feedwater Tank</u></p> <p>The steam converter feedwater tank is a 100-percent-capacity tank which collects condensate from the auxiliary steam users. The steam converter feedwater tank is the source of feedwater for the steam converter. Makeup water to the tank is supplied from the demineralized water system.</p> <p><u>Auxiliary Steam Drain Tank</u></p> <p>One 100-percent capacity auxiliary steam drain tank is provided to collect condensate from group I auxiliary steam users.</p> <p><u>Auxiliary Steam Drain Tank Pump</u></p> <p>Two 100-percent capacity auxiliary steam drain tank pumps are provided to transfer the condensate from the auxiliary steam drain tank to the steam converter feedwater tank or the auxiliary boiler feedwater tank.</p> <p><u>Auxiliary Steam Drain Monitor Heat Exchanger</u></p> <p>The auxiliary steam drain monitor cooler cools the condensate to below approximately 105°F before flowing</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
		<p>to the radiation monitor. The cooler is a double pipe heat exchanger where the condensed water flows inside a cooling coil and is cooled by component cooling water flowing outside cooling coil.”</p> <p>is changed to</p> <p><u>Auxiliary steam drain tank</u></p> <p>The auxiliary steam drain tank collects the condensed water from group I components</p> <p><u>Auxiliary steam drain tank pump</u></p> <p>The auxiliary steam drain pump transfers the condensed water from the group I components to the condenser during plant normal operation or to the auxiliary boiler in situations in which main steam is not available.</p> <p>The pumps are actuated by the high water level signal of the tank, and then stopped by the low signal. The pumps are also tripped by the auxiliary steam drain monitor high alarm. Two pumps are used by the system, another one is a spare.</p> <p><u>Auxiliary steam drain monitor heat exchanger</u></p> <p>The auxiliary steam drain monitor heat exchanger keeps the temperature of condensed water from the evaporator below the allowable monitor temperature.</p> <p><u>Auxiliary boiler package</u></p> <p>The auxiliary boiler package supplies the auxiliary steam to the group I or II components when main steam is not available. One auxiliary boiler package is installed to per unit.”</p> <p>Technical: The steam converter is not used for making auxiliary steam because of the reason shown below.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>10.4-116</p>	<p>10.4.11.2.3 System Operation</p>	<p>This subsection is changed as shown below.</p> <p><u>“Startup and Shutdown</u></p> <p>The auxiliary boiler supplies auxiliary steam to the Group I, II and III components.</p> <p><u>Normal Operation</u></p> <p>The steam generated by the steam converter is supplied to the Group I and II components. The main steam system supplies steam to the Group III components.</p> <p>The condensed water from the Group I components is collected into the auxiliary steam drain tank and pumped by the auxiliary drain tank pump to the steam converter feedwater tank.</p> <p>The condensed water from the Group II components is returned directly to the steam converter feedwater tank.</p> <p>Operational safety features are provided within the system for the protection of plant personnel and equipment.”</p> <p>is changed to</p> <p><u>“During startup, shutdown and plant reglar maintenance</u></p> <p>The steam generated by the auxiliary boiler is supplied to the group I, II components when main steam is not available. Demineralized water, as feedwater to the auxiliary boiler, is provided from the Condensate Storage Facility to the auxiliary boiler. Condensed water from the group I components is collected in the auxiliary steam drain tank, and the water is transferred to the auxiliary boiler by the auxiliary drain pump.</p> <p><u>During normal operation</u></p> <p>Auxiliary steam from main steam or turbine extracting steam is supplied to the group I and II components. The group II steam is collected to the turbine cycle.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
		<p><u>Leakage of radioactive materials from primary side in the B/A evaporator</u></p> <p>If there is leakage of radioactive materials from the primary side in the B/A evaporator, the auxiliary steam drain tank inlet isolation valve is closed and the auxiliary steam drain pumps are tripped by the auxiliary steam drain monitor high alarm. The high signal is alarmed to the main control room.”</p> <p>Technical: The steam converter is not used for making auxiliary steam because of the reason shown below.</p>
10.4-116	10.4.11.4 Tests and Inspections	<p>Deleted “Testing of the ASSS is performed prior to initial plant operation in accordance with Chapter 14 requirements”.</p> <p>Editorial: No requirements in Chapter 14.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>10.4-117</p>	<p>10.4.11.5 Instrumentation Applications</p>	<p>2nd and 3rd paragraph is changed to as shown below.</p> <p>“A temperature gauge is installed in the outlet line to the auxiliary steam drain radiation monitor. If the temperature reaches 130°F, the inlet stop valve to the auxiliary drain monitor cooler is closed to protect the radiation monitor. The high temperature activates an alarm in the control room.</p> <p>The radiation monitor detects the potential leakage of radioactive materials from the B.A. evaporator. When the concentration of radioactive materials exceeds the set point the auxiliary steam drain tank inlet isolation valve in the condensate line is closed, the auxiliary steam drain tank pump is stopped. A high radiation level activates an alarm in the main control room.”</p> <p>is changed to</p> <p>“The ASSS is provided with the necessary controls and indications for local or remote monitoring of system operation.</p> <p>A temperature gauge is installed at the inlet of the auxiliary steam drain monitor. When the condensed water temperature through the monitor reaches the monitor line high temperature set point, the auxiliary steam drain monitor inlet stop valve is closed and the monitor is protected. High temperature is alarmed in the main control room.</p> <p>The radiation monitor is provided to monitor the leakage of radioactive materials in the condensed water from the B/A evaporator. When the concentration of radioactive material exceeds the set point, the auxiliary steam drain tank inlet isolation valve is closed and auxiliary steam drain tank pump is stopped. High radiation is alarmed in the main control room.”</p> <p>Technical: High alarm set point of the auxiliary steam drain monitor inlet is decided in detail design phase.</p>

US-APWR DCD Chapter 10 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/ Item, table with column/row, or figure)	Description of Change
10.4-118	Figure 10.4-11 Auxiliary Steam Supply System Piping and Instrumentation Diagram	Corrected this figure . Technical: Minor changes are added.
10.4-119	10.4.12 Combined License Information	Delete the statement as for Steam Generator drain from COL 10.4(2) and describe it at COL 10.4(5). Add new COL item COL 10.4(5). Editorial: Clarify statement.
10.4-119	10.4.12 Combined License Information	The COL item 10.4(3) "Secondary Side Chemical Injection System The Combined License applicant is to address the bulk chemical storage tanks and associated transfer pumps selection for the secondary side chemical injection system." is deleted. Technical: This item is applied to typical design.
10.4-119	10.4.12 Combined License Information	The COL item 10.4(4) "Auxiliary Steam System The design of the AS is site specific and is to be addressed by the Combined License Applicant." is deleted. Technical: This item is applied to typical design.

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11-x	FIGURES	<p>Editorial</p> <p>Change “sheets” to “sheet” in Figure 11.2-1 and 11.3-1. (Also the title of these figures are also corrected. Right bar of revised portion is omitted.)</p> <p>Change “drain system” to “drainage system” in Figure 11.2-1 (sheet 3 of 3)</p>
11-xii	ACRONYMS AND ABBREVIATIONS 37 th line	<p>Editorial: abbreviation not necessary</p> <p>The abbreviation of NUREG is deleted.</p>
11.1-1	Section 11.1 3 rd paragraph 2 nd sentence	<p>Editorial: clarified statement</p> <p>The description “NRC Technical Report Designation(Nuclear Regulatory Commision)(NUREG)” is changed to “NUREG”</p>
11.1-1	Section 11.1.1.1 2 nd paragraph 3 rd sentence	<p>Editorial:clarified statement</p> <p>The description “the fuel defect level that would be expected from operating PWR plants” is changed to “the fuel defect level of operating PWR plants”</p>
11.1-6	Section 11.1.3, 2 nd paragraph, 2 nd sentence	<p>Editorial: Correct typographical error</p> <p>Changed “Zn-56” to ” Zn-65 “.</p>
11.1-16	Table11.1-8, 3 rd col., 9 th row	<p>Editorial: Correct typographical error</p> <p>Changed “0.99 (Ru, Cs)” to “0.99 (Rb, Cs)” .</p>
11.2-3	Section 11.2.1.2 Design Criteria The first paragraph of the page	<p>Editorial: Clarify scope of statement</p> <p>Replaced "Treated effluent is normally recycled for plant use ". with "Radwaste systems normally utilize treated effluent for operations such as sluicing and line flushing to minimize effluent discharge".</p>

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.2-3	Section 11.2.1.2 13 th bullet	Editorial: Delete superfluous sentence The statement "The design life of the LWMS is 60 years." is deleted.
11.2-3	Section 11.2.1.3 2 nd bullet	Editorial: Correct typographical error Replaced " Chapter 6, Section 6." with " Chapter 6, Section 6.2".
11.2-3	Section 11.2.1.3 3 rd bullet	Editorial: Correct typographical error Replaced " Chapter 14, Section 14." with " Chapter 14, Section 14.2".
11.2-4	Section 11.2.1.4 Method of Treatment The first paragraph	Editorial: Clarified statement Replaced "Analysis of samples is used so that treated waste meets the recycle and/or release limits. " with "Analysis of samples is used to determine if the treated waste meets the recycle and/or release limits. "

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.2-5	Section 11.2.1.4 Method of Treatment The first paragraph of the page	Editorial: Clarified statement Replaced "The waste is then pumped into disposal drums for offsite disposal and/or treatment. Sorbent can be added to stabilize the liquid waste to meet transportation requirements" with "The waste is neutralized prior to being pumped to waste holdup tanks for further processing or transferred to a container for disposal. Figure 11.2-1 provides flexibility to process chemical effluent either way".
11.2-5	Section 11.2.1.5 Site-Specific Cost-Benefit Analysis The 2nd paragraph	Editorial: Correct typographical error Replaced "gaseous or airborne radioactive effluents" with "radioactive liquid effluents".
11.2-5	Section 11.2.1.5	Editorial: Delete statement including reference which is no longer applicable and add new reference Nuclear Energy Institute(NEI) topical report 07-11 is replaced with RG1.110. And the last sentence of second paragraph is deleted and a description "The COL applicant is to perform a site-specific cost-benefit analysis to demonstrate compliance with the regulatory requirements" is added as third paragraph.

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.2-5	Section 11.2.1.6	<p>Editorial: Provided clarification</p> <p>Replaced</p> <p>“However, connections are provided to forward liquid waste to future mobile systems or temporary equipment at the discretion of the facility operation.”</p> <p>with</p> <p>“However, a space is provided inside the A/B to accommodate future installation of mobile or temporary equipment. Process and utility piping and electrical connections are provided to forward liquid waste to future mobile system or temporary equipment, at the discretion of the facility operation.”</p>
11.2-7	Section 11.2.2 last paragraph of this page	<p>Editorial: Correct typographical error</p> <p>Replaced</p> <p>" Chapter 3, Section 3.2-1."</p> <p>with</p> <p>" Chapter 3, Section 3.2-2."</p>
11.2-8	Section 11.2.2.1 Liquid Waste Processing System Operation The 2nd paragraph	<p>Editorial: Clarify scope of statement</p> <p>Replaced</p> <p>"for recycle for plant use (i.e., pipe flushing) "</p> <p>with</p> <p>"for reuse in radwaste systems (i.e., pipe flushing, sluicing, and SRST tank filling) ".</p>

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.2-8	Section 11.2.2.1 2 nd paragraph	Editorial: Correct statement to refer appropriate table Replaced "...for a day of operation during an AOOs, the average daily input is approximately 4,000 gallons." with "...for a day of operation during AOOs, the average daily input is lesser than this capacity as shown in Table 11.2-19."
11.2-10	Section 11.2.2.1.1 Equipment and Floor Drain Processing Subsystem The 3rd paragraph	Editorial: Clarify scope of statement Replaced "Depending on the sample results and other plant conditions such as condensate inventory, the treated fluid is either:" with "Depending on the sample results and demand for treated water in the radwaste systems, the treated fluid is either:".
11.2-11	Section 11.2.2.1.2.3 Maintenance/Refueling Operations The 2nd paragraph	Editorial: Correct typographical error Replaced "The tank is vented to the CVCS HT." with "The tank is vented to the GWMS."
11.2-13	Section 11.2.2.2.6 Ion Exchange Columns (Demineralizers)	Editorial Replaced "plant make-up water to the SWMS." with "primary make-up water to the SWMS."

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.2-13	Section 11.2.2.2.7 Chemical Drain Subsystem The 2nd paragraph	Editorial: Clarify scope of statement Replaced "This content is then transferred to disposal containers (drums) for transfer to approved offsite processing facilities. Alternatively, sorbing agents are added to stabilize the waste for disposal" with "The waste is neutralized prior to being pumped to waste holdup tanks for further processing or transferred to a container for disposal. Figure 11.2-1 provides flexibility to process chemical effluent either way".
11.2-15	Section 11.2.3.1	Editorial: clarified statement Insert the following text after the last paragraph. "The COL applicant is to calculate doses to members of the public following the guidance of RG 1.109 (Ref 11.2-15) and RG 1.113 using site-specific parameters, and compares the doses due to the liquid effluents with the numerical design objectives of Appendix I to 10 CFR 50 (Ref 11.2-10) and compliance with requirements of 10 CFR 20.1302, 40 CFR 190."
11.2-15	Section 11.2.3.2	Editorial: clarified statement Insert the following text after the last paragraph. "The COL applicant is responsible for providing site-specific hydro-geological data (such as contaminant migration time), and analysis to demonstrate that the potential groundwater contamination resulting from radioactive release due to liquid containing tank failure is bounded by the analysis."
11.2-16	Section 11.2.4 COL 11.2(3)	Editorial: clarified statement Changed "The COL applicant is responsible for radioactive release due to liquid containing tank failure using site-specific parameters." to "The COL applicant is responsible for providing site-specific hydrogeological data (such as contaminant migration time), and analysis to demonstrate that the potential groundwater contamination resulting from radioactive release due to liquid containing tank failure is bounded by the analysis discussed in Subsection 11.2.3.2."

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.2-16	Section 11.2.4 COL 11.2(4)	Editorial: clarified statement Insert "liquid" before "effluents". Insert "with" after "compliance"
11.2-16	Section 11.2.4 COL 11.2(5)	Editorial: Delete statement including reference which is no longer applicable and add new reference The description "and criteria presented in the NEI 07-11 (Ref 11.2-9)" is deleted
11.2-16	Section 11.2.4	Editorial: Add applicable COL item Add new COL item "COL 11.2(6)".
11.2-17	Section 11.2.5 Reference 11.2-9	Editorial: Delete statement including reference which is no longer applicable Reference of NEI 07-11 is deleted
11.2-18	Section 11.2.5 Reference 11.2-21	Editorial: Add applicable reference Add new reference 11.2-21. <u>Cost-Benefit Analysis for Radwaste Systems for Light-Water-Cooled Nuclear Power Reactors.</u> Regulatory Guide 1.110, March 1976.
11.2-21	Table 11.2-3	Editorial: Clarify scope of statement Change the number of A/B Sump Tank, A/B Equipment Drain Sump Tank, and R/B Sump Tank "3" to "1 (each)".
11.2-21, 22	Table 11.2-3	Editorial: Clarify scope of statement Change "nominal" to "effective".
11.2-23	Table 11.2-4, Detergent Drain Tank pump / Detergent Drain Monitor Tank Pump	Editorial: Clarify scope of statement Added "(each)" to Number of pumps.

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.2-23	Table 11.2-4, Chemical Drain Tank Pump	Editorial: Correct typographical error Changed the number of Design flow (gpm) "5" to "20".
11.2-25	Table 11.2-7, 8 th row	Editorial: Correct typographical error Added new row related to DF of Boron Recycle System.
11.2-35,36	Table 11.2-13, Note1	Editorial: Correct typographical error Changed "Ag-100" to "Ag-110".
11.2-39	Table 11.2-16, 2 nd col., 4 th row	Technical: corrected input parameter The parameter of Boric Acid Tank volume(gal) is changed from "6.7E+04" to "6.6E+04" to be consistent with the design value.
11.2-40	Table 11.2-17, 3: Boric Acid Tank	Technical: corrected input parameter The value of Critical Receptor Concentration ($\mu\text{Ci/ml}$) of Cs-134 is changed to incorporate the change of the parameter in table11.2-16.
11.2-43	Table 11.2-19	Editorial: Clarify scope of statement Delete the row of reactor coolant drain to avoid confusing since the reactor coolant drain is normally sent to CVCS Holdup tank and not direct input of LWMS. Also, change the sentence of Note 2 from "Normal volume of reactor coolant drain is sum of CVCS letdown and RCP seal leakage" to "Reactor Coolant Drain includes CVCS letdown and RCP seal leakage and is normally sent to Holdup tanks in CVCS."
11.2-44to46	Figure11.2-1(sheet1of3) to Figure11.2-1(sheet3of3)	Technical: Modification to show more accurate system configuration Replaced figures with revised version.

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.3-2	Section 11.3.1.2 Last bullet	Editorial: Delete superfluous sentence The statement “The GWMS is designed for an operating life of 60 years.” is deleted.
11.3-3	Section 11.3.1.3 Last paragraph	Editorial: Clarify scope of statement Add “as discussed in Section 3.2”.
11.3-4	Title of Section 11.3.1.5	Editorial: clarified statement Changed “Site-Specific Cost Analysis” to “Site-Specific Cost- Benefit Analysis”
11.3-4	Section 11.3.1.5	Editorial: Delete statement including reference which is no longer applicable and add new reference Nuclear Energy Institute(NEI) topical report 07-11 is replaced with RG1.110. And the last sentence of second paragraph is deleted and a description “The COL applicant is to perform a site-specific cost-benefit analysis to demonstrate compliance with the regulatory requirements” is added as third paragraph.
11.3-5	Section 11.3.2 2nd paragraph	Editorial: Clarify scope of statement Add “Piping and instrumentation diagrams (P&IDs) are to be included in the combined license application.”.

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.3-11	Section 11.3.3.1	Editorial: clarified statement Insert the following text after the last paragraph. “The COL applicant is to calculate doses to members of the public following the guidance of RG 1.109(Ref. 11.3-19) and RG 1.111(Ref. 11.3-22), and compare the doses due to the gaseous effluents with the numerical design objectives of 10 CFR 50, Appendix I (Ref. 11.3-3) and compliance requirements of 10 CFR 20.1302(Ref. 11.3-24), 40 CFR 190(Ref. 11.3-25).”
11.3-12	Section 11.3.3.2.1, 1 st paragraph, 1 st sentence	Editorial: clarified statement Replaced “leak of waste gas surge tank” with “waste gas surge tank leak” .
11.3-13	Eq.11.3-4	Editorial: corrected typographical error “A _i ” is replaced with “Q _i ”
11.3-14	Section 11.3.4	Editorial: corrected typographical error Insert “of” before “Guidance”.
11.3-15, 16	Section 11.3.7	Editorial: Delete unnecessary items COL 11.3(1), 11.3(2) , 11.3(4) and 11.3(7) are deleted.
11.3-15	Section 11.3.7 COL 11.3(3)	Editorial: Delete superfluous term Delete “shall be provided”.
11.3-16	Section 11.3.7 COL 11.3(6)	Editorial: Clarify scope of statement Insert “gaseous” before “effluents” Insert “with” after “compliance”

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.3-16	Section 11.3.7 COL 11.3(8)	Editorial: Delete statement including reference which is no longer applicable The description “and criteria presented in the NEI 07-11 (Ref 11.2-9)” is deleted
11.3-16	Section 11.3.7	Editorial: Add applicable COL item Add new COL item “COL 11.3(9)”.
11.3-17	Section 11.3.8 Reference 11.3.11	Editorial: Delete statement including reference which is no longer applicable Reference of NEI 07-11 is deleted
11.3-18	Section 11.3.8	Editorial: Add applicable reference Add new reference 11.3-26. <u>Cost-Benefit Analysis for Radwaste Systems for Light-Water-Cooled Nuclear Power Reactors.</u> Regulatory Guide 1.110, March 1976.
11.3-20,21	Table 11.3-2	Editorial Replace the word of equipment number to “number”.
11.3-24,25	Table 11.3-4 9 th col.	Editorial Changed “Result” to “Result and Criteria” Delete a line of the row of “Result and Criteria”.

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.3-39,40, 41	Figure 11.3-1	<p>Technical: Modification to show more accurate system configuration</p> <p>Replaced figures with revised version (sheet 1of3 and sheet 2of3).</p> <p>Editorial: Clarify scope of statement</p> <p>Changed the Figure title " Gas Management System Piping and Instrumentation Diagram" to "Gaseous Waste Management System Process Flow Diagram".</p>
11.4-3	Section 11.4.1.2 Last bullet	<p>Editorial: Delete superfluous sentence</p> <p>The statement "Permanently installed equipment for the SWMS is designed for 60 years of service." is deleted.</p>
11.4-5	Section 11.4.1.5	<p>Editorial: Delete statement including reference which is no longer applicable and add new reference</p> <p>Nuclear Energy Institute(NEI) topical report 07-11 is replaced with RG1.110.</p> <p>And the word "airborne" is replaced with "liquid", "However," is deleted in the second paragraph.</p>
11.4-13	Section 11.4.3.2	<p>Editorial: Clarify scope of statement</p> <p>Replaced " to submit, or commit to prepare and submit, " with " to provide ".</p>
11.4-13	Section 11.4.3.2 7th sentence,	<p>Editorial: Add applicable reference</p> <p>Added "10 CFR 71 (Ref. 11.4-31)" as new reference.</p>

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.4-14	Section 11.4.3.3	Editorial Insert “activity” in the sixth sentence of the third paragraph.
11.4-17	Each COL Item	Editorial: Correct typographical error Added “COL” before each COL Item Number.
11.4-17	Section 11.4.8 COL 11.4(2)	Editorial: Clarify scope of statement Delete “for overall plant operation and the SWMS operation, including the de-watering processing of the spent resins and filter sludge” to make the sentence simple.
11.4-18	Section 11.4.9, Reference 11.4-5	Editorial: Correct style of reference appropriately Replaced “Disposal of High-Level Radioactive Wastes in Geologic Repositories,” <u>Energy</u> , Title 10, Code of Federal Regulations, Part 60, U.S. Nuclear Regulatory Commission, Washington, DC. with <u>“Disposal of High-Level Radioactive Wastes in Geologic Repositories, NRC Regulations Title 10, Code of Federal Regulations, 10 CFR Part 60.”</u>
11.4-18	Section 11.4.9, Reference 11.4-7,8	Editorial: Correct typographical error Changed “NRC” to “DOT”.
11.4-19	Section 11.4.9 Reference 11.4-18	Editorial: Delete statement including reference which is no longer applicable Reference 11.4-18 is deleted.

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.4-19	Section 11.4.9 Reference 11.4-23	Editorial: Correct to refer latest version Changed "NEI 07-10, Revision 0" to "NEI 07-10, Revision 2".
11.4-20	Section 11.4.9	Editorial: Add applicable reference Added Reference "11.4-31".
11.4-26	Figure 11.4-2	Editorial Replaced figures with revised version.
11.4-27	Figure 11.4-3	Technical: Modification to show more accurate system configuration Replace the figure with revised PFD. (The concentrate tank is deleted.)
11.5-1	Section 11.5, 1 st paragraph, 2 nd bullet	Editorial: clarified statement Deleted the word "on" after the word "alarms".
11.5-2	Section 11.5.1.2, 1 st paragraph, 3 rd bullet	Editorial: clarified statement Changed "are" to "and" before the word "within".
11.5-3	Section 11.5.1.2 1 st paragraph 10 th bullet	Editorial: corrected typographical error Changed " (viii)" to "(xvii)" after "10 CFR 50.34(f)(2)".
11.5-3	Section 11.5.2.1, 1 st paragraph, 2 nd sentence	Editorial: clarified statement Replaced "is contained in one integral unit and are" with "contained in one integral unit is".

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.5-5	Section 11.5.2.2.1, 4 th paragraph, 1 st sentence	Editorial: clarified statement Changed “collector” to “collection”.
11.5-8	Section 11.5.2.3.1	Editorial: clarified statement Insert “of” after “activates closure”
11.5-10	Section 11.5.2.3.6	Editorial: clarified statement Insert “of” after “automatically closing”
11.5-11	Section 11.5.2.4.3	Editorial: clarified statement In the section title, “Monitor” is replaced with “Monitors”
11.5-11	Section 11.5.2.4.3, 2 nd paragraph, 1 st sentence	Editorial: clarified statement Changed “gases” to “gaseous”.
11.5-13	Section 11.5.2.6, 2 nd paragraph, 3 rd sentence	Editorial: clarified statement Changed “Chapter 3” to “Section 3.11”.
11.5-13	Section 11.5.2.6, 3 rd paragraph, 3 rd sentence	Editorial: clarified statement Deleted “remotely positioned” before the “check source”.
11.5-13	Section 11.5.2.6, 3 rd paragraph, 4 th sentence	Editorial: clarified statement Changed “functioning” to “functionality”.
11.5-14	Section 11.5.2.9	Editorial: clarified statement Insert “by” before “the COL applicant”
11.5-14	Title of Section 11.5.2.11	Editorial: clarified statement Changed “Cost Benefit Analysis” to “Site-Specific Cost-Benefit Analysis”

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.5-14	Section 11.5.2.10	Editorial: clarified statement Changed “effluent” to “environmental”.
11.5-14	Section 11.5.2.11	Editorial: Delete statement which is no longer applicable and add new reference Nuclear Energy Institute(NEI) topical report 07-11 is replaced with RG1.110. And the last sentence of first paragraph is deleted and a description “The COL applicant is to perform a site-specific cost benefit analysis to demonstrate compliance with the regulatory requirements” is added as second paragraph.
11.5-14	Section 11.5.3, 1 st paragraph, 1 st sentence	Editorial: clarified statement Insert “containment air and following” after “for” Insert bullets
11.5-15	Section 11.5.3, 3 rd paragraph, 3 rd sentence	Editorial: reflected revision in Chapter 12 Changed “Section 12.4” to “Section 12.5”.
11.5-15	Section 11.5.4 1 st paragraph, 1 st sentence	Editorial: clarified statement Insert “Radiological monitoring and sampling instruments are provided for gaseous and liquid radwaste discharge streams so that GDC 63 (Ref. 11.5-8) is met.”
11.5-15	COL11.5(1)	Editorial: clarified statement Changed “The COL applicant is responsible for the site-specific aspects of the process and effluent monitoring and sampling system in accordance with RGs 1.21, 1.33 and 4.15 (Ref. 11.5-12, 11.5-17, 11.5-14).” to “The COL applicant is responsible for the additional site-specific aspects of the process and effluent monitoring and sampling system beyond the standard design, in accordance with RGs 1.21, 1.33 and 4.15 (Ref. 11.5-12, 11.5-17, 11.5-14).”.

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.5-16	COL11.5(4)	<p>Editorial: clarified statement</p> <p>Changed “The COL applicant is to provide monitoring instruments information which are of inspection, decontamination, and replacement for site-specific matter.” to “The COL applicant is to develop procedures which are of inspection, decontamination, and replacement related to radiation monitoring instruments.”.</p>
11.5-15	Section 11.5.3	<p>Editorial: corrected typographical error and clarified statement</p> <p>Insert “of “ before “10 CFR 20”</p> <p>Delete “in to”</p> <p>Delete “are met”</p>
11.5-15	Section 11.5.4	<p>Editorial: clarified statement</p> <p>Delete “of” located after “minimize”</p> <p>Delete “that” located after “automatic isolation valves”</p> <p>Delete “is attained”</p>
11.5-15,16	Each COL Item	<p>Editorial: clarified statement</p> <p>Added “COL” before each COL Item Number.</p>
11.5-18	Section 11.5.6 Reference 11.5.25	<p>Editorial: Delete statement which is no longer applicable</p> <p>Deleted</p>
11.5-19	Section 11.5.6 Reference 11.5.30	<p>Editorial: reflected reference revised</p> <p>The revised version of the document was released. Therefore, the revision number is changed from 0 to 1.</p>
11.5-19	Section 11.5.6	<p>Editorial: Delete statement which is no longer applicable and add new reference</p> <p>Add new reference 11.5-33.</p> <p><u>Cost-Benefit Analysis for Radwaste Systems for Light-Water-Cooled Nuclear Power Reactors.</u> Regulatory Guide 1.110, March 1976.</p>

US-APWR DCD Chapter 11 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
11.5-35to44	Figure11.5-2a to Figure11.5-2j	Technical: reflected general arrangement revise Updated due to the modification of General Arrangement plan revision.

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12-i	Contents Page Num. of subsection 12.1.4	Changed from "12.1-7" to "12.1-8" Editorial: Corrected typographical error
12-ii thru 12-iii	Structures of subsection	Moved old "12.3.5" to new "12.4" Moved old "12.4" to new "12.5" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12-iii	Contents	Added "Dose to Construction Workers" as 12.4.1.9 Editorial: Provided consistent COL Applicant action with intent of section 12.4
12-iii	Contents	Added "Combined License Information" as 12.4.3 And changed "12.4.3 Reference" to "12.4.4 Reference" Editorial: Provided consistent COL Applicant action with intent of this section
12-iii	Contents	Deleted subsection 12.5.1 and 12.5.2 Editorial: Expression improved for clarity in Section 12.5
12-iv	Page Num. of Table 12.2-1 Table 12.2-2 Table 12.2-3	Changed "12.2-20" to "12.2-14" Changed "12.2-148" to "12.2-18" Changed "12.2-2020" to "12.2-20" Editorial: Corrected typographical error
12-iv	Title of Table 12.2-9	Changed from "Isotopic Composition and Specific Activity of Typical Out-of-Core <u>Crud Deposits</u> " to "Isotopic Composition and Specific Activity of Typical Out-of-Core <u>Corrosion Products in the primary coolant</u> " Editorial: Clarified scope of title
12-vii	Page Num. of Table 12.3-1 Table 12.3-2 Table 12.3-3 Table 12.3-4 Table 12.3-5 Table 12.3-6	Changed "12.3-45" to "12.3-35" Changed "12.3-45" to "12.3-39" Changed "12.3-46" to "12.3-40" Changed "12.3-49" to "12.3-43" Changed "12.3-50" to "12.3-44" Changed "12.3-51" to "12.3-45" Editorial: Corrected typographical error

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12-vii thru 12-viii	Table Num. and Page Num. of Table 12.4-1 thru 12.4-9	<p>Changed "Table 12.3-7" to "Table 12.4-1" Changed "Table 12.3-8" to "Table 12.4-2" Changed "Table 12.3-9" to "Table 12.4-3" Changed "Table 12.3-10" to "Table 12.4-4" Changed "Table 12.3-11" to "Table 12.4-5" Changed "Table 12.3-12" to "Table 12.4-6" Changed "Table 12.3-13" to "Table 12.4-7" Changed "Table 12.3-14" to "Table 12.4-8" Changed "Table 12.3-15" to "Table 12.4-9" and Changed page Num. "12.3-52 thru 12.3-60" to "12.4-8 thru 12.4-16" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.</p>
12-ix	Page Num. of Figure 12.2-3	<p>Changed "12.2-900" to "12.2-90" Editorial: Corrected typographical error</p>
12-ix	Title of Figure 12.3-3	<p>Replaced "Post Accident Radiation Zone Map (<u>1hour After Accident</u>)" with "Post Accident Radiation Zone Map:<u>1 hour After Accident</u>" Editorial: Modified the format of title</p>
12-ix	Title of Figure 12.3-4	<p>Replaced "Post Accident Radiation Zone Map (<u>1day After Accident</u>)" with "Post Accident Radiation Zone Map:<u>1 day After Accident</u>" Editorial: Modified the format of title</p>
12-ix	Title of Figure 12.3-5	<p>Replaced "Post Accident Radiation Zone Map (<u>B1E</u>)" to "Post Accident Radiation Zone Map:<u>1 week After Accident</u>" Editorial: Modified the format of title</p>
12-ix	Title of Figure 12.3-6	<p>Replaced "Post Accident Radiation Zone Map (<u>1month After Accident</u>)" with "Post Accident Radiation Zone Map:<u>1 month After Accident</u>" Editorial: Modified the format of title</p>

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12-ix	Title of Figure 12.3-10	Replaced "The sampling point of the airborne monitors" with "The sampling point of the airborne <u>radioactivity</u> monitors" Editorial: Corrected typographical error
12-x	Acronyms of B. A.	Added " <u>B. A.</u> " for " <u>boric acid</u> " Editorial: Undefined abbreviation defined
12-x	ACRONYMS of IEEE	Replaced "Institute of Electrical <u>anin. Inch, inches</u> " with "Institute of Electrical <u>and Electronics Engineers</u> " Editorial: Corrected typographical error
12.1-1	12.1.1 1st paragraph 3rd line	Replaced "the <u>basic</u> design of US-APWR <u>is...</u> " with "the design <u>and the operation</u> of <u>the</u> US-APWR <u>are...</u> " Editorial: Modified for clarity
12.1-1	12.1.1 2nd paragraph (2nd line)	Replaced "The managers of related <u>sections of Nuclear Energy Systems Engineering Center</u> develop..." with "The managers of related <u>design</u> sections develop..." and moved this paragraph to 1.2.1.1.1 as the last paragraph Editorial: Modified for clarity
12.1-1	12.1.1.1 1st paragraph 1st line	Replaced "...is <u>planned and designed</u> taking into account..." with "...is <u>designed to take</u> into account..." Editorial: Modified for clarity
12.1-1	12.1.1.1 1st paragraph 2nd line	Replaced "... <u>in</u> normal operation..." with "... <u>during</u> normal operation ..." Editorial: Modified for clarity
12.1-1	12.1.1.1 1st paragraph 5th line	Replaced "..., and <u>is then</u> reviewed, ..." with "..., and <u>will be</u> reviewed, ..." Editorial: Modified for clarity
12.1-1	12.1.1.1 1st paragraph 6th line	Replaced "..., during the design phase and..." with "..., during the <u>detail</u> design phase, and..." Editorial: Modified for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.1-2	12.1.1.2 1st paragraph	Added "Operation policies are to comply with 10CFR20 (Reference 12.1-1) and Regulatory Guides (RG) 1.8, 8.8 and 8.10 (Reference 12.1-3, 12.1-4 and 12.1-5) to ensure that occupational radiation exposures are ALARA." as the 1st paragraph Editorial: Clarified scope of this subsection
12.1-2	12.1.1.2 2nd paragraph	Replaced "The Combined License (COL) Applicant will address the activities conducted by management personnel who have plant operational responsibility for radiation protection." with "The activities conducted by management personnel who have plant operational responsibility for radiation protection is described in Subsection 12.1.3." Editorial: Removed superfluous COL Applicant action
12.1-3	12.1.2.1 3rd paragraph 4th bulleted item	Replaced " <u>Provision of means and adequate space to use movable shielding</u> " with " <u>Provisions for movable shielding, such as adequate space for movable shielding</u> " Editorial: Modified for clarity
12.1-3	12.1.2.1 3rd paragraph 6th bulleted item	Separated old 5th bulleted item into new 5th bulleted item and new 6th bulleted item Editorial: Modified for clarity
12.1-4	12.1.2.1 4th paragraph 7th line	Replaced "reduction of <u>time</u> needed time for..." with "reduction of needed time for..." Editorial: Corrected typographic error
12.1-4	12.1.2.2.1 2nd paragraph 1st line	Replaced " <u>GDC</u> strive to minimize..." with " <u>the design criteria</u> strive to minimize..." Editorial: Modified for clarity
12.1-5	12.1.2.2.1 3rd paragraph 5th bulleted item	Replaced "...than <u>is supplied to</u> that area." with "...than <u>the air intake into</u> that area." Editorial: Modified for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>12.1-7 thru 12.1-8</p>	<p>12.1.3</p>	<p>Replaced "The policy considerations regarding plant operations would be developed by the COL Applicant. See Subsection 12.1.4 for the COL information." with "The COL Applicant is to describe how the plant follows the guidance of RG 8.2 (Reference 12.1-7), 8.4 (Reference 12.1-8), 8.6 (Reference 12.1-9), 8.7 (Reference 12.1-10), 8.9 (Reference 12.1-11), 8.13 (Reference 12.1-12), 8.15 (Reference 12.1-13), 8.20 (Reference 12.1-14), 8.25 (Reference 12.1-15), 8.26 (Reference 12.1-16), 8.27 (Reference 12.1-17), 8.28 (Reference 12.1-18), 8.29 (Reference 12.1-19), 8.32 (Reference 12.1-20), 8.34 (Reference 12.1-21), 8.35 (Reference 12.1-22), 8.36 (Reference 12.1-23), and 8.38 (Reference 12.1-24).</p> <p>In addition, the COL Applicant is to provide the operational radiation protection program for ensuring that occupational radiation exposures are ALARA. This program is to be developed, implemented and maintained as described in the Nuclear Energy Institute Technical Report, NEI 07-03 (Reference 12.1-25). The specific CFR criteria referenced in NEI 07-03 shall be met and strictly adhered to. All recommendations and guidance referenced in NEI 07-03 are to be addressed and implemented as applicable to the US-APWR and the plant site."</p> <p>Editorial: Clarified COL Applicant action</p>
<p>12.1-8</p>	<p>12.1.4 1st paragraph</p>	<p>Replaced " The COL Applicant is to demonstrate compliance with RG 1.8 (Reference 12.1-3), 8.8 (Reference 12.1-4), and 8.10 (Subsection 12.1.1.3) (Reference 12.1-5)." with "The COL Applicant is to demonstrate <u>that the policy considerations regarding plant operations are</u> compliance with RG 1.8, 8.8 and 8.10 (Subsection 12.1.1.3)."</p> <p>Editorial: Modified for clarity and deleted the reference number for redundancy</p>
<p>12.1-8</p>	<p>12.1.4 2nd paragraph 3rd line</p>	<p>Deleted "COL 12.1(2)"</p> <p>Editorial: Format and contents for new reactor are established in RG 1.206</p>

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.1-8	12.1.4 3rd paragraph 3rd line	Deleted the reference numbers after the RG's Number Editorial: Deleted the reference number for redundancy
12.1-8	12.1.4 4th paragraph	COL 12.1(4) is deleted Editorial: Integrated into COL 12.1(2)
12.1-8	12.1.4	Added "The COL Applicant is to provide the operational radiation protection program for ensuring that occupational radiation exposures are ALARA." as "COL 12.1(5)" Editorial: Clarified COL Applicant action
12.1-8	Reference 12.1-2	Replaced " <u>Revision 0, Aug 2007</u> " with " <u>Revision 1, Feb 2008</u> " Editorial: Revised edition issued
12.1-9	Reference 12.1-7	Deleted old "Reference 12.1-7" and numbering sequence of the reference number which follow recedes one position Editorial: Cited document deleted in Subsection 12.1.3
12.1-10	Reference 12.1-25	Added "NEI 07-03" as "Reference 12.1-25" Editorial: Document cited in Subsection 12.1.3 by modification
12.2-2	12.2.1.1.2 1st paragraph 3rd line	Replaced " <u>Chapter 11 estimates activity in reactor coolant with both of design and realistic base.</u> " with " <u>Subsection 11.1 estimates the design basis as well as the realistic source terms in the reactor coolant.</u> " Editorial: Clarified the cited section and scope of statement
12.2-2	12.2.1.1.2 1st paragraph 5th line	Replaced "In shielding design, <u>sources of reactor coolant are estimated with using design base methods using ORIGEN code,</u> " with "In shielding design, <u>only the design basis reactor coolant source terms are considered as calculated using the ORIGEN code,</u> " Editorial: Modified for clarity
12.2-2	12.2.1.1.2 4th paragraph	Moved old 6th paragraph to New 4th paragraph Editorial: Clarified scope of this subsection

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.2-2	12.2.1.1.2 4th paragraph 2nd line	Replaced "...due to its short, <u>7.35-s</u> , half-life,..." with "...due to its short, <u>7.35 seconds</u> , half-life,..." Editorial: Clarified indication of the unit of time
12.2-2	12.2.1.1.2 5th paragraph 1st line	Replaced "...and out-of-core <u>crud deposits</u> comprise..." with "...and out-of-core <u>corrosion products</u> comprise..." Editorial: Modified for clarity
12.2-2	12.2.1.1.2 5th paragraph 4th line	Replaced "... <u>Chapter 11, Section 11.1</u> " with "... <u>Chapter 11, Subsection 11.1.1</u> " Editorial: Clarified the cited subsection number
12.2-2	12.2.1.1.2 5th paragraph 8th line	Replaced "...typical out-of-core <u>crud deposits</u> are..." with "...typical out-of-core <u>corrosion products in the primary coolant</u> are..." Editorial: Modified for clarity
12.2-2	12.2.1.1.3 1st paragraph 1st line	Replaced "...(CVCS) <u>consist of</u> ..." with "...(CVCS) <u>are derived from</u> ..." Editorial: Modified for clarity
12.2-3	12.2.1.1.3 1st paragraph 4th line	Replaced "...heat exchangers, <u>other than</u> the regenerative..." with "...The CVCS heat exchangers, <u>except for</u> the regenerative..." Editorial: Modified for clarity
12.2-3	12.2.1.1.3 A. CVCS heat exchanger 4th paragraph	Replaced "...the regenerative heat exchanger <u>account for the removal of radionuclides by the CVCS demineralizers and</u> the volume control tank." with "...the regenerative heat exchanger <u>are derived from the radionuclides contained in the liquid phase of</u> the volume control tank." Editorial: Expression improved for clarity
12.2-3	12.2.1.1.3 B. CVCS demineralizer 1st paragraph 5th line	Replaced "...build up to <u>saturate</u> activities..." with "...build up to <u>saturation</u> activities..." Editorial: Modified for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.2-4	12.2.1.1.4 3rd line	Replaced "...Chapter 11, <u>Section 11.5</u> ." with "...Chapter 11, <u>Subsection 11.5.2</u> ." Editorial: Clarified the cited subsection number
12.2-4	12.2.1.1.5 3rd paragraph 1st line	Replaced " <u>However</u> , in the shielding design, ..." with "In the shielding design," Editorial: Modified for clarity
12.2-4	12.2.1.1.5 3rd paragraph 3rd line	Replaced " <u>In a few decades operation history, fuel defect has reduced and fission products in Reactor Coolant are negligible today.</u> " with " <u>Fission products in the reactor coolant are negligible today due to technological improvements in nuclear fuel integrity resulting in a reduced fuel defect fraction.</u> " Editorial: Expression improved for clarity
12.2-5	12.2.1.1.5 3rd paragraph 5th line	Replaced "And activities of..." with "Activities of..." Editorial: Modified for clarity
12.2-5	12.2.1.1.5 3rd paragraph 6th line	Replaced " <u>The dose rate at SFP water surface is 15 mrem/h caused by the radiation from both of the spent fuel assembly during fuel handling and the contaminated water in SFP.</u> " with " <u>The dose rate due to the radiation from both of the spent fuel assembly during fuel handling and the contaminated water in SFP is 15 mrem/h at the SFP water surface.</u> " Editorial: Expression improved for clarity
12.2-5	12.2.1.1.6 3rd paragraph 5th line	Deleted ", including fission and corrosion products," Editorial: Modified for clarity
12.2-5	12.2.1.1.7 2nd paragraph 3rd line	Replaced "...Chapter 11, Section 11.1" with "...Chapter 11, Section 11.1 <u>and 11.2</u> ." Editorial: Clarified the cited section number

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.2-6	12.2.1.1.8 5th paragraph 3rd line	<p>Replaced "The gamma ray source strengths for this equipment are derived from <u>cold</u> shutdown procedures during which the radioactive gases are stripped from the RCS.</p> <p><u>Since the gases are continuously re-circulated, the gamma ray source strengths for the waste gas compressor and waste gas surge tank are identical. Tables 12.2-46 and 12.2-47 tabulate the activities and gamma ray source strengths for the recirculation equipment.</u>" with "The gamma ray source strengths for the <u>waste gas surge tank</u> are derived from <u>refueling</u> shutdown procedures during which the radioactive gases are stripped from the RCS. Tables 12.2-46 and 12.2-47 tabulate the activities and gamma ray source strengths for the <u>waste gas surge tank.</u>"</p> <p>Editorial: Expression improved for clarity</p>
12.2-7	12.2.1.1.10 7th paragraph 1st line	<p>Replaced "<u>Additional radwaste facilities for dry active waste will be provided by the COL Applicant.</u>" with "<u>If it becomes necessary to install additional radwaste facilities for dry active waste, it is to be provided by the COL Applicant.</u>"</p> <p>Editorial: Expression improved for clarity</p>
12.2-7	12.2.1.1.10 7th paragraph 3rd line	<p>Replaced "<u>The radiation shielding will be provided...</u>" with "<u>Radiation shielding is to be provided...</u>"</p> <p>Editorial: Expression improved for clarity</p>
12.2-7	12.2.1.1.10 8th paragraph	<p>Added "<u>Any additional contained radiation sources that are not identified in subsection 12.2.1, including radiation sources used for instrument calibration or radiography, are to be provided by the COL Applicant.</u>" as 8th paragraph</p> <p>Editorial: Provided consistent COL Applicant action with intent of this section</p>
12.2-8	12.2.1.2.2 2nd paragraph 4th line	<p>Replaced "<u>...as 28 months for the conservativeness.</u>" with "<u>...as 28 months for conservatism.</u>"</p> <p>Editorial: Modified for clarity</p>
12.2-9	12.2.1.2.4 2nd line	<p>Replaced "<u>...Chapter 4, Section 4.2,...</u>" "<u>...Chapter 4, Subsection 4.2.2.3 and 4.2.2.3.3,...</u>"</p> <p>Editorial: Clarified the cited subsection number</p>

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.2-9	12.2.1.2.5 6th line	Added "per centimeters (cm) of " before "drive cable." Editorial: Modified for clarity
12.2-10	12.2.2 7th paragraph 6th line	Replaced "time will be adjusted <u>and</u> personal doses are..." with "occupancy time will be adjusted <u>such that</u> personal doses are..." Editorial: Modified for clarity
12.2-12	12.2.3 COL 12.2(1)	Replaced "The COL Applicant is responsible for the use of any additional contained radiation sources <u>and</u> <u>airborne radioactive materials</u> that are not identified in subsection 12.2.1 <u>and</u> 12.2.2, including radiation sources used for instrument calibration or radiography." with "The COL Applicant is responsible for the use of any additional contained radiation sources that are not identified in subsection 12.2.1, including radiation sources used for instrument calibration or radiography." Editorial: Modified for clarity
12.2-12	12.2.3	Added "The COL Applicant is to provide the detailed design of additional storage space for radwaste and/or additional radwaste facilities for dry active waste." as COL 12.2(2) Editorial: Clarified COL Applicant action
12.2-14 thru 12.2-15	Table 12.2-1	Replaced " <u>Pipe</u> Side" with " <u>Plenum</u> Side" Editorial: Clarified indication of equipment component
12.2-16	Table 12.2-1	Replaced "Refueling Water Auxiliary Tank" with "Refueling Water <u>Storage</u> Auxiliary Tank" Editorial: Corrected typographical error
12.2-26	Table 12.2-9	Changed from "Isotopic Composition and Specific Activity of Typical Out-of-Core <u>Crud Deposits</u> " to "Isotopic Composition and Specific Activity of Typical Out-of-Core <u>Corrosion Products in the primary coolant</u> " Editorial: Clarified scope of title
12.2-75 thru 12.2-78	Table 12.2-58 thru Table 12.2-59	Replaced "Energy Group" with "Gamma Ray Energy" Editorial: Modified for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.2-79 thru 12.2-81	Table 12.2-60 Title	Moved "(Sheet X of 3)" to the end of the title. Editorial: Modified the format of titles
12.2-81	Table 12.2-60 Note 1st sentence	Replaced "Reactor <u>Coolant</u> leak rates were derived from leak from <u>valves in</u> consideration" with "Reactor <u>coolant</u> leak rates were derived from <u>the leakage flow rates of the valves under</u> consideration." Editorial: Modified for clarity
12.2-81	Table 12.2-60 Note 2nd sentence	Replaced "Each Radiation Zone has <u>deferent</u> number of <u>radioactive valves.</u> " with "Each Radiation Zone has <u>a different number of valves handling radioactive fluids.</u> " Editorial: Modified for clarity
12.2-81	Table 12.2-60 Note 3rd sentence 4th sentence	Replaced "Zone V <u>or</u> higher have many component cubicles and valve galleries, <u>and these</u> zones have many radioactive valves." with " <u>Radiation Zones V and</u> higher have many component cubicles and valve galleries. <u>These</u> zones have many radioactive valves." Editorial: Modified for clarity
12.2-81	Table 12.2-60 Note 5th sentence	Replaced "Zone IV <u>have</u> relatively high radiation level corridors, <u>and have not so many</u> radioactive valves." with "Zone IV <u>has</u> relatively high radiation level corridors, <u>but has fewer</u> radioactive valves <u>than Zone V.</u> " Editorial: Modified for clarity
12.2-81	Table 12.2-60 Note 6th sentence	Replaced "Zone III <u>have</u> low radiation level corridors and access areas, and <u>have</u> fewer radioactive valves." with "Zone III <u>has</u> low radiation level corridors and access areas, and <u>has</u> fewer radioactive valves <u>than Zone IV.</u> " Editorial: Modified for clarity
12.2-81	Table 12.2-60 Note 7th sentence	Replaced "As a result, leak rate in Zone V or higher is high, <u>one in Zone IV is middle and one in Zone III is rather low.</u> " with "As a result, <u>the</u> leak rate in Zone V or higher is high, <u>while in Zones IV and III, the leak rates is low.</u> " Editorial: Modified for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.2-82 thru 12.2-87	Table 12.2-61 Title	Moved "(Sheet X of 6)" to the end of the title. Editorial: Modified the format of titles
12.2-82	Table 12.2-61 Note	Replaced " <u>The area in the reactor containment isn't usually entered.</u> " with " <u>There is only limited access to the reactor containment during power operation.</u> " Editorial: Modified for clarity
12.3-5	12.3.1.1.2 1st paragraph 2nd line	Replaced "The features <u>are</u> used in conjunction with the general equipment described in Subsection 12.3.1.1.1, <u>and</u> include that are discussed in the following paragraphs." with "The features used in conjunction with the general equipment described in Subsection 12.3.1.1.1 <u>are</u> discussed in the following paragraphs." Editorial: Modified for clarity
12.3-6	12.3.1.1.2 B. 3rd paragraph, 2nd thru 3rd line	Replaced "(Section <u>12.4</u>)" with "(Section <u>12.5</u>)" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.3-7	12.3.1.1.2 E. Equipment Layout 1st paragraph 2nd line	Replaced "... coolant, <u>and</u> boric acid recycle, ..." with "... coolant, boric acid recycle, ..." Editorial: Modified for clarity
12.3-8	12.3.1.2.1.1 1st paragraph, 2nd line	Replaced "(Section <u>12.4</u>)" with "(Section <u>12.5</u>)" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.3-9	12.3.1.2.1.1 4th paragraph 2nd line	Replaced "...for each plant area under normal/shutdown conditions..." with "...each plant area under normal <u>operation</u> /shutdown condition..." Editorial: Modified for clarity
12.3-9	12.3.1.2.1.1 4th paragraph 3rd line	Added the new sentences " <u>In Figure 12.3-1, the radiation zones for site is indicated on a typical plant arrangement plan. The COL Applicant is to provide the one that is shown on the site-specific plan.</u> " Editorial: Provided consistent COL Applicant action with intent of this section

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-9	12.3.1.2.1.1 5th paragraph, 3rd line	Replaced "Section <u>12.4</u> " with "Section <u>12.5</u> " Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.3-9	12.3.1.2.1.2 2nd paragraph 2nd line	Replaced "...5 mrem/h at 12 <u>in.</u> from..." with "...5 mrem/h at 12" from ..." Editorial: Modified for clarity
12.3-9	12.3.1.2.1.2 3rd paragraph 2nd line	Replaced "...100 mrem/h at 12 in. from..." with "...100 mrem/h at 12" from ..." Editorial: Modified for clarity
12.3-9	12.3.1.2.1.2 4th paragraph 1st line	Replaced " High radiation areas <u>or from any surface that the radiation penetrates</u> are..." with "High radiation areas <u>and enclosures from which radiation emanates</u> are..." Editorial: Modified for clarity
12.3-10	12.3.1.2.1.3 (1)	Replaced "Access <u>limitation to and from</u> radiologically controlled areas (RCAs):" with " Access <u>is limited to the</u> radiologically controlled areas (RCAs) <u>as follows</u> :" Editorial: Modified for clarity
12.3-10	12.3.1.2.1.3 (2)	Replaced " <u>Principles of access control</u> :" with " <u>The principles of access control are incorporated as follows</u> :" Editorial: Modified for clarity
12.3-10	12.3.1.2.1.3 (2) e. 1st line	Added "documents" after "...by Radiation Protection" Editorial: Modified for clarity
12.3-10	12.3.1.2.1.3 (3) d. 3rd line	Replaced "...the radiation control <u>engineer</u> and..." with "...the radiation control <u>personnel</u> and..." Editorial: Modified for clarity
12.3-11	12.3.1.2.1.3 (3) e. 3rd line	Replaced "... does not exceed the values <u>related to</u> controlled areas" with "... does not exceed the value <u>associated with the</u> controlled area." Editorial: Modified for clarity
12.3-11	12.3.1.2.1.4 3rd line	Replaced "Section <u>12.4</u> " with "Section <u>12.5</u> " Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-11	12.3.1.2.2 3rd paragraph, 5th line	Replaced "Section 12.3 and <u>12.4</u> " with "Section 12.3 and <u>12.5</u> " Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.3-12	12.3.2.1 4th paragraph 4th bulleted item	Replaced "(calculated in Chapter 15, <u>Section 15</u>)" with "(calculated in Chapter 15, <u>Subsection 15.6.5.5</u>)" Editorial: Clarified the cited subsection
12.3-13	12.3.2.2.1 1st paragraph 8th line	Deleted "The containment wall is a reinforced, pre-stressed concrete structure, surrounding the nuclear steam supply system." Editorial: Redundant with the 2nd sentence of this paragraph
12.3-13	12.3.2.2.1 1st paragraph 9th line	Changed "4 ft 4 in." to "4'-4'" and also 8 in. " to "3'-8'" Editorial: Modified for clarity
12.3-13	12.3.2.2.2 1st paragraph	Replaced "Zone <u>X</u> " with "Zone <u>VI</u> " Editorial: Corrected typographical error
12.3-13	12.3.2.2.2 2nd paragraph 1st line	Replaced "... <u>a large mass of steel plate</u> ..." with "... <u>a large plate of steel</u> ..." Editorial: Modified for clarity
12.3-13	12.3.2.2.2 2nd paragraph 3rd line	Replaced "9 ft 2 in." with "9'-2'" Editorial: Modified for clarity
12.3-14	12.3.2.2.2 3rd paragraph 1st bulleted item	Replaced "In conjunction with the secondary shield <u>to reduce</u> the radiation level from sources within the reactor vessel and the RCS <u>to allow</u> a limited access..." to "In conjunction with the secondary shield, <u>reduction of</u> the radiation level from sources within the reactor vessel and the RCS, <u>thus allowing</u> a limited access..." Editorial: Modified for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-14	12.3.2.2.2 3rd paragraph 2nd bulleted item	Replaced " <u>The gap between the reactor vessel and the primary shield wall has been designed to minimize neutron streaming to the containment vessel free volume. In addition, this gap region includes a labyrinth arrangement to minimize further streaming.</u> " with " <u>Minimization of neutron streaming to the containment vessel free volume by incorporating a labyrinth style gap between the reactor vessel and the primary shield wall in the structural design.</u> " Editorial: Expression improved for clarity
12.3-14	12.3.2.2.2 3rd paragraph 3rd bulleted item	Replaced " <u>After shutdown, limits of the radiation level from sources within the reactor vessel, allowing remote inspection through penetration and limited access...</u> " with " <u>Limitation of the radiation level from sources within the reactor vessel after shutdown, by utilizing remote inspection through penetrations, thus limiting access...</u> " Editorial: Expression improved for clarity
12.3-14	12.3.2.2.2 3rd paragraph 4th bulleted item	Replaced " <u>Limits of neutron activation...</u> " with " <u>Minimization of neutron activation...</u> " Editorial: Modified for clarity
12.3-14	12.3.2.2.2 4th paragraph 1st line	Replaced "...consists of <u>steel plate reinforced concrete</u> that surrounds RCS equipment,..." with "...consists of <u>a steel reinforced concrete plate</u> that surrounds <u>the</u> RCS equipment,..." Editorial: Modified for clarity
12.3-14	12.3.2.2.2 4th paragraph 8th line	Replaced "4 ft" with "4" Editorial: Modified for clarity
12.3-14	12.3.2.2.3 1st paragraph	Replaced "...in the reactor <u>containing</u> radioactivity..." with "...in the reactor <u>building that contain</u> radioactivity..." Editorial: Modified for clarity
12.3-15	12.3.2.2.3 5th paragraph 6th line	Replaced "2.5 ft" with "2.5" Editorial: Modified for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-15	12.3.2.2.4 2nd paragraph 3rd and 4th line	Replaced "29 ft" with "29" Editorial: Modified for clarity
12.3-15	12.3.2.2.4 2nd paragraph 5th and 6th line	Replaced "11 ft 1 in" with "11'-1" Editorial: Modified for clarity
12.3-15	12.3.2.2.4 3rd paragraph 1st line	Replaced "7 ft 1 in" with "7'-1" Editorial: Modified for clarity
12.3-16	12.3.2.2.4 4th paragraph 1st line	Replaced "The SFPCS shielding (Chapter 9, Section 9.1) is..." with "The SFPCS (Chapter 9, Section 9.1) shielding is..." Editorial: Corrected typographical error
12.3-16	12.3.2.2.7 1st paragraph 2nd line	Replaced "...in Chapter 15, Subsection <u>15.6.5.</u> " with "...in Chapter 15, Subsection <u>15.6.5.5.</u> " Editorial: Clarified the cited subsection number
12.3-17	12.3.2.2.7 5th paragraph 2nd line	Replaced "...in Chapter 15." with "...in Chapter 15, <u>Table 15.6.5-5.</u> " Editorial: Clarified the cited table number
12.3-17	12.3.2.2.7 5th paragraph 2nd line	Replaced "...in Chapter 6, <u>Section 6.4.</u> " with "...in Chapter 6, <u>Subsection 6.4.2.2.</u> " Editorial: Clarified the cited subsection number
12.3-17	12.3.2.2.8 2nd paragraph	Replaced " <u>Administration control of inspection access for fuel transfer tube and access control the access area near seismic gap below fuel transfer tube is to be explained in section 4 of the COL document.</u> " with " <u>Administrative control of the fuel transfer tube inspection and the access control of the area near the seismic gap below the fuel transfer tube is to discussed in Section 12.5 by the COL applicant</u> " Editorial: Expression improved for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-17	12.3.2.3 1st paragraph 3rd line	Deleted "under the plant operating conditions" Editorial: Modified for clarity
12.3-19	12.3.3.2 3rd bulleted item 1st line	Replaced "...Appendix B (Reference 12.3-16) <u>will be</u> satisfied in control room following those hypothetical accidents described in Chapter 15." with "...Appendix B (Reference 12.3-16) <u>is</u> satisfied in <u>the</u> control room following <u>the DBAs</u> described in Chapter 15, <u>Subsection 15.6.5.5.</u> " Editorial: Clarified scope of statement and clarified the cited subsection number
12.3-19	12.3.3.2 4th bulleted item 3rd line	Replaced "...in Chapter 15." with "...in Chapter 15, <u>Subsection 15.6.5.5.</u> " Editorial: Clarified the cited subsection number
12.3-20	12.3.3.3 2nd bulleted item 4th paragraph 3rd line	Deleted "Chapter 1, Section 1.9," Editorial: Clarified the cited chapter and section number
12.3-21	12.3.3.3 3rd bulleted item 2nd paragraph 5th line	Replaced "...in Chapter 1, Section 1.9." with "...in chapter 6, section 6.4 and Chapter 9, Section 9.4" Editorial: Modified the cited chapter and section number
12.3-22	12.3.3.4 2nd bulleted item 1st paragraph 1st line	Replaced "...in the ventilation air, <u>as</u> noble gases and..." with "...in the ventilation air, <u>due to</u> noble gases and..." Editorial: Modified for clarity
12.3-22	12.3.3.4 2nd bulleted item 1st paragraph 3rd line	Deleted "reactor" Editorial: Corrected typographical error

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-22	12.3.3.5 1st paragraph 5th line	Replaced "...in Chapter 1, Section 1.9." with "...in chapter 6, Section 6.4 and Chapter 9, Section 9.4" Editorial: Modified the cited chapter and section number
12.3-22	12.3.3.5 3rd paragraph 1st bulleted item 3rd line	Replaced "and not exceed dose limit for access area." with "and <u>will</u> not exceed <u>the</u> dose limit for <u>the</u> access area." Editorial: Modified for clarity
12.3-22	12.3.3.5 3rd paragraph 1st bulleted item 5th line	Replaced "...will not be <u>level of sufficient magnitude</u> ." with "...will not be <u>high</u> ." Editorial: Modified for clarity
12.3-22	12.3.3.5 3rd paragraph 2nd bulleted item 1st line	Replaced "During and post accident conditions, filters and absorbers in air purification..." with "During <u>accident</u> and post accident conditions, filters and absorbers in <u>the</u> air purification" Editorial: Modified for clarity
12.3-22	12.3.3.5 3rd paragraph 2nd bulleted item 2nd line	Replaced "... <u>system of control room and technical support center</u> , and..." with "... <u>systems for the MCR and the TSC</u> , and..." Editorial: Expression improved for clarity
12.3-23	12.3.3.5 3rd paragraph 5th bulleted item	Replaced " <u>HEPA filter banks that are more than three filter units high, where each filter is 2 ft by 2 ft have a platform to facilitate access to the upper filters.</u> " with " <u>If a HEPA filter has more than three stacked banks, where each bank has 2' by 2' in size, a platform is to be facilitated for access to the upper bank easily.</u> " Editorial: Expression improved for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-23	12.3.4 4th paragraph 3rd line	Replaced "...radiation protection <u>guidelines</u> of 10 CFR 20 (Reference 12.3-2), 10 CFR 50 (Reference 12.3-7), 10 CFR 70 (Reference 12.3-21), and RGs 1.21 (Reference 12.3-22),..." with "...radiation protection <u>requirements</u> of 10 CFR 20 (Reference 12.3-2), 10 CFR 50 (Reference 12.3-7), 10 CFR 70 (Reference 12.3-21), and <u>the guidelines</u> of RGs 1.21 (Reference 12.3-22),..." Editorial: Modified for clarity
12.3-23	12.3.4 7th paragraph	Added "The use of portable instruments, and the associated training and procedures, to accurately determine the airborne iodine concentration in areas within the facility where plant personnel may be present during an accident, in accordance with the requirements of 10 CFR 50.34(f)(2)(xxvii) and the criteria in Item III.D.3.3 of NUREG-0737, are to be provided by the COL Applicant." as 7th paragraph Editorial: Clarified COL Applicant action
12.3-25	12.3.4.1.2 2nd paragraph 3rd bulleted item 1st line	Replaced "...needs to be monitored <u>and detecting</u> ..." with "...needs to be monitored <u>to detect</u> ..." Editorial: Modified for clarity
12.3-25	12.3.4.1.2 2nd paragraph 3rd bulleted item 2nd line	Replaced "...fission products <u>due to design basis accident need to be detected</u> " with "...fission products <u>during a DBA</u> " Editorial: Modified for clarity
12.3-25	12.3.4.1.2 4th paragraph (h)	Added "area" after "...(WMS)" Editorial: Corrected typographical error
12.3-25	12.3.4.1.2 5th paragraph 1st line	Replaced "Furthermore, <u>portable ARMSs are installed in the following locations during the work:</u> " with "Furthermore, <u>during work activities, a portable ARMS is installed in the following locations:</u> " Editorial: Expression improved for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-26	12.3.4.1.3 3rd paragraph 7th line	Replaced "...in the control room and, with the exception of the containment area monitors, indicated and..." with "...in the control room (with the exception of the containment area monitors) <u>and</u> indicated and..." Editorial: Modified for clarity
12.3-26	12.3.4.1.3 3rd paragraph 9th line	Replaced "...near the detector location and the WMS Area Monitor, <u>which alarmed to</u> the personnel..." with "...near the detector location, <u>The WMS Area Monitor alarm also synchronously alerts</u> the personnel..." Editorial: Expression improved for clarity
12.3-28	12.3.4.1.9 2nd paragraph	Deleted the old 3rd paragraph "Alarm setpoints are controlled by plant procedures." Editorial: Redundant with the sentence above
12.3-28	12.3.4.1.9 5th paragraph 2nd line	Replaced "...Zone I radiation area and operators present." with "...Zone I radiation area and <u>the reactor operators are</u> present." Editorial: Modified for clarity
12.3-29	12.3.4.2.1 1st paragraph 1st bulleted item	Replaced "...in the <u>air exhausted from cubicles HVAC exhaust ducts</u> " with "...in the <u>HVAC exhaust ducts of the air exhausted from cubicles</u> " Editorial: Expression improved for clarity
12.3-29	12.3.4.2.2 2nd paragraph	Added "If the gas is detected, the existence of Iodine or other radioactive materials are to be recognized." as second sentence Editorial: Expression improved for clarity
12.3-29	12.3.4.2.2 3rd paragraph	Added "All of these areas are RCA." Editorial: Expression improved for clarity
12.3-29	12.3.4.2.2 4th paragraph	Replaced 1st sentence "The sampling points of the airborne radioactivity monitors are shown in <u>the Figure 12.3-10.</u> " with "The <u>detailed</u> sampling points of the airborne radioactivity monitors are shown in <u>Figure 9.4.3-1.</u> " and deleted old 2nd sentence Editorial: Modified for clarity and cited more adequate figure

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-31	Subsection 12.3.5	Moved to section 12.4 Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.3-32	12.3.6 COL 12.3(2)	Deleted this COL item Editorial: It turned out that the more detailed designs are shown in Fig. 9.4.3-1
12.3-32	12.3.6 COL 12.3(3)	Moved to 12.4 as "COL 12.4(1)" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.3-32	12.3.6	Added "The COL Applicant is to provide the site radiation zones that is shown on the site-specific plant arrangement plan." as COL 12.3(4) and "The COL Applicant is to discuss the administrative control of the fuel transfer tube inspection and the access control of the area near the seismic gap below the fuel transfer tube." as COL 12.3 (5) Editorial: Clarified COL Applicant action
12.3-34	Reference 12.3-29 thru 12.3-33	Moved to Section 12.4 as "Reference 12.4-1 thru 12.4-7" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.3-36	Table 12.3-1 (Sheet 2 of 4)	Added footnote 6) for the south wall thickness of the Volume control tank Room and numbering sequence of footnote advanced Editorial: Modified for clarity
12.3-36	Table 12.3-1 (Sheet 2 of 4)	Added footnote 8) for the floor thickness of A to C-Piping Penetration Area Editorial: Modified for clarity
12.3-37	Table 12.3-1 (Sheet 3 of 4)	Changed the ceiling thickness of Charcoal bed Rooms from " <u>2'-6</u> " " to " <u>4'-1</u> " " due to the modification of general arrangement Technical: Reflected the revise of General Arrangement
12.3-37	Table 12.3-1 (Sheet 3 of 4)	Changed the east wall thickness of A-Spent resin storage tank Room from " <u>2'-8</u> " " to " <u>3'-2</u> " " due to the modification of general arrangement Technical: Reflected the revise of General Arrangement

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-37	Table 12.3-1 (Sheet 3 of 4)	<p>Changed the east wall thickness of B-Spent resin storage tank Room from " <u>2'-8"</u> " to " <u>3'-2"</u> " due to the modification of general arrangement</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-37	Table 12.3-1 (Sheet 3 of 4)	<p>Changed the east wall thickness of Valve Area (adjacent to Charcoal bed Room(a)) from " <u>2'-6"</u> " to " <u>2'-2"</u> " due to the modification of general arrangement</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-37	Table 12.3-1 (Sheet 3 of 4)	<p>Changed the ceiling thickness of Valve Area (adjacent to Spent resin storage tank Room) from " <u>3'-2"</u> " to " <u>2'-4"</u> " due to the modification of general arrangement</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-37	Table 12.3-1 (Sheet 3 of 4)	<p>Added footnote 2) for the ceiling thicknesses of Charcoal bed Rooms and numbering sequence of footnote advanced</p> <p>Editorial: Modified for clarity</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Changed the north, west, floor and ceiling thicknesses of A,B-Waste Demineralizer Room;</p> <p>North wall : from " <u>3'-8"</u> " to " <u>2'-6"</u> "</p> <p>West wall : from " <u>2'-5"</u> " to " <u>3'-9"</u> "</p> <p>Floor wall : from " <u>2'-6"</u> " to " <u>3'-3"</u> "</p> <p>Ceiling : from " <u>4'-0"</u> " to " <u>3'-9"</u> "</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Changed all the thicknesses of C,D-Waste Demineralizer Room;</p> <p>North wall : from " <u>3'-2"</u> " to " <u>3'-4"</u> "</p> <p>East wall : from " <u>2'-5"</u> " to " <u>3'-9"</u> "</p> <p>South wall : from " <u>1'-10"</u> " to " <u>2'-6"</u> "</p> <p>West wall : from " <u>3'-0"</u> " to " <u>3'-9"</u> "</p> <p>Floor : from " <u>2'-6"</u> " to " <u>2'-10"</u> "</p> <p>Ceiling : from " <u>4'-0"</u> " to " <u>3'-9"</u> "</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Added footnote 3) for the east wall of C,D-Waste Demineralizer Room</p> <p>Editorial: Modified for clarity</p>

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Changed the north, west and floor thicknesses of Valve Area;</p> <p>North wall : from " <u>2'-5"</u> " to " <u>2'-10"</u> " West wall : from " <u>2'-8"</u> " to " <u>2'-5"</u> " Floor : from " <u>2'-6"</u> " to " <u>2'-8"</u> "</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Added footnote 7) for the west wall of valve area</p> <p>Editorial: Modified for clarity</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Added the concrete thicknesses of Area for future Waste Mobile Systems and added foot note 8) for the east side</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Changed the elevation of Piping Room, Hold up Tank Piping Area and hold up tank from " <u>13'-6"</u> " to " <u>15'-9"</u> "</p> <p>Editorial: Corrected typographical error</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Changed the north wall thickness of Hold up Tank Piping Area from " <u>3'-4"</u> " to " <u>2'-8"</u> " due to the modification of general arrangement</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Changed the elevation and all the thicknesses of Steam generator blowdown demineralizer Room;</p> <p>Elevation : from " <u>3'-7"</u> " to " <u>25'-3"</u> " North wall : from " <u>2'-10"</u> " to " <u>3'-4"</u> " East wall : from " <u>2'-2"</u> " to " <u>2'-8"</u> " South wall : from " <u>3'-4"</u> " to " <u>2'-6"</u> " West wall : from " <u>2'-6"</u> " to " <u>2'-3"</u> " Floor : from " <u>2'-8"</u> " to " <u>3'-4"</u> " Ceiling : from " <u>3'-4"</u> " to " <u>2'-9"</u> "</p> <p>Technical: Reflected the revise of General Arrangement</p>
12.3-38	Table 12.3-1 (Sheet 4 of 4)	<p>Changed the elevation and all the thicknesses of Valve area;</p> <p>Elevation : from " <u>3'-7"</u> " to " <u>25'-3"</u> " North wall : from " <u>2'-10"</u> " to " <u>3'-4"</u> " East wall : from " <u>2'-2"</u> " to " <u>1'-6"</u> " South wall : from " <u>3'-4"</u> " to " <u>1'-11"</u> " West wall : from " <u>2'-6"</u> " to " <u>2'-4"</u> " Floor wall : from " <u>2'-8"</u> " to " <u>3'-4"</u> " Ceiling : from " <u>3'-4"</u> " to " <u>1'-10"</u> "</p> <p>Technical: Reflected the revise of General Arrangement</p>

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-38	Table 12.3-1 (Sheet 4 of 4) footnote	Added footnote 8) and changed numbering sequence of footnotes due to the rearrange of a row of rooms in Table 12.3-1 Editorial: Modified for clarity
12.3-40 thru 12.3-42	Table 12.3-3 Title	Moved "(Sheet X of 3)" to the end of the title. Editorial: Modified for clarity
12.3-41	Table 12.3-3 (Sheet 2 of 3)	Mission dose changed due to the modification of General Arrangement; 3rd column, 2nd row: from " <u>2.4E-02</u> " to " <u>2.8E-02</u> " 5th column, 2nd row: from " <u>2.4E-05</u> " to " <u>2.8E-05</u> " 3rd column, 5th row: from " <u>4.6E-02</u> " to " <u>5.1E-02</u> " 5th column, 5th row: from " <u>1.2E-04</u> " to " <u>1.3E-04</u> " 3rd column, 8th row: from " <u>2.3E-02</u> " to " <u>1.4E-02</u> " 5th column, 8th row: from " <u>2.3E-05</u> " to " <u>1.4E-05</u> " 3rd column, 9th row: from " <u>3.3E-02</u> " to " <u>3.7E-02</u> " 5th column, 9th row: from " <u>8.1E-05</u> " to " <u>9.2E-05</u> " Technical: Reflected the revise of General Arrangement
12.3-42	Table 12.3-3 (Sheet 3 of 3)	Mission dose changed due to the modification of General Arrangement; 3rd column, 2nd row: from " <u>2.4E-02</u> " to " <u>2.8E-02</u> " 5th column, 2nd row: from " <u>2.4E-05</u> " to " <u>2.8E-05</u> " 5th column, 4th row: from " <u>1.4E-04</u> " to " <u>1.5E-04</u> " 3rd column, 5th row: from " <u>4.6E-02</u> " to " <u>5.1E-02</u> " 5th column, 5th row: from " <u>1.2E-04</u> " to " <u>1.3E-04</u> " 5th column, 7th row: from " <u>2.4E-04</u> " to " <u>2.5E-04</u> " 3rd column, 8th row: from " <u>2.3E-02</u> " to " <u>1.4E-02</u> " 5th column, 8th row: from " <u>2.3E-05</u> " to " <u>1.4E-05</u> " 3rd column, 9th row: from " <u>3.3E-02</u> " to " <u>3.7E-02</u> " 5th column, 9th row: from " <u>8.1E-05</u> " to " <u>9.2E-05</u> " Technical: Reflected the revise of General Arrangement
12.3-46 thru 12.3-129 and 12.3-132	Figure 12.3-1 thru Figure 12.3-6 and Figure 12.3-9	Updated due to the modification of General Arrangement plan revision Technical: Reflected the revise of General Arrangement

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.3-46 thru 12.3-129	Figure 12.3-1 thru Figure 12.3-6	Moved the position of "(Sheet X of Y)" Editorial: Modified the format of titles
12.4-1 thru 12.4-7	Section 12.4	Moved to section 12.4 from 12.3.5 Consequently, all the subsections, tables, figures and references in subsection 12.3.5 are changed to "12.4._" or "12.4-_" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.4-1	Section 12.4 3rd paragraph 2nd line	Replaced "In addition, <u>the plant operator (COL Applicant) will have</u> a radiation protection program in place to assure that radiation exposures <u>will</u> be within limits and ALARA (see Section 12.4)." with "In addition, a radiation protection program in place to assure that radiation exposures <u>is to</u> be within limits and ALARA <u>is described in Section 12.5.</u> " Editorial: Removed superfluous COL Applicant action and clarified scope of statement
12.4-2	Section 12.4 7th paragraph, 4th line	The total station exposure [68.63] is modified to [72.63] This modification is due to reconsideration of the contribution of the occupational doses during Special Maintenance. Technical: Updated to the detailed engineering progress
12.4-2	Section 12.4 9th paragraph, 8th line	Replaced "...the US-APWR <u>should</u> be less than 100..." with "...the US-APWR <u>may</u> be less than 100..." Editorial: Modified for clarity
12.4-2	Section 12.4 10th paragraph, 5th line	Replaced "... <u>the US-APWR design, and the COL Applicant's ALARA program</u> , it is expected that operation of the US-APWR <u>will</u> result in radiation exposures..." with "... <u>and the US-APWR design</u> , it is expected that operation of the US-APWR results in radiation exposures..." Editorial: Modified for clarity
12.4-3	12.4.1 1st paragraph 2nd line	Replaced "The health physics program..." with " <u>The Operational</u> health physics program..." Editorial: Modified for clarity

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.4-5	12.4.1.5 1st paragraph 8th line	Replaced "...shielding materials is used <u>for</u> primary coolant piping." with "...shielding materials is used <u>on the</u> primary coolant piping." Editorial: Modified for clarity
12.4-5	12.4.1.8 1st paragraph 1st line	Deleted "10 CFR 52.79(b) (Reference 12.4-6) relative to the plant area access and the post-accident sampling," Editorial: Uncited requirement in Chapter 1, Subsection 1.9.3
12.4-5	12.4.1.8 1st paragraph 2nd line	Changed "(Reference 12.4-7)" to "(Reference 12.4-6)" Editorial: Numbering sequence receded due to the deletion of the preceded reference
12.4-6	12.4.1.8 2nd paragraph 1st line	Replaced "...in Chapter 15." with "...in chapter 15, <u>Subsection 15.6.5.5.</u> " Editorial: Modified the cited subsection number
12.4-6	12.4.1.9	Added "Dose to Construction Workers" as Subsection 12.4.1.9 Editorial: Clarified COL Applicant action
12.4-6	12.4.3	Added "Combined License Information" as Subsection 12.4.3 Editorial: Clarified COL Applicant action
12.4-7	12.4.4	Deleted old "Reference 12.4-6" and numbering sequence receded due to the deletion of the preceded reference Editorial: The sentence that cited the reference is deleted
12.4-8 thru 12.4-16	Table 12.4-1 thru Table 12.4-9	Moved to Section 12.4 as "Table 12.4-1 thru 12.4-9" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.4-8	Table 12.4-1 7th line	Replaced "Boron Acid (BA)" with "Boric acid" Editorial: Corrected typographical error
12.4-10	Table 12.4-3	Replaced "Boron Acid" with " Boric acid" Editorial: Corrected typographical error

US-APWR DCD Chapter 12 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
12.4-14	Table 12.4-7	Occupational dose estimates during special maintenance is modified to 17.75 due to additional item "Inspection of ICIS guide thimble" Technical: Updated to the detailed engineering progress
12.4-15	Table 12.4-8	The total station exposure is modified to 72.63. This modification is due to reconsideration of the contribution of the occupational doses during Special Maintenance. Technical: Updated to the detailed engineering progress
12.5-1	Section 12.5	Moved to section 12.5 from 12.4 Consequently, all the subsections and references in section 12.4 are changed to "12.5_" or "12.5-_" Editorial: Conformed section/subsection number to the arrangement of chapters of RG-1.206, C.I.12.
12.5-1	Section 12.5	Added "The COL Applicant is to provide the operational radiation protection program for ensuring that occupational radiation exposures are ALARA. This Combined Information is addressed in Subsection 12.1.4." Editorial: Clarified COL Applicant action
12.5-1	Section 12.5	Moved the 1st paragraph of old Subsection 12.4.1 to the 3rd paragraph of Subsection 12.1.3 and deleted the 2nd paragraph of old Subsection 12.4.1 and integrated old Subsection 12.4.2 into Section 12.5. Consequently, old subsection 12.4.3 became unnecessary Editorial: Simplified the structure of this section in order to clarify the COL Applicant action

US-APWR DCD Chapter 13 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
13-i 13.1-2	Title of Subsection 13.1.3	Editorial: Correct Subsection title to take consistency with RG 1.206. Changed “Qualifications of Nuclear Power Plant Personnel” with “Qualifications of Nuclear Plant Personnel”.
13-ii	Subsection 13.6.2.1 through 13.6.2.6	Technical: Incorporate the Physical Security ITAACCC. Add the Subsection regarding the description of Physical Security ITAAC.
13-iv		Editorial: Added the acronyms of DBT, CAS, IDS, and SAS.
13.1-3	Subsection 13.1.5 Item 13.1-1, 13.1-2, and 13.1-5	Editorial: Correct information of document. Put the under line at the title of document.
13.2-1, 2	Subsection 13.2.3 COL 13.2(2), (3)	Editorial: Correct grammatically. Changed “The COL Applicant is to in accordance with NUREG-0800, Section ..., develop training programs for ...” with “The COL Applicant is to develop training programs for ... in accordance with NUREG-0800, Section ...”.
13.3-1	Section 13.3 Fourth sentence of first paragraph	Editorial: Correct information of paragraph. Moved the sentence from prior second paragraph.
13.3-1	Section 13.3 Fifth dash of first bullet	Technical: Change the plant arrangement because of update of detailed engineering. Changed “the auxiliary building (A/B)” with “ the access building (AC/B).”
13.3-4	Subsection 13.3.3	Editorial: Correct grammatically. Changed “... acceptance criteria is ...” with “... acceptance criteria are ...”
13.3-4 13.4-1 13.6-1 13.7-1	Subsection 13.3.4 Subsection 13.4.1 Subsection 13.6.4 Subsection 13.7.1	Editorial: Simplify description. Deleted “referencing the US-APWR certified design” from description of COL information.

US-APWR DCD Chapter 13 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
13.5-1	Subsection 13.5.1 First sentence of first paragraph	Editorial: Correct grammatical error. Changed "...is to be developed by the COL Applicant." to "...are to be developed by the COL Applicant."
13.5-2	Subsection 13.5.3	Editorial: Correct information of COL item. Deleted COL 13.5(2) which is duplicated with COL 13.5(5).
13.6-1	Section 13.6	Editorial: Correct to take consistency with COLA. Separated paragraph after fourth sentence.
13.6-1 through 13.6-4	Subsection 13.6.2 Subsection 13.6.2.1 through 13.6.2.6	Technical: Incorporate the Physical Security ITAACC. Added the description of Physical Security ITAACC.
13.6-4 13.6-5	Subsection 13.6.4	Editorial: Correct information for security ITAAC. Changed "The COL Applicant is to develop the security assessment, plant overall security plan, an implementation schedule for the security programs, and proposed inspection, test, analysis, and acceptance criteria for physical security hardware." to "The COL Applicant is to develop and provide plant overall security plan and implementation schedule for the security programs."
13.6-5	Subsection 13.6.5 Item 13.6-6, 13.6-7, 13.6-8	Technical: Incorporate the Physical Security ITAACC. Added the references regarding the Physical Security.
13.7-1	Section 13.7 Second sentence of first paragraph Subsection 13.7.1	Editorial: Correct information of status of 10 CFR 26. Deleted "(upon the effective date of the new 10 CFR 26)."

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.2-1	14.2.1, fourth bullet of fourth paragraph	Replaced “Engineered safety feature actuation systems (ESFAS) or are required to support or assure operation of ESFAS within design limits” with “Classified as engineered safety feature or classified as required to support or ensure the operation of engineered safety features within design limits”. RAI No.12, 14.02-2
14.2-2 14.2-163	14.2.1, fifth paragraph 14.2.14, Reference 14.2-8	Replaced “10 CFR 52.47 (a)(1)(iv)” with “10 CFR 52.47 (b)(1)”. RAI No.12, 14.02-3
14.2-4	14.2.1.2.2, third bullet	Changed “essential” to “safety-related”. Editorial: Change word to provide specific clarity
14.2-4	14.2.1.2.2, fourth bullet	Added “that could reasonably be expected to occur during the plant’s lifetime, by simulation of the effects of control systems and equipment failures or malfunctions. These failures or malfunctions are well understood through historical operating experience and include, but are not limited to, pump trips, instrument failures or malfunctions, valve failures or malfunctions, and loss of power events. Testing is limited to methods which do not degrade equipment performance or reliability, i.e., nondestructive testing” at the end of this bullet. RAI No.12, 14.02-7
14.2-11	14.2.3.5.f	Added following text at the end of the first paragraph. Quantitative acceptance criteria are consistent with the setpoints and accuracies derived from uncertainty analysis and setpoint determinations as described in Chapter 7, Instrumentation and Controls, and the acceptance criteria included in the Technical Specifications surveillance requirements. Acceptance criteria that are demonstrated using portable measuring and test equipment are adjusted conservatively to account for instrument uncertainty. RAI No 12, 14.02-4
14.2-17	14.2.8.1, the reference section of Reactor Internals Vibration Test	Changed “14.2.12.1.1.7” to “14.2.12.1.7”. Editorial: Correct section reference error

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.2-18 14.2-162	14.2.9 14.2.13, COL14.2(7)	Added “the preparation, review and performance of” before “preoperational and startup testing”. RAI No.12, 14.02-5
14.2-18	14.2.9.1, first sentence	Replaced “legal” to “a”. Editorial: Removed superfluous description
14.2-19	14.2.10.1, second paragraph	Replaced second paragraph with “The 15 prerequisites for fuel loading listed in Section 2.a. of RG 1.68 (Reference 14.2-10), Appendix C is satisfied as described in Subsection 14.2.12.2.1.2”. RAI No.28, 14.02-10
14.2-20	14.2.10.2, last bullet	Changed “hot shutdown” to “hot standby”. Editorial: Correct wording error
14.2-20	14.2.10.2, last paragraph	Deleted “(sec)” after “seconds”. Editorial: Correct use of acronym
14.2-20	14.2.10.3.1, last paragraph	Added the following text at the end of the last paragraph: “In addition, the operability of plant systems and design features that could not be completely tested during the preoperational test phase, because of the lack of an adequate heat source for the reactor coolant and main steam systems, are confirmed. These include the dynamic automatic turbine bypass control test, the pressurizer heater and spray capability and continuous spray verification test, the natural circulation test and the automatic low power steam generator water level control test.” RAI No.28, 14.02-13
14.2-24	Table 14.2-1, Test abstract title of 14.2.12.1.5	Changed “Pressurization” to “Pressurizer”. Editorial: Correct misspelling
14.2-27	Table 14.2-1	Added 14.2.12.2.1.14 “Operational Alignment of Process Temperature Instrumentation Test”. Added “at Power” between “Instrumentation” and “Test” of 14.2.12.2.4.9. RAI No.28, 14.02-20
14.2-32	14.2.12.1.3, D.2	Removed “and oil lift pump”. Editorial: Provided consistency with referenced section.

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.2-35	14.2.12.1.6, D.2	Removed "Subsection 5.4.10 and". Editorial: Delete improper reference
14.2-35, 36	14.2.12.1.7, D.1 and 2	Replaced "1.Alternating stress levels of each component estimated from the measured strains are acceptably low in comparison with the limit for high cycle fatigue in ASME code. 2.An inspection of the reactor vessel and internals, following a period of full-flow operation sufficient to detect run-in type failures, has been performed, and no structural damages and changes are apparent (see Subsection 3.9.2.6)." with "1.Alternating stress levels are acceptably low in comparison with the limit for high cycle fatigue in the ASME code. 2.No structural damage or change is observed in post-test inspections (see Subsection 3.9.2.6)" Editorial: Correct text to be similar to Tier 1 acceptance criteria
14.2-37	14.2.12.1.9, B.4 and B.5	Split the sentences of B.4 to the first sentence as B.4 and the second sentence as B.5. Editorial: Correct typographical error
14.2-54	14.2.12.1.26, D.1 and D.2	Deleted the reference section "(see Subsection 10.2.2). Editorial: Delete improper reference
14.2-67~70	14.2.12.1.44, A.1~13, C.2, C.5~8, C.10~14, and D.2~12	Changed "emergency generator" to "Class 1E gas turbine generator". Added the objective, test method, and acceptance criteria to specify the guidance of RG 1.9. RAI No.12, 14.02-3
14.2-72	14.2.12.1.46, D.2	Deleted "is" from "is can be". Editorial: Correct typographical error

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.2-78, 79	14.2.12.1.53, A.3, A.4, C.3, C.4, D.2, D.3	<p>Added new objective as A.3.</p> <p>Changed the previous objective number "A.3" to "A.4", and changed "A.4" to "(Note)".</p> <p>Added new test method as C.3.</p> <p>Changed the previous test method number "C.3" to "C.4".</p> <p>Added new test method as D.2.</p> <p>Changed the previous test method number "D.2" to "D.3".</p> <p>RAI No.12, 14.02-3</p>
14.2-85	14.2.12.1.59, D.1	<p>Added reference section "6.3.2.2.3".</p> <p>Editorial: Provide section reference to clarify</p>
14.2-89	14.2.12.1.66, C.2	<p>Deleted "high temperature signals and".</p> <p>Editorial: Correct the description to meet system function description</p>
14.2-93	14.2.12.1.71, D.1	<p>Added "of Chapter 16" at the end of the sentence.</p> <p>Editorial: Provide chapter number reference to clarify</p>
14.2-96, 97	14.2.12.1.76	<p>Note was added in Clause A and C.4.</p> <p>Added B.3 through B.5.</p> <p>Added C.3 and C.7.</p> <p>Changed item number of former C.3, C.4, and C.5 to current C.4, C.5, and C.6, respectively.</p> <p>Changed "to approximately 50° F" to "by approximately 50° F".</p> <p>RAI No.28, 14.02-22</p>
14.2-98	14.2.12.1.77, A.1	<p>Deleted "Other leakage detection systems in LWMS are described in Subsection 14.2.1.80".</p> <p>Editorial: Delete improper reference and provide consist description with referenced section</p>
14.2-99	14.2.12.1.79, A.1 and D.1	<p>Replaced "containment low volume purge system" with "containment purge system" in A.1.</p> <p>Deleted "and" before "as described" in D.1.</p> <p>Editorial: Provide consistent system name and correct typographical error</p>

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.2-103	14.2.12.1.83, D.1	Deleted “and” before “Subsection 9.3.2.2” and “and Table 10.3.5-1”. Editorial: Delete improper reference
14.2-107	14.2.12.1.87, D.3	Deleted “(Subsection 9.2.2) at the end of the text. Editorial: Delete improper reference section.
14.2-123	14.2.12.1.107, D.2	Changed “5.4.11.1” to “5.4.10”. Editorial: Correct to adequate reference section
14.2-127	14.2.12.2.1.1, B	Replaced eight prerequisites with 16 prerequisites in clause B, Prerequisites. RAI No.28, 14.02-14
14.2-128	14.2.12.2.1.1, C.5	Added item C.5. RAI No.28, 14.02-15
14.2-129	14.2.12.2.1.2, B.2	Added item B.2, “SSCs required by Technical Specifications to support a specified operational mode shall be operational prior to the initiation of precritical testing”. RAI No.28, 14.02-17
14.2-129	14.2.12.2.1.2, C.1	Changed “hot shutdown” to “hot standby” in C.1. Editorial: Correct wording error
14.2-130	14.2.12.2.1.4, A.3	Changed “8 hour” to “12 hour”. Editorial: Provide a consistent value with Technical Specification
14.2-131	14.2.12.2.1.5, A.1	Changed “To determine the rod drop time of each RCCA under full-flow conditions and no-flow conditions, with the reactor (at normal operating temperature and pressure).” to “To determine the rod drop time of each RCCA with the reactor under full-flow conditions and no-flow conditions during cold shutdown and hot standby (at normal operating temperature and pressure).” RAI No.28, 14.02-18
14.2-131	14.2.12.2.1.5, C.3	Changed “hot shutdown” to “hot standby” in C.3. Editorial: Correct wording error

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.2-132	14.2.12.2.1.6, D.1	Replaced "1. The CRDMs operate in accordance with design requirements as described in Subsection 3.9.4 and Subsection 7.7.1.3." with "1. The CRDM mis-stepping is not observed." Editorial: Change text to provide specific clarity
14.2-135	14.2.12.2.1.10, D.1	Added "of Chapter 16" at the end of the sentence. Editorial: Provide chapter number reference to clarify
14.2-136	14.2.12.2.1.12, B.4	Changed "hot shutdown" to "hot standby". Editorial: Correct wording error
14.2-136, 137	14.2.12.2.1.14	Added new test abstract 14.2.12.2.1.14. (This test abstract was separated from former 14.2.12.2.4.9.) RAI No.28, 14.02-20
14.2-138	14.2.12.2.2.2, B.7	Added item 7 "Rod withdrawal sequences and patterns during the initial approach to criticality are the same as those during subsequent startups" in clause B, Prerequisites. RAI No.28, 14.02-12
14.2-141	14.2.12.2.3.3, D.1	Added "the" between "with" and "acceptance". Replaced "design requirements" with "design documentation". Editorial: Provide consistent wording
14.2-141	14.2.12.2.3.4, D.2	Changed to plural "RCCAs". Editorial: Correct component description
14.2-142	14.2.12.2.3.5, B.2, D.1	Changed "zero percent power" to "zero power". Replace "consistent with the power distribution assumed in the safety analysis" with "agree with the acceptance criteria of the design document". Editorial: Provide consistent wording and change word to provide specific clarity.
14.2-144	14.2.12.2.3.8, D.2	Changed "5.4.11.1" to "5.4.10". Editorial: Correct to adequate reference section

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.2-148	14.2.12.2.4.4, D.1	Replaced “core flux distributions” with “power distribution”. Editorial: Change word to provide specific clarity.
14.2-149 14.2-166	14.2.12.2.4.5, B.1 Table 14.2-3	Replaced “power levels (50%, 100%)” with “power level (50%)”. Editorial: Correct power level condition
14.2-149	14.2.12.2.4.5, D.1	Removed “within Chapter 16 Technical Specification limits and are”. Editorial: Removed superfluous description
14.2-150	14.2.12.2.4.6, A., B.2, B.4-B.6, C.4-C.6	Note was added in Clause A. Replaced “equipment” with “control” in B.2. Added B.4 through B.6. Added C.4 through C.6. RAI No.28, 14.02-22
14.2-152, 153	14.2.12.2.4.9, title, A.1, C.1, D.2	Changed subsection title “Operational Alignment of Process Temperature Instrumentation Test” to “Operational Alignment of Process Temperature Instrumentation at Power Test (Continuation of 14.2.12.2.1.14)”. Deleted “under isothermal conditions prior to criticality and” in A.1 and added “conditions” at the end of the sentence. Deleted “at isothermal conditions prior to criticality and” in C.1. Deleted “at power and 0.5% at isothermal conditions” in D.2. RAI No.28, 14.02-20
14.2-162	14.2.13, COL 14.2(1)	Deleted first sentence “The ITP described in this chapter only addresses those systems and components within the US-APWR” of COL 14.2(1). Editorial: Removed superfluous description

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.2-165	Table 14.2-2, Item 1: RG 1.9 Item 10: RG 1.68.2 Item 18: RG 1.206	<p>Changed the title “Selection, Design, and Qualification of Diesel-Generator Units Used as Onsite Electric Power Systems at Nuclear Power Plants” of RG 1.9 to “Application and Testing of Safety-related Diesel Generators in Nuclear Power Plants”.</p> <p>Changed the issuance date “April 1978” of RG 1.68.2 to “July 1978”.</p> <p>Changed the issuance date “May 2007” of RG 1.206 to “June 2007”.</p> <p>RAI No.7, 14.02-1</p>
14.2-165	Table 14.2-2,	<p>Added new reference No.19 “Regulatory Guide 1.163, “Performance-Based Containment Leak-Test Program,” September 1995”.</p> <p>RAI No.12, 14.02-3</p>
14.3-1	14.3	<p>Deleted “that applies to DCDs” in third paragraph.</p> <p>Editorial: Removed superfluous description</p>
14.3-3	14.3.1.2, ninth bullet	<p>Replaced the definition of “design plant grade” with the following for clarification</p> <p>Design plant grade means the elevation of the soil around the nuclear island assumed in the design (i.e., “plant grade” or “finished grade level”) in relation to plant structures to which other plant elevations are correlated and which is set at 2’-7”.</p> <p>Editorial: Clarify scope of statement</p>
14.3-7	14.3.3.2, seventh bullet	<p>Deleted underline of “Boiler and Pressure Vessel Code”.</p> <p>Editorial: Correct typographic error</p>
14.3-11 through 14, 16, 18, 20 through 23	14.3.4.1 through 14.3.4.14	<p>Changed past tense “was” of the first sentence in each subsection to present tense “is”.</p> <p>Editorial: Correct grammatical error</p>

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.3-22	14.3.4.12 First paragraph	<p>Replaced</p> <p>“Section 2.12 of Tier 1 which addresses physical security hardware, was prepared in accordance with the guidance in RG 1.206 (Reference 14.3-1), SRP 14.3 (Reference 14.3-2), and SRP 13.6.2 (Reference 14.3-34). ITAAC for physical security hardware provide for verifying the following:</p> <ul style="list-style-type: none"> • Physical barriers, particularly the location of vital equipment within a vital area located in a protected area • The design of bullet-resistant features of the control room, the central alarm station, and the last access control function for the protected area • Provisions for locking all unoccupied vital areas and protecting them with intrusion alarms • That alarm annunciation occurs in the central alarm station and at least one other continuously manned station” <p>with</p> <p>“Section 2.12 of Tier 1 which addresses physical security hardware is based on the generic set of physical security hardware ITAAC that has been developed by the Nuclear Energy Institute in coordination with the NRC as described in Appendix C.II.1-C of RG 1.206 (Reference 14.3-1). These ITAAC are consistent with the guidance provided in SRP 14.3 (Reference 14.3-2) and SRP 13.6.2 (Reference 14.3-34)”.</p> <p>Technical: The generic set of physical security hardware ITAAC, which has been developed by the NEI in coordination with the NRC, is incorporated into the Tier1.</p>
14.3-22	14.3.4.12	<p>Deleted the third paragraph.</p> <p>Editorial: This COL item is discussed into the DCD.</p>
14.3-24	14.3.6	<p>Deleted COL 14.3(3).</p> <p>Editorial: This COL item is discussed in the DCD.</p>
14.3-34	Table 14.3-1	<p>Changed “Subsection 15.6.5.2.1” to “Subsection 6.2.1 and Table 6.2.1-5”.</p> <p>Editorial: Correct reference error</p>

US-APWR DCD Chapter 14 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
14.3-42	Table 14.3-6	Deleted “and” and insert “and sampling” before “system” in PERMS Editorial: Correct use of acronym
14A-1	Table 14A-1 1.a.(2)(a) 1.a.(2)(g)	Added “Water” before “Level” in “Typical Test” column. Editorial: Provide consistent test abstract name
14A-3	Table 14A-1 1.d.(9)	Replaced “14.2.12.1.24 and 25” with “14.2.12.1.109”. Editorial: Correct reference error
14A-12	Table 14A-1 1.n.(2)	Added “Essential Chilled Water System Preoperational Test” and “14.2.1.12.60” in the table. Editorial: Add the section reference as applicable to clarify

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15-x 15-xi	Contents of section 15.6.4 to 15.6.7	Editorial Revised page numbers of the table of contents from section 15.6.4 to 15.6.7
15-xiii	Title of subsection 15A.2.6	Editorial Corrected the event name. Replaced "Small Line Break" with "Failure of Small Lines Carrying Primary Coolant Outside Containment"
15-xiv	Title of Table 15.0-12 in Table list	Editorial Clarified the scope of statement. Added "DE" as following; "Reactor Coolant Noble Gases Concentration for 300 μ Ci/g DE Xe-133"
15-xiv	Title of Table 15.0-13 in Table list	Editorial Clarified the scope of statement. Replaced "Atmospheric Dispersion Factors and Breathing Rate" with "Offsite χ /Q and Breathing Rate"
15-xvii 15-xviii	Page numbers of Table 15.6.5-1 to 15.6.5-16	Editorial Revised page numbers of Table 15.6.5-1 to 15.6.5-16
15-xxv	Title of Figure 15.1.4-9	Editorial Clarified the scope of statement. Added "versus Time" in the end of the title of Figure 15.1.4-9.
15-xxxv	Page numbers from Figures 15.4.7-1 to 15.4.7-4	Editorial Revised page numbers of Figures 15.4.7-1 to 15.4.7-4.
15-xxxviii 15-xxxix	Figure 15.6.3-7 Figure 15.6.3-19	Editorial Clarified the scope of statements. Added the word "Integrated" to the beginning of the title of each figure.

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15-xxxviii 15-xxxix	Figure 15.6.3-11 Figure 15.6.3-12 Figure numbers and page numbers of Figure 15.6.3-11 to Figure 15.6.3-19	Editorial Clarified the scope of statements. Added the new figures for feedwater flow rate and safety depressurization valve flow rate. Revised figure numbers of Figure 15.6.3-11 to 15.6.3-17 as Figure 15.6.3-13 to 15.6.3-19, respectively. Revised page numbers of the table of figures from Figures 15.6.3-11 to 15.6.3-19.
15-xxxix	Figure 15.6.3-20 Figure 15.6.3-21	Editorial Clarified the scope of statement. Added new figures for feedwater flow rate and safety depressurization valve flow rate.
15-xxxix 15-xl 15-xli	Page numbers from Figures 15.6.5-1 to 15.6.5-43	Editorial Revised page numbers of Figures 15.6.5-1 to 15.6.5-43
15.0-20	Second paragraph in subsection 15.0.3.1.2	Editorial Clarified the scope of statement. Replaced "atmospheric dispersion factor, χ/Q value)." with "the atmospheric dispersion factor (χ/Q value)."
15.0-20	Third paragraph in subsection 15.0.3.1.2	Editorial Clarified the scope of statement. Replaced "atmospheric dispersion factor, χ/Q value)." with "the χ/Q value."
15.0-22	Second sentence of sixth paragraph in subsection 15.0.3.1.4	Editorial Clarified the scope of statement. Replaced "listed in Table 2.0-1 of Chapter 2." with "listed in Table 15.0-13."
15.0-22	Fourth sentence of second paragraph in subsection 15.0.3.2	Editorial Clarified the scope of statement. Replaced "megawatts thermal per metric ton of uranium (MW/MTU)" with "MW/MTU"

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.0-22	Fifth sentence of second paragraph in subsection 15.0.3.2	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "gigawatt days per metric ton of uranium (GWD/MTU)" with " GWD/MTU"</p>
15.0-23	Second paragraph in subsection 15.0.3.3	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced " The dispersion values are determined by representative values at the corresponding EAB and LPZ distance selected from offsite atmospheric dispersion factor" with " The offsite χ/Q values are determined by representative values at the corresponding EAB and LPZ distance selected from the χ/Q value"</p>
15.0-23	Third paragraph in subsection 15.0.3.3	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "The atmospheric dispersion factors" with "The χ/Q values"</p>
15.0-23	The last paragraph subsection 15.0.3.3	<p>Editorial</p> <p>Reflected the added COL Item.</p> <p>After last paragraph, the following paragraph is added,</p> <p>"In the COLA, if the site-specific χ/Q values exceed DCD χ/Q values, then the COL Applicant is to demonstrate how the dose reference values in 10 CFR 50.34 and the control room dose limits in 10 CFR 50, Appendix A, General Design Criteria 19 are met for affected events using site-specific χ/Q values."</p>

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.0-24	The subsection 15.0.4	<p>Editorial</p> <p>Reflected the added COL Item.</p> <p>Replaced “No additional information is required to be provided by a COL applicant in connection with this section. In the COLA, the site-specific χ/Q values are used in determining the radiological consequences of postulated accidents.” with "In the COLA, if the site-specific χ/Q values exceed DCD χ/Q values, then the COL Applicant is to demonstrate how the dose reference values in 10 CFR 50.34 and the control room dose limits in 10 CFR 50, Appendix A, General Design Criteria 19 are met for affected events using site-specific χ/Q values."</p>
15.0-26 15.0-34	Table 15.0-1 Table 15.0-6	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Changed the word “HZP” to “Hot standby” in steam system piping failure event.</p>
15.0-37	The name of events in Table 15.0-11	<p>Editorial</p> <p>Corrected the event name.</p> <p>Replaced "MSLB" with "Steam System Piping Failure"</p>
15.0-38	Title of table 15.0-13	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "Atmospheric Dispersion Factors" with "Offsite χ/Q"</p>
15.0-38	Note of table 15.0-13	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced “Atmospheric dispersion factors” with “The χ/Q values”</p>
15.0-39 to 15.0-42	Notes of Table 15.0-14 (sheet 1 to 4)	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "(Ref. 15A.5-1)" with "(Ref. 15.0-16)"</p>
15.0-44	Seventh row of first column in Table 15.0-17	<p>Editorial</p> <p>Corrected the event name.</p> <p>Replaced "RCCA ejection accident" with "Rod ejection accident"</p>

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.1-5	Subsection 15.1.1.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.1-17	Subsection 15.1.2.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.1-29	Subsection 15.1.3.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.1-90	Second bullet in subsection 15.1.5.5.1	Editorial Clarified the scope of statement. Replaced "The atmospheric dispersion factors used in the analysis were described in Chapter 2. Additional information is provided in Section 15.0.3.3" with "The atmospheric dispersion factors (χ/Q values) used in the analysis are described in Section 15.0.3.3"
15.1-90	Third bullet in subsection 15.1.5.5.1	Editorial Clarified the scope of statement. Replaced "a receptor at the exclusion area boundary" with "a receptor at the EAB"
15.1-90	Fourth paragraph in subsection 15.1.5.5.1	Editorial Clarified the scope of statement. Replaced "Figure 15A-3 provides a graphical representation of the computational model used to determine the dose due to leakage sources." with "Figure 15A-3 depicts the leakage sources to the environment modeled in the dose computation."
15.1-90	First sentence of fifth paragraph in subsection 15.1.5.5.1	Editorial Clarified the scope of statement. Replaced "is released directly to the environment." with "is assumed to be released directly to the environment."

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.1-91	Third paragraph in subsection 15.1.5.5.2 (2)	Editorial Clarified the scope of statement. Replaced "Xe-133 DE" with "DE Xe-133"
15.1-91	Last paragraph in subsection 15.1.5.5.2 (2)	Editorial Clarified the scope of statement. Replaced "those covered in Appendix E" with "those identified in Appendix E"
15.1-91	Last paragraph in subsection 15.1.5.5.2 (2)	Editorial Corrected reference number. Replaced "(Ref. 15.1-4)" with "(Ref. 15.1-3)"
15.1-91	The second paragraph from last in subsection 15.1.5.5.2 (2)	Editorial Clarified the scope of statement. Replaced "Atmospheric dispersion factors" with "The χ/Q values"
15.1-95	Table 15.1.5-2	Editorial Clarified the scope of statement. Replaced "Atmospheric dispersion factors" with " χ/Q "
15.1-95	Third row from bottom in Table 15.1-20 (Sheet 2 of 2)	Editorial Clarified the scope of statement. Replaced "See Tables 2.0-1 and 15.0-13" with "See Table 15.0-13"
15.1-123	The subsection 15.1.6	Editorial Clarified the scope of statement. Deleted "In the COLA, the radiological consequences of steam system piping failure will be evaluated using the site-specific χ/Q values."
15.2-3	Subsection 15.2.1.2	Editorial Corrected 115-V of ac instrumental and control power system buses to 120-V.

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.2-6	Subsection 15.2.1.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.2-17	Subsection 15.2.2.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.2-18	Subsection 15.2.3.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.2-20	Subsection 15.2.4.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.2-27	Subsection 15.2.6.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.2-44	Subsection 15.2.7.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.2-61	15.2.8.4.2	Editorial Clarified the scope of statement. Replaced "Therefore, initial steam generator water levels are conservatively assumed at the low steam generator water level setpoint for all steam generators" with "That is, steam generator water levels are at the low steam generator water level setpoint for all steam generators when the break occurs"

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.2-63	Subsection 15.2.8.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.3-37	Second bullet in subsection 15.3.3.5.1	Editorial Clarified the scope of statement. Replaced "The atmospheric dispersion factors used in the analysis are described in Chapter 2. Additional information is provided in Section 15.0.3.3" with "The atmospheric dispersion factors (χ/Q values) used in the analysis are described in Section 15.0.3.3"
15.3-38	First sentence of third paragraph in subsection 15.3.3.5.1	Editorial Clarified the scope of statement. Replaced "is released directly to the environment." with "is assumed to be released directly to the environment."
15.3-38	Second bullet and third bullet of third paragraph in subsection 15.3.3.5.2	Editorial Clarified the scope of statement. Interchanged second and third bullet.
15.3-39	The second paragraph from last In Subsection 15.3.3.5.2	Editorial Clarified the scope of statement. Replaced "Atmospheric dispersion factors" with "The χ/Q values"
15.3-39	The second paragraph from last In Subsection 15.3.3.5.2	Editorial Corrected reference number. Replaced "NRC Regulatory Guide 1.183(Ref.15.3-5)." with " NRC Regulatory Guide 1.183(Ref.15.3-4)."
15.3-39	The last paragraph In Subsection 15.3.3.5.2	Editorial Corrected reference number. Replaced "Appendix G of RG 1.183 (Ref.15.3-5)." with " Appendix G of RG 1.183 (Ref.15.3-4)."
15.3-41	Third row from bottom in Table 15.3.3-4	Editorial Clarified the scope of statement. Replaced "Atmospheric dispersion factors" with " χ/Q "

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.3-41	Third row from bottom in Table 15.3.3-4	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "See Tables 2.0-1 and 15.0-13" with "See Table 15.0-13"</p>
15.3-55	The subsection 15.3.5	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Deleted "In the COLA, the radiological consequences of RCP rotor seizure are evaluated using the site-specific χ/Q values."</p>
15.4-37	15.4.3.3.1.2	<p>Editorial</p> <p>Corrected the unit of the reactivity.</p> <p>Replaced "$\Delta k/k$" with "$\% \Delta k/k$".</p>
15.4-40	15.4.3.3.3.2	<p>Editorial</p> <p>Corrected the event name.</p> <p>Replaced "the RCCA Drop" with "the single RCCA withdrawal" in the end of the third bullet in this subsection.</p>
15.4-73	Second bullet in subsection 15.4.8.5.1	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "The atmospheric dispersion factors used in the analysis are described in Chapter 2. Additional information is provided in Section 15.0.3.3" with "The atmospheric dispersion factors (χ/Q values) used in the analysis are described in Section 15.0.3.3"</p>
15.4-75	The second paragraph from last in subsection 15.4.8.5.2	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "Atmospheric dispersion factors" with "The χ/Q values"</p>
15.4-80	17th row in Table 15.4.8-3 (sheet 2 of 2)	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "Operation time of containment spray system (min)" with "Initiating time of containment spray system (min)"</p>

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.4-80	Third row from bottom in Table 15.4.8-3 (Sheet 2 of 2)	Editorial Clarified the scope of statement. Replaced " Atmospheric dispersion factors" with " χ/Q "
15.4-80	Third row from bottom in Table 15.4.8-3 (Sheet 2 of 2)	Editorial Clarified the scope of statement. Replaced "See Tables 2.0-1 and 15.0-13" with "See Table 15.0-13"
15.4-96	The subsection 15.4.10	Editorial Clarified the scope of statement. Deleted "In the COLA, the radiological consequences of RCCA ejection accident are evaluated for using the site-specific χ/Q values."
15.5-5	Subsection 15.5.2.5	Editorial Corrected the event name. Replaced "main steam line break accident" with "steam system piping failure"
15.6-16	Second bullet in subsection 15.6.2.5.1	Editorial Clarified the scope of statement. Replaced "The atmospheric dispersion factors used in the analysis are described in Chapter 2 of the US-APWR DCD. Additional information is provided in Section 15.0.3.3" with "The atmospheric dispersion factors (χ/Q values) used in the analysis are described in Section 15.0.3.3"
15.6-17	Last bullet in subsection 15.6.2.5.2	Editorial Clarified the scope of statement. Replaced "Atmospheric dispersion factors" with "The χ/Q values"
15.6-18	Third row from bottom in Table 15.6.2-1	Editorial Clarified the scope of statement. Replaced "Atmospheric dispersion factors" with " χ/Q "

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.6-18	Third row from bottom in Table 15.6.2-1	Editorial Clarified the scope of statement. Replaced “See Tables 2.0-1 and 15.0-13” with “See Table 15.0-13”
15.6-26	15.6.3.4.3	Editorial Clarified the statement of item (b) to correspond to the assumption of the initial conditions. Replaced “The ruptured steam generator is identified 600 seconds after SGTR initiation” with “The ruptured steam generator is identified 600 seconds after the audible alarms which indicate that the event has occurred”.
15.6-27	15.6.3.4.3(2)	Editorial Revised figure numbers; Figure15.6.3-11 as Figure15.6.3-13 Figure15.6.3-17 as Figure15.6.3-21 Figure15.6.3-16 as Figure15.6.3-18
15.6-28	Second bullet in subsection 15.6.3.5.1	Editorial Clarified the scope of statement. Replaced “The atmospheric dispersion factors used in the analysis are described in Chapter 2 of the US-APWR DCD. Additional information is provided in Section 15.0.3.3” with “The χ/Q values used in the analysis are described in Section 15.0.3.3”
15.6-28	First sentence of third paragraph in subsection 15.6.3.5.1	Editorial Clarified the scope of statement. Replaced “is released directly to the environment.” with “is assumed to be released directly to the environment.”
15.6-30	Second paragraph from last in Subsection 15.6.3.5.2	Editorial Clarified the scope of statement. Replaced “Atmospheric dispersion factors” with “The χ/Q values”
15.6-35	Tenth row of second column in Table 15.6.3-4 (sheet 1 of 2)	Editorial Clarified the scope of statement. Replaced “Lost at time of reactor trip” with “Lost after trip”

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.6-35	Fourteenth row in Table 15.6.3-4 (Sheet 1 of 2)	Editorial Clarified the scope of statement. Moved "Ruptured steam generator" to Table 15.6.3-4 (Sheet 2 of 2)
15.6-35	The last row in Table 15.6.3-4 (Sheet 1 of 2)	Editorial Clarified the scope of statement. Deleted "Mass leaked via the break" and "See Table 15.6.3-3."
15.6-36	Third row from bottom in Table 15.6.3-4 (Sheet 2 of 2)	Editorial Clarified the scope of statement. Replaced "Atmospheric dispersion factors" with " χ/Q "
15.6-36	Third row from bottom in Table 15.6.3-4 (Sheet 2 of 2)	Editorial Clarified the scope of statement. Replaced "See Tables 2.0-1 and 15.0-13" with "See Table 15.0-13"
15.6-40 15.6-41 15.6-52 15.6-53	Figure 15.6.3-3 Figure 15.6.3-4 Figure 15.6.3-15 Figure 15.6.3-16	Editorial Added T_{sat} data to each listed plot.
15.6-44 15.6-56	Figure 15.6.3-7 Figure 15.6.3-19	Editorial Clarified scope of the statement. Added the word "Integrated" to the beginning of the title of each figure.
15.6-48 to 15.6-56	Figure 15.6.3-11 Figure 15.6.3-12 Figure numbers of Figure 15.6.3-11 to Figure 15.6.3-19	Editorial Clarified the scope of statement. Added the new figures for feedwater flow rate and safety depressurization valve flow rate. Revised figure numbers of Figure 15.6.3-11 to 15.6.3-17 as Figure 15.6.3-13 to 15.6.3-19, respectively.
15.6-57 15.6-58	Figure 15.6.3-20 Figure 15.6.3-21	Editorial Clarified the scope of statement. Added new figures for feedwater flow rate and safety depressurization valve flow rate.

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.6-77	Under heading title "ASTRUM Results and Comparison with the 10 CFR 50.46 Criteria", Seventh paragraph, second item in subsection 15.6.5.3.3.1	<p>Technical</p> <p>Reflected correction to the PCT and LMO calculation using the HOTSPOT code for the large break LOCA analysis.</p> <p>Change "The 95th percentile result of 2.3% (Run 72) ..." to "The 95th percentile result of 3.5% (Run 103) ..."</p>
15.6-79	Under heading title "Results of 7.5-inch Small Break LOCA Analysis", fourth paragraph in subsection 15.6.5.3.3.2	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Change "The PCT of 775°F occurs..." to "The PCT of 774°F occurs..."</p>
15.6-79	Under heading title "Results of 7.5-inch Small Break LOCA Analysis", sixth paragraph, first item in subsection 15.6.5.3.3.2	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Change "The PCT of 775°F presented in..." to "The PCT of 774°F presented in..."</p>
15.6-80	Under heading title "Results of 1-ft ² Small Break LOCA Analysis", second row from the bottom of the fifth paragraph in subsection 15.6.5.3.3.2	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Change "This figure shows that the PCT of 1297°F occurs at 166 seconds." to "This figure shows that the PCT of 1317°F occurs at 170 seconds."</p>
15.6-80	Under heading title "Results of 1-ft ² Small Break LOCA Analysis", seventh paragraph, first item in subsection 15.6.5.3.3.2	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Change "The PCT of 1297°F presented in..." to "The PCT of 1317°F presented in..."</p>
15.6-82	Under heading title "Results of the Large Break LOCA", First paragraph in subsection 15.6.5.3.3.3	<p>Editorial</p> <p>Corrected Figure number; Figure 16.5.6-42 as Figure 15.6.5-42</p>

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.6-83	Last paragraph of heading title "Results of the Small Break LOCA" in subsection 15.6.5.3.3.3	Editorial Corrected Figure number "Figure 16.5.6-43" to "Figure 15.6.5-43"
15.6-83	First sentence of first bullet in subsection 15.6.5.5.1	Editorial Corrected reference number. Replaced "micro shield code (Ref. 15.6-27)." with "MicroShield code (Ref.15.6-25)."
15.6-84	Second bullet in subsection 15.6.5.5.1	Editorial Clarified the scope of statement. Replaced "The atmospheric dispersion factors used in the analysis are described in Chapter 2. Additional information is provided in Section 15.0.3.3 and Appendix 15A.1.5" with "The χ/Q values used in the analysis are described in Section 15.0.3.3"
15.6-87	First bullet of third item in subsection 15.6.5.5.1.1	Editorial Clarified the scope of statement.(RAI No.38 Revision1, 15.00.03-14) Deleted "which the Technical Specifications would require declaring such system inoperable"
15.6-88	Third paragraph in subsection 15.6.5.5.1.2	Editorial Clarified the scope of statement. Deleted "and 15.6-25"
15.6-88	Last sentence of seventh paragraph in subsection 15.6.5.5.1.2	Editorial Clarified the scope of statement. Replaced "cubic meters per second" with " m^3/s "
15.6-91	Seventh row of third column in Table 16.6.5-1	Editorial Corrected typo error Change " $2.3 \leq F_Q \leq 2.6$ " to " $F_Q \leq 2.6$ "
15.6-95	Third row from bottom in Table 15.6.5-4 (Sheet 2 of 2)	Editorial Clarified the scope of statement. Replaced "Atmospheric dispersion factors" with " χ/Q "

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.6-95	Third row from bottom in Table 15.6.5-4 (Sheet 2 of 2)	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "See Tables 2.0-1 and 15.0-13" with "See Tables 15.0-13 and 15A-22"</p>
15.6-98	Second row from the bottom in Table 16.6.5-7	<p>Technical</p> <p>Reflected correction to the description of event.</p> <p>Change "End of reflood, core quenched begins" to "PCT Elevation quenched"</p>
15.6-99	Third row of second column in Table 15.6.5-8	<p>Technical</p> <p>Reflected correction to the PCT and LMO calculation using the HOTSPOT code for the large break LOCA analysis.</p> <p>Change "2.3 (Run72)" to "3.5 (Run 103)"</p>
15.6-100	Last row in Table 15.6.5-9	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Changed "299" to "298" for the time of "Accumulator injection begins".</p>
15.6-101	Second row in Table 15.6.5-10	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Changed "775" to "774" in the value of Peak Cladding Temperature.</p>
15.6-102	First and second row from the bottom of Table 15.6.5-11	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Changed "166" to "170" in time of Peak Cladding Temperature occurs. Then, changed "320" to "359" in time of Core upper region recovery.</p>
15.6-103	Second row in Table 15.6.5-12	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Changed "1297" to "1317" in the value of Peak Cladding Temperature.</p>

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.6-107	Fourth row of Table 15.6.5-16	<p>Technical</p> <p>Reflected layout change.</p> <p>Changed "4.5" to "4.4" in MCR dose value of air borne activity entering the MCR de to layout change.</p>
15.6-116 and 15.6-118	Figure 15.6.5-9 and Figure 15.6.5-11	<p>Technical</p> <p>Reflected correction to the PCT and LMO calculation using the HOTSPOT code for the large break LOCA analysis.</p> <p>Replaced with figures of reanalysis results using the corrected code.</p>
15.6-121 through 15.6-147	Figure 15.6.5-14 through Figure 15.6.5-40	<p>Technical</p> <p>Reflected correction to the PCT calculation using the M-RELAP5 code for the small break LOCA analysis.</p> <p>Replaced with figures of reanalysis results using the corrected code.</p>
15.6-151	The subsection 15.6.6	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Deleted "In the COLA, the radiological consequences of failure of small lines carrying primary coolant outside containment, SGTR and LOCA are evaluated for using the site-specific χ/Q values."</p>
15.7-2	First and second sentence of second paragraph in subsection 15.7.4	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Deleted "There are many mitigative features in place to prevent a fuel handling accident from occurring. One such feature is that the spent fuel cask handling crane is designed to not be moved directly over the spent fuel pit in order to avoid damage to spent fuel in the pit by a potential dropped load. Also,"</p>
15.7-2	First and second sentence of second paragraph in subsection 15.7.4	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "is designed in order to fail as-is." with "is designed to fail as-is."</p>

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15.7-2	Second bullet in subsection 15.7.4.1	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "The atmospheric dispersion factors used in the analysis are described in Chapter 2. Additional information is provided in 15.0.3.3" with "The atmospheric dispersion factors (χ/Q values) used in the analysis are described in Section 15.0.3.3"</p>
15.7-5	Third row from bottom in Table 15.7.4-1	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "Atmospheric dispersion factors" with "χ/Q"</p>
15.7-5	Third row from bottom in Table 15.7.4-1	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "See Tables 2.0-1 and 15.0-13" with "See Table 15.0-13"</p>
15.7-6	Subsection 15.7.6	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Deleted " In the COLA, the radiological consequences of a Fuel Handling Accident will be evaluated using the site-specific χ/Q values."</p>
15.8-1	15.8.3	<p>Editorial</p> <p>Corrected the statement.</p> <p>Deleted extraneous "ATWS" before "AMSAC".</p>
15A-3	Second sentence of second paragraph in Subsection 15A.1.2.1	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "containment spray" with "wall deposition"</p>
15A-3	Third sentence of second paragraph in Subsection 15A.1.2.1	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "containment spray system" with "wall deposition"</p>
15A-4	Second paragraph in Subsection 15A 1.4	<p>Editorial</p> <p>Corrected table number.</p> <p>Replaced "Table 15A-17" with " Table 15.0.13"</p>

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15A-4	First sentence in subsection 15A.1.5	<p>Editorial</p> <p>Corrected table number.</p> <p>Replaced "The atmospheric dispersion factors are determined by representative values at the EAB and LPZ distance selected from offsite atmospheric dispersion value of a reasonable number of the existing sites." with "The offsite atmospheric dispersion factors (χ/Q values) are determined by representative values at the EAB and LPZ distance selected from the χ/Q values of a reasonable number of the existing sites."</p>
15A-5	First and second sentence in this page	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "postulated accidents are listed in Table 2.0-1 of Chapter 2. Table 15A-17 reiterates these χ/Q values" with "postulated accidents are listed in Table 15A-17"</p>
15A-5	First and second sentence of last paragraph in subsection 15A.1.5	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "The main control room χ/Q values are also defined in Table 2.0-1 of Chapter 2. The atmospheric dispersion factors for the different required time intervals for the MCR are listed by design basis accident event in Tables 15A-18 through 15A-23." with "The MCR χ/Q values for the different required time intervals are listed by design basis accident event in Tables 15A-18 through 15A-23."</p>
15A-6	Second sentence in subsection 15A.2.5	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "fuel handling building" with "fuel handling area"</p>
15A-6	The end of third sentence in subsection 15A.2.6	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "outside containment" with "outside containment, respectively"</p>

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15A-6	First paragraph in subsection 15A.3.1	Editorial Clarified the scope of statement. Replaced "atmospheric dispersion factor, χ/Q ." with "the χ/Q value."
15A-6	First paragraph in subsection 15A.3.2	Editorial Clarified the scope of statement. Replaced "atmospheric dispersion factor, χ/Q ." with "the χ/Q value."
15A-6	First sentence in subsection 15A.3.1 and 15A.3.2	Editorial Clarified the scope of statement. Replaced "receptor:" with "receptor) the product of:"
15A-15 to 15A-18	Notes of Table 15A-10 (sheet 1 to 4)	Editorial Corrected reference number. Replaced "Federal Guidance Report 11 and 12." with "Federal Guidance Report 11 (Ref. 15A.5-5) and 12 (Ref. 15A.5-6)."
15A-25	Second column in Table 15A-18	Technical Reflected layout change. Changed "Class 1E electrical room heating, ventilation, and air conditioning (HVAC) intake" to "MCR heating, ventilation, and air conditioning (HVAC) intake" due to layout change.
15A-25	Third column in Table 15A-18	Technical Reflected layout change. Changed "Class 1E electrical room HVAC intake" to "MCR HVAC intake" due to layout change.
15A-26	Third column in Table 15A-20 (Sheet 1 of 2)	Technical Reflected layout change. Changed horizontal and vertical distance value "41 (m)" to "55 (m)" and "46 (m) " to "43 (m)" due to layout change.

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

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15A-26	Third column in Table 15A-20 (Sheet 1 of 2)	Technical Reflected layout change. Changed χ/Q values " 1.7×10^{-3} (s/m ³)" to " 1.4×10^{-3} (s/m ³)", " 9.7×10^{-4} (s/m ³)" to " 8.0×10^{-4} (s/m ³)", " 6.2×10^{-4} (s/m ³)" to " 5.1×10^{-4} (s/m ³)" and " 2.7×10^{-4} (s/m ³)" to " 2.2×10^{-4} (s/m ³)" due to layout change.
15A-26	Fifth column in Table 15A-20 (Sheet 1 of 2)	Technical Reflected layout change. Changed "Auxiliary building HVAC intake" to "Class 1E electrical room HVAC intake" due to layout change.
15A-26	Fifth column in Table 15A-20 (Sheet 1 of 2)	Technical Reflected layout change. Changed horizontal and vertical distance value "30 (m)" to "27 (m)" and "26 (m)" to "33 (m)" due to layout change.
15A-26	Fifth column in Table 15A-20 (Sheet 1 of 2)	Technical Reflected layout change. Changed χ/Q values " 2.7×10^{-3} (s/m ³)" to " 2.4×10^{-3} (s/m ³)", " 1.6×10^{-3} (s/m ³)" to " 1.4×10^{-3} (s/m ³)", " 1.0×10^{-3} (s/m ³)" to " 9.1×10^{-4} (s/m ³)" and " 4.4×10^{-4} (s/m ³)" to " 4.0×10^{-4} (s/m ³)" due to layout change.
15A-27	Second column in Table 15A-21	Technical Reflected layout change. Changed vertical distance values "8.5 (m)" to "7 (m)" due to layout change.
15A-27	Second column in Table 15A-21	Technical Reflected layout change. Changed χ/Q values " 8.3×10^{-4} (s/m ³)" to " 8.4×10^{-4} (s/m ³)" due to layout change.
15A-27	Third column in Table 15A-21	Technical Reflected layout change. Changed vertical distance values "1.5 (m)" to "0 (m)" due to layout change.

US-APWR DCD Chapter 15 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
15A-27	Third column in Table 15A-21	<p>Technical</p> <p>Reflected layout change.</p> <p>Changed χ/Q values "5.1×10^{-3} (s/m³)" to "4.9×10^{-3} (s/m³)", "3.0×10^{-3} (s/m³)" to "2.9×10^{-3} (s/m³)", "1.9×10^{-3} (s/m³)" to "1.8×10^{-3} (s/m³)" and "8.4×10^{-4} (s/m³)" to "8.1×10^{-4} (s/m³)" due to layout change.</p>
15A-27	Third column in Table 15A-22	<p>Technical</p> <p>Reflected layout change.</p> <p>Changed χ/Q values "7.8×10^{-4} (s/m³)" to "7.7×10^{-4} (s/m³)" due to layout change.</p>
15A-27	Second row of Table 15A-21	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "Sampling system line" with "RCS sample line"</p>
15A-28	First row of third column in Table 15A-23	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "Fuel Handling Accident in the Fuel Handling Building" with "Fuel handling accident in the fuel handling area"</p>
15A-28	Fifth column in Table 15A-23	<p>Technical</p> <p>Reflected layout change.</p> <p>Changed vertical distance values in this column "10 (m)" to "8.5 (m)" due to layout change.</p>
15A-39	Figure 15A-1	<p>Technical</p> <p>Reflected layout change.</p> <p>Changed position of "c" and "8" due to layout change.</p>
15A-44	Figure 15A-6	<p>Editorial</p> <p>Clarified the scope of statement.</p> <p>Replaced "Fuel Handling Building" with "Fuel Handling Area"</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
16.1 Technical Specifications		
16.1-1	Top of the page	Editorial: Make better consistency with other Chapters Added the title "16.0 Technical Specifications"
16.1-1	1 st sentence of the 1 st paragraph	Editorial: Make better consistency with other Chapters Changed the reference number from "Ref. n" to "Ref. 16.1-n". The same type of modification has been done to all reference numbers which appeared in this section.
16.1-1	2 nd paragraph	Editorial: Correct typographical error Replaced "10CFR50.36 (c)(2)(ii)" with "10CFR50.36 (d)(2)(ii)".
16.1-2	16.1.1.2 (1)	Editorial: Change to appropriate description Capitalized "frequencies" in two locations.
16.1-2	16.1.1.2 (2)	Editorial: Change to appropriate description Modified the description to make it more understandable.
16.1-2	16.1.1.2 (3)	Editorial: Correct typographical error Replaced "(2)" with "(1)".
16.1-2	16.1.1.2 (4)	Editorial: Change to appropriate description Replaced "[COLA]" with "[]". Removed the wording "COL Applicant" and modified the relevant description to avoid misunderstanding that it is the COL item.
16.1-2	16.1.1.2 (5)	Editorial: Reflect the contents of this revision Added TSTF-425 and TSTF-448. Changed the reference numbers.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
16.1-2~4	16.1.1.2 (6)	<p>Editorial: (1). Incorporation of customer's preference.</p> <p>(2). To clarify that the adoption of RMTS and/or SFCP is a choice of COL applicant.</p> <p>(3). To reflect NRC comments obtained at DCWG meeting on July 1st.</p> <p>(1). Added the description to incorporate SFCP.</p> <p>(2). Modified the title of this subsection and the following description in order to clarify that the US-APWR technical Specifications provide the framework for RMTS/SFCP and the adoption of them are the option of COL applicant.</p> <p>(3). Replaced the wording "ITAAC" with "license condition" and modified relevant description.</p>
16.1-4	16.1.1.2 (6) last paragraph	<p>Editorial: This description was no longer meaningful because about half of risk-informed initiatives described here were incorporated in Rev.1.</p> <p>Deleted the description on other risk-informed initiatives.</p>
16.1-4	16.1.2	<p>Editorial: Added the necessary references.</p> <p>Added TSTF-425, TSTF-448 and NEI-04-10 in references and renumber them.</p>
Technical Specifications		
General	-	<p>Technical: Incorporation of customer's preference</p> <p>Risk-Informed Technical Specification Initiative 4b were incorporated which involved changes to the following LCOs and associated Bases.</p> <p>LCO3.3.1 LCO3.3.2 LCO3.3.3</p> <p>LCO 3.4.11 LCO 3.5.1 LCO3.5.4</p> <p>LCO 3.6.2 LCO 3.6.3 LCO 3.7.2</p> <p>LCO 3.7.4 LCO 3.7.6 LCO 3.8.9</p> <p>LCO 3.7.10 and LCO 3.8.5 were excluded to incorporate Initiative 4b.</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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General	-	<p>Technical: Incorporation of customer's preference Risk-Informed Technical Specification Initiative 5b were incorporated based on TSTF-425 which involved changes to the following LCOs and associated Bases.</p> <table border="0"> <tr> <td>LCO 3.1.1</td> <td>LCO 3.1.2</td> <td>LCO 3.1.4</td> </tr> <tr> <td>LCO 3.1.5</td> <td>LCO 3.1.6</td> <td>LCO 3.1.9</td> </tr> <tr> <td>LCO 3.2.1</td> <td>LCO 3.2.2</td> <td>LCO 3.2.3</td> </tr> <tr> <td>LCO 3.2.4</td> <td>LCO 3.3.1</td> <td>LCO 3.3.2</td> </tr> <tr> <td>LCO 3.3.3</td> <td>LCO 3.3.4</td> <td>LCO 3.3.5</td> </tr> <tr> <td>LCO 3.3.6</td> <td>LCO 3.4.1</td> <td>LCO 3.4.2</td> </tr> <tr> <td>LCO 3.4.3</td> <td>LCO 3.4.4</td> <td>LCO 3.4.5</td> </tr> <tr> <td>LCO 3.4.9</td> <td>LCO 3.4.11</td> <td>LCO 3.4.12</td> </tr> <tr> <td>LCO 3.4.13</td> <td>LCO 3.4.14</td> <td>LCO 3.4.15</td> </tr> <tr> <td>LCO 3.4.16</td> <td>LCO 3.5.1</td> <td>LCO 3.5.2</td> </tr> <tr> <td>LCO 3.5.4</td> <td>LCO 3.5.5</td> <td>LCO 3.6.2</td> </tr> <tr> <td>LCO 3.6.3</td> <td>LCO 3.6.4</td> <td>LCO 3.6.5</td> </tr> <tr> <td>LCO 3.6.6</td> <td>LCO 3.7.2</td> <td>LCO 3.7.3</td> </tr> <tr> <td>LCO 3.7.4</td> <td>LCO 3.7.5</td> <td>LCO 3.7.6</td> </tr> <tr> <td>LCO 3.7.7</td> <td>LCO 3.7.8</td> <td>LCO 3.7.10</td> </tr> <tr> <td>LCO 3.7.11</td> <td>LCO 3.7.12</td> <td>LCO 3.7.13</td> </tr> <tr> <td>LCO 3.7.14</td> <td>LCO 3.8.1</td> <td>LCO 3.8.3</td> </tr> <tr> <td>LCO 3.8.4</td> <td>LCO 3.8.6</td> <td>LCO 3.8.7</td> </tr> <tr> <td>LCO 3.8.9</td> <td></td> <td></td> </tr> </table>	LCO 3.1.1	LCO 3.1.2	LCO 3.1.4	LCO 3.1.5	LCO 3.1.6	LCO 3.1.9	LCO 3.2.1	LCO 3.2.2	LCO 3.2.3	LCO 3.2.4	LCO 3.3.1	LCO 3.3.2	LCO 3.3.3	LCO 3.3.4	LCO 3.3.5	LCO 3.3.6	LCO 3.4.1	LCO 3.4.2	LCO 3.4.3	LCO 3.4.4	LCO 3.4.5	LCO 3.4.9	LCO 3.4.11	LCO 3.4.12	LCO 3.4.13	LCO 3.4.14	LCO 3.4.15	LCO 3.4.16	LCO 3.5.1	LCO 3.5.2	LCO 3.5.4	LCO 3.5.5	LCO 3.6.2	LCO 3.6.3	LCO 3.6.4	LCO 3.6.5	LCO 3.6.6	LCO 3.7.2	LCO 3.7.3	LCO 3.7.4	LCO 3.7.5	LCO 3.7.6	LCO 3.7.7	LCO 3.7.8	LCO 3.7.10	LCO 3.7.11	LCO 3.7.12	LCO 3.7.13	LCO 3.7.14	LCO 3.8.1	LCO 3.8.3	LCO 3.8.4	LCO 3.8.6	LCO 3.8.7	LCO 3.8.9		
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General	-	<p>Editorial: Correct typographical error</p> <p>Replaced "... the requirement of Specification 5.5.18" with "... the requirements of Specification 5.5.18".</p>																																																									

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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General	-	<p>Editorial: Change to appropriate description</p> <p>Replaced “Only two OPERABLE” with “One required Inoperable”.</p> <p>Replaced “Only two required OPERABLE” with “One required Inoperable”.</p> <p>Replaced “Only one required OPERABLE” with “One required Inoperable”.</p>
General	-	<p>Technical: Incorporation of customer’s preference</p> <p>The SFCP was applied to shutdown mode when allowed in TSTF-425. Applied SFCP to following SRs and associated Bases.</p> <p>SR 3.4.6.1, SR 3.4.6.2, SR 3.4.6.3, SR 3.4.7.1, SR 3.4.7.2, SR 3.4.7.3, SR 3.4.8.1, SR 3.4.8.2, SR 3.8.8.1, SR 3.8.10.1, SR 3.9.1.1, SR 3.9.2.1, SR 3.9.3.1, SR 3.9.3.2, SR 3.9.4.1, SR 3.9.4.2, SR 3.9.4.3, SR 3.9.5.1, SR 3.9.6.1, SR 3.9.6.2, SR 3.9.7.1</p>
General	-	<p>Editorial: Reflection of NEI 06-09 constraint</p> <p>The application of RMTS was removed in Mode 4. Added Note “This Required Action is not applicable in MODE 4” in the following REQUIRED ACTIONS.</p> <p>3.3.2 REQUIRED ACTION Q.2</p> <p>3.5.4 REQUIRED ACTION A.2</p> <p>3.6.2 REQUIRED ACTION A.2.2, B2.2, C3.2,</p> <p>3.6.3 REQUIRED ACTION C.1.2</p> <p>3.6.6 REQUIRED ACTION A.2,</p> <p>3.7.7 REQUIRED ACTION A.2</p> <p>3.7.8 REQUIRED ACTION A.2,</p> <p>3.8.1 REQUIRED ACTION A.2.2, B.4.2,C.2, D.3, F.2</p> <p>3.8.4 REQUIRED ACTION A.3.2</p> <p>3.8.7 REQUIRED ACTION A.2</p> <p>3.8.9 REQUIRED ACTION A.2</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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General	-	<p>Technical: Clarify that the adoption of RMTS is a choice of COL applicants</p> <p>Added brackets in the followings related to the requirements of Specification 5.5.18</p> <p>LCO 3.3.1, LCO 3.3.2, LCO 3.3.3, LCO 3.4.11, LCO 3.5.1, LCO 3.5.2, LCO 3.5.4, LCO 3.6.2, LCO 3.6.3, LCO 3.6.6, LCO 3.7.2, LCO 3.7.4, LCO 3.7.6, LCO 3.7.7, LCO 3.7.8, LCO 3.8.1, LCO 3.8.4, LCO 3.8.7, LCO 3.8.9</p>
General	-	<p>Editorial: Change to appropriate description</p> <p>Replaced “Three of four” with “Three” in the following LCOs.</p> <p>LCO 3.5.2, LCO 3.6.6, LCO 3.7.7, LCO 3.7.8, LCO 3.7.10, LCO 3.8.1, LCO 3.8.4, LCO 3.8.7</p>
General	-	<p>Editorial: Change to appropriate description</p> <p>Changed “gal” to “gallons”.</p>
1.1-1	ACTUATION LOGIC TEST	<p>Editorial: Change to appropriate description</p> <p>Replaced “Topical Report MUAP-07004” with “ Topical Report, “Safety I&C System Description and Design Process, “MUAP-07004”.</p> <p>Replaced “Topical Report MUAP-07005” with “Topical Report, “Safety System Digital Platform -MELTAC-, “MUAP-07005”.</p>
1.1-2	CHANNEL CALIBRATION	<p>Editorial: Change to appropriate description</p> <p>Replaced “Topical Report MUAP-07004” with “ Topical Report, “Safety I&C System Description and Design Process, “MUAP-07004”.</p>
1.1-2	CHANNEL CHECK	<p>Editorial: grammatical correction</p> <p>Replaced “is” with “are” in the last line.</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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1.1-3	CHANNEL OPERATIONAL TEST (COT)	Editorial: Change to appropriate description Replaced "Topical Report MUAP-07004" with " Topical Report, "Safety I&C System Description and Design Process, "MUAP-07004". Replaced "Topical Report MUAP-07005" with "Topical Report, "Safety System Digital Platform -MELTAC-, "MUAP-07005".
1.1-3	CORE OPERATING LIMITS REPORT (COLR)	Editorial: Change to appropriate description Added "- " between "cycle" and "specific" The explanation of COLR was generalized by deleting "for the current reload cycle" and by replacing "reload cycle" with "cycle".
1.1-4	DOSE EQUIVALENT XE-133	Editorial: Correct typographical error Deleted the unnecessary blank in the last sentence.
1.1-8	TRIP ACTUATING DEVICE OPERATIONAL TEST (TADOT)	Editorial: (1) Correct typographical error (2) Change to appropriate description (1) Replaced "subjected" with "subject" in the 3 rd sentence. (2) Removed the 4 th sentence, which is unnecessary.
1.3-9	EXAMPLE 1.3-6	Editorial: Correct typographical error Replaced "complete" with "completed".
1.3-10~11	EXAMPLE 1.3-8	Technical: Incorporation of customer's preference The example of RICT was provided according to Luminant request.
3.0-3	LCO 3.0.8	Technical: Incorporation of the latest STS contents Brackets were removed.
3.2.1-2	COMPLETION TIME	Editorial Change to appropriate description Added a blank line to align the line.
3.2.1-2	REQUIRED ACTION B.3	Editorial: Change to appropriate description Replaced two dots ("..") with a dot (".").
3.2.1-3	NOTE	Editorial: Change to appropriate description Deleted a comma (",").

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
3.3.1-14,15	Table 3.3.1-1 annotation (a)	Editorial: Correct typographical error Replaced "... insert" with "...inserted"
3.3.1-16	Table 3.3.1-1 (page 3 of 9)	Editorial: Change of pressure unit. FUNCTION 8 - Low Pressurizer Pressure Replaced "[1880] psia" with "[1865] psig" - High Pressurizer Pressure Replaced "[2400] psia" with "[2385] psig"
3.3.1-17	Table 3.3.1-1 (page 4 of 9)	Editorial: Change of pressure unit. FUNCTION 13 - Turbine Emergency Trip Oil Pressure; Replaced "[940] psia" with "[930] psig" Replaced "[1010] psia" with "[1000] psig"
3.3.2-4	CONDITION H	Editorial: Change to appropriate description Changed "One Main Feedwater Pumps trip channel inoperable." to "One channel for trip of all Main Feedwater Pumps inoperable."
3.3.2-12	Table 3.3.2-1 (page 1 of 9)	Editorial: Change of pressure unit. "[21.5] psia" of "c. High Containment Pressure" was replaced with "[6.8] psig".
3.3.2-12	Table 3.3.2-1 (page 1 of 9)	Editorial: Change of pressure unit. "[1780] psia" of "d. Low Pressurizer Pressure" was replaced with "[1765] psig".
3.3.2-12	Table 3.3.2-1 (page 1 of 9)	Editorial: Change of pressure unit. "[540] psia" of "e. Low Main Steam Line Pressure" was replaced with "[525] psig".
3.3.2-13	Table 3.3.2-1 (page 2 of 9)	Editorial: Change of pressure unit. "[48.7] psia" of "c. High-3 Containment Pressure" was replaced with "[34.0] psig".
3.3.2-14	Table 3.3.2-1 (page 3 of 9)	Editorial: Correct typographical error ""Containment spray" is replaced with "Containment Spray" in the item b (1).

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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3.3.2-15	Table 3.3.2-1 (page 4 of 9)	Editorial: Change of pressure unit. “[37.4] psia” of “c. High-High Containment Pressure” was replaced with “[22.7] psig”.
3.3.2-15	Table 3.3.2-1 (page 4 of 9)	Editorial: Change of pressure unit. “[540] psia” of “d. (1) Low Main Steam Line Pressure” was replaced with “[525] psig”.
3.3.2-16	5A.Main Feedwater Control valve Closure Coincident with Reactor Trip, P-4	Editorial: Correct typographical error Changed “12” to “11”.
3.3.2-18	7.Emergency Feedwater Isolation coincident with Reactor Trip, P-4	Editorial: Correct typographical error Changed “12” to “11”.
3.3.2-18	Table 3.3.2-1 (page 7 of 9)	Editorial: Change of pressure unit. “[540] psia” of “d. Low Main Steam Line Pressure” was replaced with “[525] psig”.
3.3.2-19	9.Turbine Trip b.Reactor Trip, P-4	Editorial: Correct typographical error Changed “12” to “11”.
3.3.2-19	10.Reactor Coolant Pump Trip Coincident with Reactor Trip, P-4	Editorial: Correct typographical error Changed “12” to “11”.
3.3.2-19	Table 3.3.2-1 (page 8 of 9)	Editorial: Change of pressure unit. “[1930] psia” of “b. Pressurizer Pressure, P-11” was replaced with “[1915] psig”.
3.3.2-20	Table 3.3.2-1 (page 9 of 9)	Editorial: Correct typographical error “(MCR)” is added after “Main Control Room” in the item 13.
3.3.6-3	SR 3.3.6.5	Editorial: Change to appropriate description Added “for the Manual Initiation/Control and Actuation Outputs”
3.3.6-3	SR 3.3.6.6	Editorial: Change to appropriate description Added “for the Rod Drive Motor-Generator set trip devices”

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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3.3.6-4	Table 3.3.6-1 (page 1 of 2)	Editorial: Change of pressure unit. "[1840] psia" of "c. Low Pressurizer Pressure" was replaced with "[1825] psig".
3.3.6-4	Table 3.3.6-1 (page 1 of 2)	Editorial: Change of pressure unit. "[2440] psia" of "d. High Pressurizer Pressure" was replaced with "[2425] psig".
3.4.7-1	LCO	Editorial: Correct typographical error Added "s" after "loop"
3.4.7-2	LCO 3.4.7, - CONDITION	Editorial: Correct typographical error A space was deleted in the Completion Time column so Required Action A.2 aligns with the associated Completion Time.
3.4.7-2	ACTIONS, CONDITION A	Editorial: Correct typographical error Replaced "SG's" with "SGs"
3.4.8-2	CONDITION B OR statement	Editorial: Correct typographical error Deleted "not"
3.4.12-1	LCO	Editorial: Correct typographical error Added "s" after "(SI) pump"
3.4.12-2	ACTIONS, REQUIRED ACTION A.1	Editorial: Correct typographical error Replaced "is" with "are"
3.4.12-3	SR 3.4.12.1	Editorial: Correct typographical error Replaced "is" with "are"
3.4.12-3	LCO 3.4.12,	Editorial: Modify to be easy to read A page break and ACTIONS (continued) were inserted between Conditions D and E, and a double line was inserted at the end of the ACTIONS Table. Also a double line was inserted at the end of the SURVEILLANCE REQUIREMENTS Table.
3.4.14-2	LCO 3.4.14	Editorial: Modify to be easy to read A double line was inserted at the end of the ACTIONS Table.
3.4.17-1	LCO 3.4.17 Third line	Editorial: Change to appropriate description Bracketed such as "[or repaired]"

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
3.4.17-1	Table CONDITION, A.	Editorial: Change to appropriate description Bracketed such as “[or repaired]”
3.4.17-1	Table REQUIRED ACTION, A.2	Editorial: Change to appropriate description Bracketed such as “[or repair]”
3.4.17-2	Table SURVEILLANCE , SR 3.4.17.2	Editorial: Change to appropriate description Bracketed such as “[or repaired]”
3.5.2-1	LCO 3.5.2	Editorial: Modify to be easy to read A double line was inserted at the end of the ACTIONS Table.
3.5.2-2	LCO 3.5.2	Editorial: Correct typographical error “CV” was deleted in SR 3.5.2.5.
3.5.1-2	SR 3.5.1.2	Editorial: Correct typographical error Deleted a space between “gallons” and “.”
3.5.1-3	SR 3.5.1.4	Editorial: Change of volume unit Replaced “26 ft ³ ” with “190 gallons”
3.5.4-2	SR 3.5.4.2	Editorial: Change of volume unit Replaced “44,000 ft ³ ” with “329,150 gallons”
3.6.2-4	ACTIONS	Editorial: Correct typographical error Added “ACTIONS (continued)”.
3.6.3-1	ACTIONS	Editorial: Correct typographical error Added a space between “,” and “may” in NOTES. Deleted a space between “inoperable” and “.”
3.6.6-1	LCO	Editorial: Change to appropriate description Added “(CS)” after “containment spray”
3.7.1-1	REQUIRED ACTION A.2	Editorial: Correct typographical error Deleted a space between “MODE1” and “.”.
3.7.1-3	Table 3.7.1-1	Editorial: Change to appropriate description Table 3.7.1-1, the Maximum Allowable Power setpoint as a % of RTP was revised.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
3.7.1-3	Table 3.7.1-1	Editorial: Correct typographical error Deleted brackets
3.7.3-1	APPLICABILITY	Editorial: Correct typographical error Added "s" after MFIV, MFRV, MFBRV and SGWFCV. Replaced "is" with "are".
3.7.4-1	APPLICABILITY	Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs. Deleted MODE 4 applicability
3.7.4-1	REQUIRED ACTION C.2	Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs Deleted "without reliance upon steam generator for heat removal."
3.7.5-1	LCO	Editorial: Correct typographical error Replaced "close" with "closed"
3.7.5-1	LCO	Editorial: Correct typographical error Replaced "tie" with "cross-connect"
3.7.5-1	LCO NOTE	Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs Deleted the NOTE of "Only two EFW train, which includes a motor driven pump, is required to be OPERABLE in MODE 4. During on-line maintenance, three EFW trains shall be OPERABLE with all EFW pump discharge tie line isolation valves in all trains open. In this case only one EFW train, which includes a motor driven pump, is required to be OPERABLE in MODE 4."
3.7.5-1	APPLICABILITY	Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs Deleted MODE 4 applicability
3.7.5-1	REQUIRED ACTION A.1	Editorial: Correct typographical error Replaced "tie" with "cross-connect"
3.7.5-2	REQUIRED ACTION B.1	Editorial: Correct typographical error Replaced "tie" with "cross-connect"

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
3.7.5-2	REQUIRED ACTION D.1	Editorial: Correct typographical error Replaced "one EFW train" with "one additional EFW train"
3.7.5-2	ACTIONS	Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs Deleted CONDITION E.
3.7.6-1	APPLICABILITY	Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs Deleted MODE 4 applicability
3.7.6-1	REQUIRED ACTION B.2	Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs Deleted ",without reliance upon steam generator for heat removal"
3.7.6-2	SR 3.7.6.1	Editorial: Correct typographical error Inserted a space between "Pitlevel".
3.7.6-2	SR 3.7.6.1	Technical: The minimum actual usable volume of the pit is 204,850 gallons/pit. Changed "241,000" to "204,850".
3.7.10-1 through 3.7.10-3	Overall of 3.7.10	Technical: Reflect the latest reference TSTF-448 was reflected to the description of LCO 3.7.10.
3.7.10-1	LCO 3.7.10	Editorial: Change to appropriate description Replaced "Three of four MCRATCS trains" with "Three MCRATCS trains".
3.7.10-1	ACTIONS, CONDITION A	Editorial: Change to appropriate description Replaced "Only one MCREFS train OPERABLE" with "One required MCREFS train inoperable".
3.7.10-1	ACTIONS, CONDITION B	Editorial: Change to appropriate description Replaced "Only two MCRATCS train OPERABLE" with "One required MCRATCS train inoperable".
3.7.10-1	ACTIONS, CONDITION B	Editorial: Correct typographical error Delete "REQUIRED ACTION" and "COMPLETION TIME" for B.2.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
3.7.12-1	Header part	Editorial: Correction of typographical error Deleted "l" of the "Pitl" in a header part.
3.8.1-1	LCO 3.8.1 b.	Editorial : Correct typographical error Deleted a period.
3.8.1-1	LCO 3.8.1 c.	Editorial: Change to appropriate description Changed "Automatic load sequencers for Train A and Train B." to "The associated automatic load sequencers for each required Class 1E GTG shall be OPERABLE."
3.8.1-2	CONDITION A	RAI No.36 16.3.8.1 01-1 Changed "Only one required offsite circuit OPERABLE." to "One required offsite circuit inoperable."
3.8.1-2	CONDITION B	RAI No.36 16.3.8.1 01-1 Changed "Only two required Class 1E GTGs OPERABLE." to "One required Class 1E GTG inoperable."
3.8.1-3	CONDITION C	RAI No.36 16.3.8.1 01-1 Changed "No required offsite circuits OPERABLE." to "Two required offsite circuits inoperable."
3.8.1-4	CONDITION D	RAI No.36 16.3.8.1 01-1 Changed "Only one required offsite circuit OPERABLE." to "One required offsite circuit inoperable." and "Only two required Class 1E GTGs OPERABLE." to "One required Class 1E GTG inoperable."
3.8.1-4	CONDITION E	RAI No.36 16.3.8.1 01-1 Changed "One or less required Class 1E GTGs OPERABLE." to "Two or more required Class 1E GTGs inoperable."
3.8.1-4	CONDITION F	RAI No.36 16.3.8.1 01-1 Changed "Only two required automatic load sequencer(s) OPERABLE." to "One required automatic load sequencer(s) inoperable."

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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3.8.1-5	CONDITION H	RAI No.36 16.3.8.1 01-1 and Editorial : Change to appropriate description Changed "One or less required ac sources OPERABLE." to "Two offsite circuits and one or more required GTGs inoperable. <u>OR</u> One offsite circuit and two or more required GTGs inoperable."
3.8.1-6	SR 3.8.1.4	Editorial: Correct typographical error Delete a space.
3.8.1-7	SR 3.8.1.7	Editorial: Correct typographical error Changed "ACac" to "ac".
3.8.1-10	SR 3.8.1.10 c. 3.	Editorial: Correct typographical error Delete a period.
3.8.1-11	SR 3.8.1.11 e.	Editorial: Correct typographical error Deleted brackets.
3.8.2-2	COMPLETION TIME in the table	Editorial: Correct typographical error Deleted spaces in the Completion Time column.
3.8.4-1	REQUIRED ACTION A	Editorial: Correct typographical error Changed "A.1.1" to "A.1".
3.8.5-1	REQUIRED ACTION A	Editorial: Delete unnecessary descriptions Deleted "A.3.2 Apply the requirement of Specification 5.5.18. ", changed "A.3.1" to "A.3" in REQUIRED ACTION, and deleted "7 days" in COMPLETION TIME Changed "A.3.1" to "A.3"
3.8.6-1	CONDITION B	Editorial: Correct typographical error Changed "Batteryon" to "Battery on"
3.8.7-1	REQUIRED ACTION A	Editorial : Correct typographical error Deleted a gap before " <u>OR</u> ".

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
3.9.3-1	LCO 3.9.3	Editorial: Description change as Standard Tech-Spec “LCO 3.9.3 Two source range neutron flux monitors shall be OPERABLE.” was changed to “LCO 3.9.3 Two source range neutron flux monitors shall be OPERABLE. AND One source range audible alarm and count rate circuit shall be OPERABLE.” This Change is based on being consistent with NUREG-1431, Standard Technical Specifications.
3.9.3-2	CONDICION C	Editorial: Description change as Standard Tech-Spec CONDITION C was added in association with change of LCO 3.9.3.
3.9.4-1	LCO 3.9.4	Technical: Incorporation of customer’s preference Replaced “The equipment hatch is closed and held in place by four bolts, ” with “The equipment hatch is closed and held in place by four bolts, or if open, capable of being closed,”.
3.9.4-1	LCO 3.9.4	Technical: Incorporation of customer’s preference Replaced “One door in each air lock is closed,” with “One door in the emergency air lock is closed and one door in the personnel airlock capable of being closed,”.
3.9.4-2	SR 3.9.4.3	Editorial : Change to appropriate description Replaced “ SR 3.9.4.2 ” with “ SR 3.9.4.3 ”.
3.9.4-2	SR 3.9.4.2	Technical: Based on the change of LCO 3.9.4 a Added the Surveillance Requirement about equipment hatch.
3.9.5-1	LCO 3.9.5, NOTE 2	Editorial: Change to appropriate description Deleted NOTE 2.
3.9.5-2	LCO 3.9.5, ACTION A4	Editorial: Change to appropriate description Brackets both side of “four” were removed.
3.9.6-1	LCO	Editorial: Change to appropriate description Added “two RHR loops shall be” after “and” Replaced “loop is” with “loops are” in NOTE 2
3.9.6-1	LCO 3.9.6, NOTE 3	Editorial: Change to appropriate description Deleted NOTE 3.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
3.9.6-2	LCO 3.9.6, ACTION B3	Editorial: Change to appropriate description Brackets both side of “four” were removed.
3.9.6-3	SR 3.9.6.2	Editorial: Change to appropriate description Added SR 3.9.6.2.
4.0-1	4.1	Editorial I: Removed duplicate information, because bracket [] means COLA. Replaced “[Text description of site location. COLA]” with “[Text description of site location.]”
4.0-2	4.3.1.1 b, 4.3.1.1 c	Editorial: Change to appropriate description The conjunction “and” in the end of the 4.3.1.1 b was moved to the end of 4.3.1.1 c, and two periods (“.”) in the end of 4.3.1.1 c were replaced to comma (“,”).
4.0-2	4.3.1.1 c.	Editorial: Change to appropriate description Replaced “[This information will be provided by the COLA]” with “[200]”
4.0-2	4.3.2, paragraph	Editorial: Change to appropriate description Replaced "below elevation 23ft" with “below 23 ft above the top of irradiated fuel assemblies seated in the storage racks.”
5.1-1	5.1.1	Editorial: Removed duplicate information, because bracket [] means COLA. Replaced “[plant manager COLA]” with “[plant manager]”
5.1-1	5.1.2	Editorial: Removed duplicate information, because bracket [] means COLA. Replaced “[Shift Supervisor COLA]”with “[Shift Supervisor]”
5.2-1	5.2.1 a	Editorial: Removed duplicate information, because bracket [] means COLA. Replaced “[FSAR/QA Plan COLA]”with “[FSAR/QA Plan]”
5.2-1	5.2.1 b	Editorial: Removed duplicate information, because bracket [] means COLA. Replaced “[plant manager COLA]” with “[plant manager]”

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.2-2	5.2.2 a	Editorial: Corrected the information for single unit plant. Replaced "...shall be assigned to each reactor containing..." with "...shall be assigned when the reactor contains..." Replaced "...shall be assigned for each control room..." with "...shall be assigned for the control room..."
5.2-2	5.2.2 c	Editorial: Identified as TBD information. Replaced "A radiation protection technician" with "[A radiation protection technician]"
5.2-2	5.2.2 d	Editorial: Identified as TBD information. Replaced "licensed Senior Reactor Operators (SROs), licensed Reactor Operators (ROs), health physicists, auxiliary operators, and key maintenance personnel" with "[licensed Senior Reactor Operators (SROs), licensed Reactor Operators (ROs), health physicists, auxiliary operators, and key maintenance personnel]"
5.2-2	5.2.2 d	Editorial: Removed duplicate information, because bracket [] means COLA. Replaced "[plant manager COLA]" with "[plant manager]"
5.2-2	5.2.2 d	Editorial: Removed duplicate information, because bracket [] means COLA. Replaced "[plant manager's COLA]" with "[plant manager's]"
5.2-2	5.2.2 e	Editorial: Removed duplicate information, because bracket [] means COLA. Replaced "[operations manager or assistant operations manager COLA]" with "[operations manager or assistant operations manager]"
5.3-1	5.3.1	Editorial: Removed duplicate information, because bracket [] means COLA. Removed "COLA"
5.5.1	5.5.1 a.2 3 rd line	Editorial: Correct typographical error Inserted "do" between "and" and "not"
5.5-1	5.5.1 b	Editorial: Removed duplicate information, because bracket [] means COLA. Replaced "[plant manager COLA]" with "[plant manager]"

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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5.5-6	5.5.9 a.	Editorial: Change to appropriate description Bracketed such as “[or repaired]”
5.5-6	5.5.9 b. 2.	Editorial: Correct typographical error Replaced “1 gpm” with "150 gpd"
5.5-6	5.5.9 b. 2.	Editorial: Change to appropriate description Added the phrase and bracketed such as “[, except for specific types of degradation at specific locations as described in paragraph c of the Steam Generator Program.]”
5.5-7	5.5.9 c. paragraph	Editorial: Change to appropriate description Bracketed such as “[or repaired]”
5.5-7	5.5.9 c. 1	Editorial: Change to appropriate description Removed “following SG replacement”
5.5-9	5.5.10 c.	Editorial: Correct typographical error Replaced “in leakage” with “inleakage”
5.5-10, 5.5-11	5.5.11 Ventilation Filter Testing Program (VFTP)	Editorial: Correct typographical error Replaced "Regulatory Guide 1.52, Revision 2" with "Regulatory Guide 1.52, Revision 3" at five locations.
5.5-14	5.5.15 a.	Editorial: Correct typographical error Inserted “-” between “cross” and “train”
5.5-17	5.5.18	Editorial: To clarify that the adoption of RMTS is a choice of COL applicant. Added a sentence “[Not used OR” at the beginning of the subsection.
5.5-17	5.5.18 first paragraph	Editorial: To make better consistency. Brief Explanation of CRMP was added so as to match the description styles of other operational programs in Section 5.5.
5.5-17	5.5.18 a.3	Editorial: Correct typographical error Corrected typo “required”.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.5-17	5.5.18 a.3	Editorial: Required change due to extension of RMTS applied LCOs. Replaced “trains” with “subsystems and components” to cover broader objects.
5.5-18	5.5.18 c	Editorial: To reflect NRC comments obtained at DCWG meeting on July 1 st . A bracket at the beginning of the first sentence of item c was removed. Modified the description in order to make it more appropriately as that of Technical Specifications after approval.
5.5-18	5.5.19	Editorial: (1). Incorporation of customer’s preference. (2). To clarify that the adoption of SFCP is a choice of COL applicant. (1). Added the subsection of SFCP. (2). Added a sentence “Not used OR” at the beginning of the subsection and whole subsection was bracketed.
5.5-19, 5.5-20	5.5.20 Control Room Envelope Habitability Program	Technical: Reflect the latest reference Added this program to reflect TSTF-448 revision 3.
5.6-1	5.6.1 1 st sentence of the 2 nd paragraph	Editorial: Removed duplicate information, because bracket [] means COLA. Removed “COLA”
5.6-2	5.6.3 a.	Editorial: Change to appropriate description Removed “reload” at two locations
5.6-2	5.6.3 b.1	Editorial: Correct the title and the report number Replaced “MUAP-07026, “Mitsubishi Reload Safety Evaluation Methodology”, December, 2007” with “MUAP-07026-P, “Mitsubishi Reload Evaluation Methodology”, December, 2007”.
5.6-3	5.6.3 d	Editorial: Change to appropriate description Removed “reload”
5.6-5	e. paragraph	Editorial: Change to appropriate description Bracketed such as “[or repaired]”

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
5.6-5	f. paragraph	Editorial: Change to appropriate description Bracketed such as “[or repaired]”
5.6-5	h. paragraph	Editorial: Change to appropriate description Bracketed Paragraph-h.
5.6-5	i. paragraph	Editorial: Change to appropriate description Bracketed Paragraph-i.
5.7-1	5.7 High Radiation Area	Editorial: Change to appropriate description All in Section 5.7 were changed to Combined License Item.
5.7-1	5.7.1 c.	Editorial: Correct typographical error Replaced “an” with “a” before “radiation work permit” (Same corrections were done in two other locations: 5.7.2 b. and c.)
5.7-2	5.7.1 Subsection title 3 rd line	Editorial: Correct typographical error Replaced “...from the Radiation Source of ...” with “...from the Radiation Source or ...”
5.7-2	5.7.2 Subsection title, 2nd line	Editorial: Correct typographical error Replaced “Radiation Source of from any” to “Radiation Source or from any”
5.7-3	5.7.2 Subsection title, 2nd line	Editorial: Correct typographical error Replaced “Radiation Source of from any” to “Radiation Source or from any”
5.7-3	5.7.2 d.	Editorial: Correct typographical error Inserted “or” between “individual” and “group”
5.7-4	5.7.2 Subsection title, 2nd line	Editorial: Correct typographical error Replaced “Radiation Source of from any” to “Radiation Source or from any”
Bases		
General	-	Editorial: Correct typographical error Replaced “10 CFR 50.36(c)(2)(ii)” with “10 CFR 50.36(d)(2)(ii)”

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change												
General	-	<p>Technical: Incorporation of customer's preference Risk-Informed Technical Specification Initiative 4b were incorporated which involved changes to the following LCOs and associated Bases.</p> <table border="0"> <tr> <td>LCO3.3.1</td> <td>LCO3.3.2</td> <td>LCO3.3.3</td> </tr> <tr> <td>LCO 3.4.11</td> <td>LCO 3.5.1</td> <td>LCO3.5.4</td> </tr> <tr> <td>LCO 3.6.2</td> <td>LCO 3.6.3</td> <td>LCO 3.7.2</td> </tr> <tr> <td>LCO 3.7.4</td> <td>LCO 3.7.6</td> <td>LCO 3.8.9</td> </tr> </table> <p>LCO 3.7.10 and LCO 3.8.5 were excluded to incorporate Initiative 4b.</p>	LCO3.3.1	LCO3.3.2	LCO3.3.3	LCO 3.4.11	LCO 3.5.1	LCO3.5.4	LCO 3.6.2	LCO 3.6.3	LCO 3.7.2	LCO 3.7.4	LCO 3.7.6	LCO 3.8.9
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LCO 3.4.11	LCO 3.5.1	LCO3.5.4												
LCO 3.6.2	LCO 3.6.3	LCO 3.7.2												
LCO 3.7.4	LCO 3.7.6	LCO 3.8.9												

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change																																																									
General	-	<p>Technical: Incorporation of customer's preference Risk-Informed Technical Specification Initiative 5b were incorporated based on TSTF-425 which involved changes to the following LCOs and associated Bases.</p> <table border="0"> <tr> <td>LCO 3.1.1</td> <td>LCO 3.1.2</td> <td>LCO 3.1.4</td> </tr> <tr> <td>LCO 3.1.5</td> <td>LCO 3.1.6</td> <td>LCO 3.1.9</td> </tr> <tr> <td>LCO 3.2.1</td> <td>LCO 3.2.2</td> <td>LCO 3.2.3</td> </tr> <tr> <td>LCO 3.2.4</td> <td>LCO 3.3.1</td> <td>LCO 3.3.2</td> </tr> <tr> <td>LCO 3.3.3</td> <td>LCO 3.3.4</td> <td>LCO 3.3.5</td> </tr> <tr> <td>LCO 3.3.6</td> <td>LCO 3.4.1</td> <td>LCO 3.4.2</td> </tr> <tr> <td>LCO 3.4.3</td> <td>LCO 3.4.4</td> <td>LCO 3.4.5</td> </tr> <tr> <td>LCO 3.4.9</td> <td>LCO 3.4.11</td> <td>LCO 3.4.12</td> </tr> <tr> <td>LCO 3.4.13</td> <td>LCO 3.4.14</td> <td>LCO 3.4.15</td> </tr> <tr> <td>LCO 3.4.16</td> <td>LCO 3.5.1</td> <td>LCO 3.5.2</td> </tr> <tr> <td>LCO 3.5.4</td> <td>LCO 3.5.5</td> <td>LCO 3.6.2</td> </tr> <tr> <td>LCO 3.6.3</td> <td>LCO 3.6.4</td> <td>LCO 3.6.5</td> </tr> <tr> <td>LCO 3.6.6</td> <td>LCO 3.7.2</td> <td>LCO 3.7.3</td> </tr> <tr> <td>LCO 3.7.4</td> <td>LCO 3.7.5</td> <td>LCO 3.7.6</td> </tr> <tr> <td>LCO 3.7.7</td> <td>LCO 3.7.8</td> <td>LCO 3.7.10</td> </tr> <tr> <td>LCO 3.7.11</td> <td>LCO 3.7.12</td> <td>LCO 3.7.13</td> </tr> <tr> <td>LCO 3.7.14</td> <td>LCO 3.8.1</td> <td>LCO 3.8.3</td> </tr> <tr> <td>LCO 3.8.4</td> <td>LCO 3.8.6</td> <td>LCO 3.8.7</td> </tr> <tr> <td>LCO 3.8.9</td> <td></td> <td></td> </tr> </table>	LCO 3.1.1	LCO 3.1.2	LCO 3.1.4	LCO 3.1.5	LCO 3.1.6	LCO 3.1.9	LCO 3.2.1	LCO 3.2.2	LCO 3.2.3	LCO 3.2.4	LCO 3.3.1	LCO 3.3.2	LCO 3.3.3	LCO 3.3.4	LCO 3.3.5	LCO 3.3.6	LCO 3.4.1	LCO 3.4.2	LCO 3.4.3	LCO 3.4.4	LCO 3.4.5	LCO 3.4.9	LCO 3.4.11	LCO 3.4.12	LCO 3.4.13	LCO 3.4.14	LCO 3.4.15	LCO 3.4.16	LCO 3.5.1	LCO 3.5.2	LCO 3.5.4	LCO 3.5.5	LCO 3.6.2	LCO 3.6.3	LCO 3.6.4	LCO 3.6.5	LCO 3.6.6	LCO 3.7.2	LCO 3.7.3	LCO 3.7.4	LCO 3.7.5	LCO 3.7.6	LCO 3.7.7	LCO 3.7.8	LCO 3.7.10	LCO 3.7.11	LCO 3.7.12	LCO 3.7.13	LCO 3.7.14	LCO 3.8.1	LCO 3.8.3	LCO 3.8.4	LCO 3.8.6	LCO 3.8.7	LCO 3.8.9		
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LCO 3.8.9																																																											
General	-	<p>Editorial: Correct typographical error</p> <p>Replaced "... the requirement of Specification 5.5.18" with "... the requirements of Specification 5.5.18".</p>																																																									

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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General	-	<p>Editorial: Change to appropriate description</p> <p>Replaced “Only two OPERABLE” with “One required Inoperable”.</p> <p>Replaced “Only two required OPERABLE” with “One required Inoperable”.</p> <p>Replaced “Only one required OPERABLE” with “One required Inoperable”.</p>
General	-	<p>Technical: Incorporation of customer’s preference</p> <p>The SFCP was applied to shutdown mode when allowed in TSTF-425. Applied SFCP to following SRs and associated Bases.</p> <p>SR 3.4.6.1, SR 3.4.6.2, SR 3.4.6.3, SR 3.4.7.1, SR 3.4.7.2, SR 3.4.7.3, SR 3.4.8.1, SR 3.4.8.2, SR 3.8.8.1, SR 3.8.10.1, SR 3.9.1.1, SR 3.9.2.1, SR 3.9.3.1, SR 3.9.3.2, SR 3.9.4.1, SR 3.9.4.2, SR 3.9.4.3, SR 3.9.5.1, SR 3.9.6.1, SR 3.9.6.2, SR 3.9.7.1</p>
General	-	<p>Editorial: Reflection of NEI 06-09 constraint</p> <p>The application of RMTS was removed in Mode 4. Added Note “This Required Action is not applicable in MODE 4” in the following REQUIRED ACTIONS.</p> <p>3.3.2 REQUIRED ACTION Q.2</p> <p>3.5.4 REQUIRED ACTION A.2</p> <p>3.6.2 REQUIRED ACTION A.2.2, B2.2, C3.2,</p> <p>3.6.3 REQUIRED ACTION C.1.2</p> <p>3.6.6 REQUIRED ACTION A.2,</p> <p>3.7.7 REQUIRED ACTION A.2</p> <p>3.7.8 REQUIRED ACTION A.2,</p> <p>3.8.1 REQUIRED ACTION A.2.2, B.4.2,C.2, D.3, F.2</p> <p>3.8.4 REQUIRED ACTION A.3.2</p> <p>3.8.7 REQUIRED ACTION A.2</p> <p>3.8.9 REQUIRED ACTION A.2</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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General	-	<p>Technical: Clarify that the adoption of RMTS is a choice of COL applicants</p> <p>Added brackets in the followings related to the requirements of Specification 5.5.18</p> <p>LCO 3.3.1, LCO 3.3.2, LCO 3.3.3, LCO 3.4.11, LCO 3.5.1, LCO 3.5.2, LCO 3.5.4, LCO 3.6.2, LCO 3.6.3, LCO 3.6.6, LCO 3.7.2, LCO 3.7.4, LCO 3.7.6, LCO 3.7.7, LCO 3.7.8, LCO 3.8.1, LCO 3.8.4, LCO 3.8.7, LCO 3.8.9</p>
General	-	<p>Editorial: Change to appropriate description</p> <p>Replaced “Three of four” with “Three” in the following LCOs.</p> <p>LCO 3.5.2, LCO 3.6.6, LCO 3.7.7, LCO 3.7.8, LCO 3.7.10, LCO 3.8.1, LCO 3.8.4, LCO 3.8.7</p>
General	-	<p>Editorial: Change to appropriate description</p> <p>Changed “gal” to “gallons”.</p>
B2.1.2-1	BACKGROUND Second paragraph	<p>Editorial: Change of pressure unit.</p> <p>Replaced “2500 psia” with “2485 psig”</p>
B3.0-9,10	LCO 3.0.8	<p>Technical: Incorporation of the latest STS contents</p> <p>Brackets were removed.</p>
B 3.1.3-6	REFERENCES Reference 3	<p>Editorial: Correct the title and the report number.</p> <p>Replaced “MUAP-07026, “Mitsubishi Reload Safety Evaluation Methodology”, December, 2007” with “MUAP-07026-P, “Mitsubishi Reload Evaluation Methodology”, December, 2007”.</p>
B 3.1.6-6	Figure B 3.1.6-1	<p>Editorial: Change to appropriate description</p> <p>Replaced brackets “[] “ with parentheses “()”.</p> <p>Replaced “DO NOT USE FOR OPERATION” with “REFER TO THE COLR FOR OPERATION”</p>
B 3.1.8-8	REFERENCES Reference 5	<p>Editorial: Correct the title and the report number</p> <p>Replaced “MUAP-07026, “Mitsubishi Reload Safety Evaluation Methodology”, December, 2007” with “MUAP-07026-P, “Mitsubishi Reload Evaluation Methodology”, December, 2007”</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

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B 3.1.9-8	REFERENCES Reference 5	Editorial: Correct the title and the report number Replaced “MUAP-07026, “Mitsubishi Reload Safety Evaluation Methodology”, December, 2007” with “MUAP-07026-P, “Mitsubishi Reload Evaluation Methodology”, December, 2007”
B 3.2.3-8	Note in the figure	Editorial: Change to appropriate description Replaced “DO NOT USE FOR OPERATION” with “REFER TO THE COLR FOR OPERATION”
B3.3.1-2	BACKGROUND 3 rd Paragraph 4 th Line in this page	Editorial: Revision of nomenclature Revision of nomenclature as below; “Allowable Value is verified at ...” to “CHANNEL CALIBRATION verifies the instrument at ...”
B3.3.1-3	7 th Line	Editorial: Change of pressure unit. Replaced “2750 psia“ with “2735 psig”
B3.3.1-34	ACTIONS F1 and F2 2nd Paragraph Last Line	Editorial: Extra period was deleted. Replaced “ ... is based on operating experience..” with “ ... is based on operating experience.”
B3.3.2-1	BACKGROUND	Editorial: Change to appropriate description Replaced “The Allowable Value is verified at five calibration setpoints” with “The CHANNEL CALIBRATION verifies the instrument at five calibration setpoints”.
B3.3.2-2	BACKGROUND Signal Processing Equipment	Editorial: Correct typographical error Replaced “three channels” with “four channels”.
B3.3.2-10	BACKGROUND e. ECCS Actuation – Low Main Steam Line Pressure	Editorial: Change to appropriate description Deleted the 3 rd paragraph of the description for main steam line pressure transmitters.
B3.3.2-28	BACKGROUND e. Emergency Feedwater Isolation – Low Main Steam Line Pressure	Editorial: Change to appropriate description Deleted the 3 rd paragraph of the description for main steam line pressure transmitters.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B3.3.2-52	SR 3.3.2.2	Editorial: Correct typographical error Changed "STAGGERD" to "STAGGERED".
B3.3.2-52	SR 3.3.2.2	Editorial: Correct typographical error Changed "BASI" to "BASIS".
B3.3.3-1	BACKGROUND	Editorial: Correct typographical error Regulated an indent position of "Type B" corresponding to other indent positions.
B3.3.6-1	BACKGROUND	Editorial: Correct typographical error Replaced "Diverse Human Systems Interface Panel" with "Diverse Human System Interface Panel".
B3.3.6-2	BACKGROUND Field Transmitter or Sensors	Editorial: Correct typographical error Replaced "three, filed transmitters or sensors" with "four field transmitters or sensors".
B3.3.6-2	BACKGROUND DAAC Signal Processing Equipment	Editorial: Correct typographical error Replaced "three channels" with "four channels".
B3.3.6-5	BACKGROUND Diverse Human System Interface Panel	Editorial: Correct typographical error Replaced "Diverse Human Systems Interface Panel" with "Diverse Human System Interface Panel".
B3.3.-6-6	APPLICABLE SAFETY ANALYSES, LCO and APPLICABILITY	Editorial: Correct typographical error Replaced "two-out-of-three voting logic" with "two-out-of-four voting logic" in c. Low Pressurizer Pressure and d. High Pressurizer Pressure.
B3.3.6-12	REFERENCES 2.	Editorial: Technical Report was revised. Replaced "MUAP-07014-NP (Non-Proprietary), D3 coping analysis Technical Report" with MUAP-07014-P (Proprietary) and MUAP-07014-NP (Non-Proprietary), Defense-in-Depth and Diversity Coping Analysis."
B 3.4.1-4	SR 3.4.1.4	Editorial: Change to appropriate description Eliminate "once every 24 months".

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B 3.4.9-1 through B 3.4.9-4	B 3.4.9, header	Editorial: Correct typographical error The header "Pressurizer B 3.4.9" was missing so it was added. There should be a single line at the bottom of each page except the last page.
B 3.4.9-4	B 3.4.9, SR 3.4.9.2	Editorial: Change to appropriate description A space was added between "24months".
B 3.4.10-2	LCO	Editorial: Change of pressure unit. Replaced "2500 pisa" with "2485 pisg"
B 3.4.11-5	B 3.4.11, SR 3.4.11.1	Editorial: Change to appropriate description A space was added between "Notestating" in 2nd paragraph.
B 3.4.12-2	B 3.4.12, BACKGROUND 7 th paragraph	Editorial: Change to appropriate description A statement "Three RHR suction relief valves are required for redundancy" was deleted.
B 3.4.12-5	B 3.4.12, LCO 2 nd paragraph	Editorial: Change to appropriate description It stated "To limit the coolant input capability, the LCO requires that a maximum of two safety injection pumps and one charging pump becapable of injecting into the RCS,..." A space was added between "...be capable ..."
B 3.4.12-5	B 3.4.12, LCO 3 rd paragraph	Editorial: Change to appropriate description It stated "The LCO is modified by two Notes. Note 1 allows two charging pumps] to be made capable of injecting for ≤ 1 hour during pump swap operations." The bracket after pumps was removed so that it reads "Note 1 allows two charging pumps to be made capable of injecting for ≤ 1 hour during pump swap operations."
B 3.4.12-6	B 3.4.12, LCO	Editorial: Change to appropriate description B.3.4.12 LCO "a. Three OPERABLE RHR suction relief valves, ..." was changed "a. Two OPERABLE RHR suction relief valves, ...", because this portion is not consistent with LCO of "Two OPERABLE RHR suction relief valves".
B 3.4.14-5	B 3.4.14, SR 3.4.14.1	Editorial: Change to appropriate description SR 3.4.14.1 in the text "Testing must also be performed once, to ensure tight reseating after an RCS PIV has been actuated ." a space was deleted between "actuated." and the period.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B3.4.16-1	BACKGROUND, 1st paragraph, 1st line	Editorial: Correct grammatical error Replaced “dose to the whole body and the thyroid” with “total effective dose equivalent”.
B3.4.16-1	BACKGROUND, 1st paragraph, 3rd line	Editorial: Clarified statement Added space before “50.34”.
B3.4.16-1	BACKGROUND, 3rd paragraph, 2nd line	Editorial: Clarified statement Deleted “The” before “LCO”.
B3.4.16-1	BACKGROUND, 3rd paragraph, 3rd line	Editorial: Clarified statement Deleted unnecessary period.
B3.4.16-1	APPLICABLE SAFETY ANALYSES, 1st paragraph, 8th line	Editorial: Clarified LCO number Replaced “from LCO 3.714” with “from LCO 3.7.14”.
B3.4.16-2	APPLICABLE SAFETY ANALYSES, 3rd paragraph, 4th line	Editorial: Clarified statement Added space between “coolant” and “after” .
B3.4.16-2	APPLICABLE SAFETY ANALYSES, 3rd paragraph, 5th line	Editorial: Clarified statement Replaced “60.0 µCi/gm” with “60 µCi/gm”.
B3.4.16-2	LCO, 1st paragraph, 5th line	Editorial: Clarified statement Added space before “CFR” and after “CFR”.
B3.4.16-2	APPLICABILITY, 1st paragraph, 3rd line	Editorial: Clarified statement Added space after “XE-133”.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B3.4.16-3	ACTIONS, last paragraph, 2nd line	Editorial: Clarified statement Added space before "60 µCi/gm".
B 3.4.17-2	LCO The first paragraph	Editorial: Change to appropriate description Bracketed such as "[or repaired]"
B 3.4.17-2	LCO The second paragraph	Editorial: Change to appropriate description Bracketed such as "[repaired or]"
B 3.4.17-2	LCO The second paragraph	Editorial: Change to appropriate description Bracketed such as "[or repaired]"
B 3.4.17-2	LCO The third paragraph	Editorial: Change to appropriate description Bracketed such as "[and any repairs made to it]"
B 3.4.17-4	ACTIONS The second paragraph, 3th line	Editorial: Change to appropriate description Bracketed such as "[or repaired]"
B 3.4.17-4	ACTIONS The second paragraph, 10th line	Editorial: Change to appropriate description Bracketed such as "[or repaired]"
B 3.4.17-5	ACTION The third paragraph	Editorial: Change to appropriate description Bracketed such as "[or repaired]"
B 3.4.17-6	SURVEILLANCE REQUIREMENTS The third paragraph	Editorial: Change to appropriate description Bracketed such as "[repaired or]"
B 3.4.17-6	SURVEILLANCE REQUIREMENTS The forth paragraph	Editorial: Change to appropriate description Bracketed the paragraph such as "[Steam generator tube repairs are only performed using approved repair methods as described in the Steam Generator Program.]"

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B 3.4.17-6	SURVEILLANCE REQUIREMENTS The last paragraph	Editorial: Change to appropriate description Bracketed such as “[or repaired]”
B 3.5.1-2	B 3.5.1, intro paragraph for APPLICABLE SAFETY ANALYSES	Editorial: Modify to be easy to read Reformatted to move “Basis” to the next line.
B 3.5.4-3	APPLICABLE SAFETY ANALYSES, 2nd paragraph	Editorial: Change of volume unit. Replaced “44,000 ft ³ ” with “329,150 gallons”
B3.6.1-3	LCO	Editorial: Correct typographical error Replaced “(LCO3.6.2)]” with “(LCO3.6.2)”.
B3.6.1-4	SURVEILLANCE REQUIREMENTS, SR 3.6.1.1	Editorial: Correct typographical error Replaced “LCO3.6.2]” with “LCO3.6.2”.
B3.6.1-5	REFERENCES 5	Editorial: Change to appropriate description Replaced “ANSI/ANS-56-8-2002” with “NEI94-01”.
B3.6.4-1	APPLICABLE SAFETY ANALYSES, 2nd paragraph	Editorial: Change of pressure unit. Replaced “16.7 psia(2.0 psig)” with “2.0 psig”.
B 3.6.6-1	B 3.6.6, BACKGROUND 1 st paragraph	Editorial: Correct typographical error A bracket was added after “(Ref.1.”
B 3.6.6-6	B 3.6.6, SR 3.6.6.3 and SR 3.6.6.4 1 st paragraph	Editorial: Change to appropriate description It stated “Operating experience has shown that these components usually pass the Surveillances when performed at the 24] month Frequency.” The bracket after 24 was removed so that it reads “Operating experience has shown that these components usually pass the Surveillances when performed at the 24 month Frequency.”
B 3.7.1-4	ACTIONS	Editorial: Correct typographical error Brackets both side of “9” were removed.
B 3.7.1-5	B 3.7.1, SR 3.7.7.1 2 nd paragraph	Editorial: Change to appropriate description “3%” was replaced with “1%”.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B 3.7.3-1	B 3.7.3, title line	<p>Editorial: Change to appropriate description</p> <p>The title line stated “B 3.7.3 Main Feedwater Isolation Valves (MFIVs), Main Feedwater Regulation Valves (MFRVs) [Main Feedwater Bypass Regulation Valves (MFBRVs), and Steam Generator Water Filling Control Valve (SGWFCV)]”. The brackets were removed and a comma added so it states “B 3.7.3 Main Feedwater Isolation Valves (MFIVs), Main Feedwater Regulation Valves (MFRVs), Main Feedwater Bypass Regulation Valves (MFBRVs), and Steam Generator Water Filling Control Valve (SGWFCV)”.</p>
B 3.7.3-1	B 3.7.3, header	<p>Editorial: Change to appropriate description</p> <p>The header stated “MFIVs, MFRVs MFBRVs, and SGWFCVs”. A comma was added so it states “MFIVs, MFRVs, MFBRVs, and SGWFCVs”.</p>
B 3.7.4-3	APPLICABILITY	<p>Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs.</p> <p>Deleted “and in MODE 4, when a steam generator is being relied upon for heat removal,”</p>
B 3.7.4-3	APPLICABILITY	<p>Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs.</p> <p>Changed “In MODE 5 or 6, an SGTR is not a credible event.” to “In MODE 4, 5 or 6, an SGTR is not a credible event.”</p>
B3.7.4-3	ACTIONS 3 rd paragraph (item “C.1 and C.2”)	<p>Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs.</p> <p>Deleted “,without reliance upon steam generator for heat removal”</p>
B 3.7.5-1	BACKGROUND 3 rd paragraph	<p>Editorial: Change to appropriate description</p> <p>Replaced “tie” with “cross-connect”</p>
B 3.7.5-3	APPLICABLE SAFETY ANALYSES, LCO	<p>Editorial: Modify to be easy to read</p> <p>A page break is inserted between Bases for LCO and Bases for Applicability. “BASES” is at the bottom of the page B 3.7.5-3 and needed to be moved to the top of the next page B 3.7.5-4.</p>
B 3.7.5-3	LCO, 1st paragraph	<p>Editorial: Correct typographical error</p> <p>Replaced “connection tie” with “cross-connect”</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B 3.7.5-3	LCO	<p>Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs.</p> <p>Deleted "The LCO is modified by a Note indicating that two EFW trains, which include a motor driven pumps, are required to be OPERABLE in MODE 4. (During OLM, one EFW train, which include a motor driven pump, is required) This is because of the reduced heat removal requirements, short of time period during MODE 4 and insufficient steam available to power the turbine driven EFW pumps.</p>
B 3.7.5-4	APPLICABILITY	<p>Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs.</p> <p>Added supplementary description of "See the BASES for 3.4.6."</p>
B 3.7.5-4	ACTIONS 2 nd paragraph (item "A.1 and A.2")	<p>Editorial: Change to appropriate description</p> <p>Replaced "connection tie" with "cross-connect"</p>
B 3.7.5-5	ACTIONS 7 th paragraph (item "B.1")	<p>Editorial: Change to appropriate description</p> <p>Replaced "connection tie" with "cross-connect"</p>
B 3.7.5-6	ACTIONS 11 th paragraph (item "D.1")	<p>Editorial: Change to appropriate description</p> <p>Replaced "one EFW train" with "one additional EFW train"</p>
B3.7.5-6	ACTIONS	<p>Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs.</p> <p>Deleted "E.1 In MODE 4, either the reactor coolant pumps or the RHR loops can be used to provide forced circulation. This is addressed in LCO 3.4.6, "RCS Loops - MODE 4." With required EFW train inoperable, action must be taken to immediately restore the inoperable train to OPERABLE status. The immediate Completion Time is consistent with LCO 3.4.6."</p>
B 3.7.6-1	BACKGROUND	<p>Editorial: Correct typographical error</p> <p>Replaced "Chapter 9" with Chapter 10"</p>
B 3.7.6-1	APPLICABLE SAFETY ANALYSES 1 st paragraph	<p>Technical: The analysis assumption is 2 hours at MODE 3.</p> <p>Changed "30 minutes" to "2 hours".</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B 3.7.6-1	APPLICABLE SAFETY ANALYSES	<p>Technical: The EFWS has automatic feedwater isolation function.</p> <p>Deleted "A nonlimiting event considered in the EFW Pits inventory determinations is a break in either the main feedwater or EFW line near where the two join. This break has the potential for dumping condensate until terminated by operator action, since the Emergency Feedwater Actuation System would not detect a difference in pressure between the steam generators for this break location. This loss of condensate inventory is partially compensated for by the retention of steam generator inventory."</p>
B 3.7.6-2	LCO 2 nd paragraph	<p>Technical: The minimum actual usable volume of the pit is 204,850 gallons/pit.</p> <p>Changed "241,000" to "204,850".</p>
B 3.7.6-2	LCO 1 st paragraph	<p>Technical: The analysis assumption is 2 hours at MODE 3.</p> <p>Changed "30 minutes" to "2 hours".</p>
B 3.7.6-2	LCO 2 nd paragraph	<p>Technical: The US-APWR hold the plant in MODE 3 for 8 hours, followed by a cooldown to RHR entry conditions within 6 hours.</p> <p>Changed "holding the unit in MODE 3 for 2 hours, followed by a cooldown to RHR entry conditions at 50°F/hour" to "holding the unit in MODE 3 for 8 hours, followed by a cooldown to RHR entry conditions within 6 hours".</p>
B 3.7.6-2	LCO 3 rd paragraph	<p>Editorial: Correct typographical error</p> <p>Replaced "tank" with "pit"</p>
B 3.7.6-2	APPLICABILILTY	<p>Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs.</p> <p>Deleted "and in MODE 4, when a steam generator is being relied upon for heat removal,"</p>
B 3.7.6-2	APPLICABILILTY	<p>Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs.</p> <p>Changed "In MODE 5 or 6, the EFW Pits are not required because the EFW System is not required." to "In MODE 4,5 or 6, the EFW Pits are not required because the EFW System is not required."</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B 3.7.6-3	ACTIONS 2 nd paragraph (item "B.1 and B.2")	Technical: The SG heat removal in MODE 4 is not credited in DBAs and PRAs. Deleted ",without reliance upon steam generator for heat removal"
B3.7.10-1 to B3.7.10-10	Overall of B3.7.10	Technical: Reflect the latest reference TSTF-448 was reflected to the description of bases of LCO 3.7.10.
B3.7.10-3	BACKGROUND 3rd paragraph	Editorial: Correct typographical error Replaced "MCRATS" with "MCRATCS".
B3.7.10-4	APPLICABLE SAFETY ANALYSES 2nd paragraph	Editorial: Correct typographical error Replaced "MCRATS" with "MCRATCS".
B3.7.10-6	ACTIONS, CONDITION B	Editorial: Correct typographical error Deleted the description for B.2.
B3.7.11-2	APPLICABLE SAFETY ANALYSES	Editorial: Correct typographical error Replaced "Chapter (Ref.3)" with "Chapter 15 (Ref.3)".
B 3.7.12-1	APPLICABLE SAFETY ANALYSES First paragraph	Editorial: Correction of the referred Regulatory Guide number Replaced "Regulatory Guide 1.25" with "Regulatory Guide 1.183".
B 3.7.12-1	APPLICABLE SAFETY ANALYSES First paragraph	Editorial: Quote of a term in 10 CFR 50.34 Replaced "thyroid dose" with "effective dose".
B 3.7.12-1	APPLICABLE SAFETY ANALYSES Second paragraph	Editorial: Simplified the expression Replaced "although analysis shows that only the first few rows fail from a hypothetical maximum drop" with "conservatively".
B 3.7.12-2	REFERENCES	Editorial: Correction of typographical error Deleted a period before "Chapter15".
B 3.7.12-2	REFERENCES	Editorial: Correction of the referred Regulatory Guide number Replaced "Regulatory Guide 1.25, Rev.0" with "Regulatory Guide 1.183, July 2000".

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B 3.7.13-1	B 3.7.13, BACKGROUND	<p>Editorial: Change to appropriate description</p> <p>Changed “10CFR50.68 (4) (Ref. 1 and 2) for soluble boron” with “10 CFR 50.68 (b)(4) for soluble boron credit” in the 2nd paragraph.</p>
B 3.7.13-1	B 3.7.13, APPLICABLE SAFETY ANALYSES	<p>Editorial: Change to appropriate description</p> <p>Changed “activity” to “reactivity” and added “fuel” before “storage pit” in the first line.</p> <p>Changed the 2nd line by deleting “Examples”, “are”, and “the loss of cooling (reactivity increase with decreasing water density) and” and replacing with “An example”, “is” and “straight and inclined”, respectively, and changing “on the top of the rack” to “onto the top of the rack”.</p> <p>Modified the 3rd line by adding “that could increase reactivity” after “accidents.”</p> <p>Added the word “abundant” before “soluble boron” in the 5th line.</p> <p>Deleted the 6th and 7th lines.</p> <p>Modified the 8th line from “The second type of postulated accidents is associated with a fuel assembly which is dropped adjacent to the fully loaded storage rack” to “One accident that can be postulated is associated with a fuel assembly which is dropped on or misloaded between fully loaded storage racks.”</p> <p>Deleted lines 11 and 12.</p>
B 3.7.13-1	B 3.7.13, LCO	<p>Editorial: Change to appropriate description</p> <p>Added “according to the RWSP and refueling requirements” at the end of the 1st line.</p> <p>Added “the soluble boron credit, including” between “analyses of” and “the potential critical accident” in the 2nd line, and changed “Reference 4” to “Reference 1.”</p> <p>Modified the 3rd line by replacing “the minimum required concentration for” with “necessary to control reactivity during.”</p>
B 3.7.13-2	B3.7.13, APPLICABILITY	<p>Editorial: Change to appropriate description</p> <p>Deleted and placed commas in the 1st line.</p> <p>Deleted the comma after “following the verification.”</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B 3.7.13-2	B 3.7.13, ACTIONS	Editorial: Change to appropriate description Deleted the only line of the 1 st paragraph. Added “which is” before “required” in the 1st line of the 2 nd paragraph. Added two commas in the 4 th line. Added “the” after “Therefore,” of the last line in the 3 rd paragraph.
B 3.7.13-2	B3.7.13, SURVEILLANCE REQUIREMENTS	Editorial: Change to appropriate description Deleted “analyzed”, and added “mentioned” in the 2 nd line. Changed “7 day Frequency” to “7-day Frequency”.
B 3.7.13-2	B3.7.13, REFERENCES	Editorial: Change to appropriate description Deleted references 1 to 3 and added “Chapter 9” as reference.
B3.7.14-1	APPLICABLE SAFETY ANALYSES, 1st paragraph, 1st line	Editorial: Clarified statement Replaced "main steam line break accident (MSLB)" with "steam system piping failure".
B3.7.14-1	APPLICABLE SAFETY ANALYSES, 1st paragraph, 7th line	Editorial: Clarified statement Replaced "an MSLB" with "the steam system piping failure".
B3.7.14-1	APPLICABLE SAFETY ANALYSES, 1st paragraph, last line	Editorial: Clarified statement Replaced “ whole body and thyroid dose rates “ with “ total effective dose equivalent”.
B3.7.14-1	APPLICABLE SAFETY ANALYSES, 2nd paragraph, 3rd line	Editorial: Clarified statement Replaced “ the main steam depressurization valves (MSDVs)” with “the main steam relief valves (MSRVs)”.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B3.7.14-2	APPLICABLE SAFETY ANALYSES, 3rd paragraph, 5th line	Editorial: Clarified statement Replaced “MSDVs “ with “ MSRVs ”.
B3.8.1-5	A.2.1 and A.2.2, second paragraph	Editorial: Correct typographical error Changed “Required Action A.3.2 “ to “Required Action A.2.2”
B3.8.1-8	C.1 and C.2, last paragraph	Editorial: Correct typographical error Changed “Required Action C.2.2 “ to “Required Action C.2”
B3.8.1-9	D.1, D.2 and D.3	Editorial: Correct typographical error Changed “D.1 and D.2 “ to “D.1, D.2 and D.3”
B3.8.1-10	F1, and F2 first paragraph	Editorial : Change to appropriate description Changed “The 12 hour Completion Time provides ...” to “The 12 hour Completion Time for Required Action F.1 provides ...”.
B3.8.1-13	SR 3.8.1.5	Editorial : Change to appropriate description Changed “Removal of water from the fuel oil day tanks once every 31 days eliminates ...” to “Removal of water from the fuel oil day tanks eliminates ...”
B3.8.1-13	SR 3.8.1.5	Editorial : Change to appropriate description Changed “The Surveillance Frequencies are established...” to “The Surveillance Frequency of 31 days is established...”
B3.8.1-21	SR 3.8.1.12 d.	Editorial: Correct typographical error Deleted a bracket.
B3.8.1-22	SR 3.8.1.13	Editorial : Change to appropriate description Changed “... requires demonstration once per 24 months that the Class 1E GTGs...” to “...requires demonstration that the Class 1E...”
B3.8.1-25	SR 3.8.1.16.	Editorial: Change to latest version Changed “paragraph 6.2.6(2)” to “paragraph 5.2.4.6(b)”.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B3.8.1-29	REFERENCE 3	Editorial: Change to latest version Changed "Regulatory Guide 1.9, Rev.3." to "Regulatory Guide 1.9, Rev.4, March 2007."
B3.8.1-29	REFERENCE 11	Editorial: Change to latest version Changed "IEEE Standard 308-1978" to "IEEE 308-2001".
B3.8.2-2	subtitle	Editorial: Correct typographical error Changed "BACKGROUND (continued)" to "APPLICABLE SAFETY ANALYSES (continued)"
B3.8.3-2	LCO	Editorial: Correct typographical error Changed "GT/G" to "GTG".
B3.8.3-7	SR 3.8.3.5	Editorial : Change to appropriate description Changed "Removal of water from the fuel storage tanks once every 31 days eliminates ..." to "Removal of water from the fuel storage tanks eliminates ...".
B3.8.3-7	SR 3.8.3.5	Editorial : Change to appropriate description Changed "The Surveillance Frequencies are established..." to "The Surveillance Frequencies of 31 days are established...".
B3.8.3-8	REFERENCE 2	Editorial: Change to appropriate description Changed "Regulatory Guide 1.137." to "Regulatory Guide 1.137, Rev.1, October 1979."
B3.8.4-2	BACKGROUND third paragraph	Editorial: Correct typographical error Changed "The nominal float voltage of 2.17 Vpc corresponds to a total float voltage output of 133.2 V for a 60 cell battery as discussed in Chapter 8 (Ref.4)." to "The nominal float voltage of 2.07 Vpc corresponds to a total float voltage output of 124.2 V for a 60 cell battery."
B3.8.4-9	REFERENCE 2	Editorial: Change to appropriate description Changed "Regulatory Guide 1.6, March 10, 1971." to "Regulatory Guide 1.6, Rev.0, March 1971."
B3.8.4-9	REFERENCE 3	Editorial: Change to latest version Changed "IEEE-308-1978." to "IEEE-308-2001."
B3.8.4-9	REFERENCE 7	Editorial: Change to appropriate description Changed "Regulatory Guide 1.93, December 1974." to "Regulatory Guide 1.93, Rev.0, December 1974."

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B3.8.4-9	REFERENCE 8	Editorial: Change to latest version Changed "IEEE-450-1995." to "IEEE-450-2002."
B3.8.4-9	REFERENCE 9	Editorial: Change to latest version Changed "Regulatory Guide 1.32, February 1977." to "Regulatory Guide 1.32, Rev.3, March 2004".
B3.8.4-9	REFERENCE 10	Editorial: Change to latest version Changed "Regulatory Guide 1.129, December 1974." to "Regulatory Guide 1.129, Rev.2, February 2007."
B3.8.5-2	subtitle	Editorial: Correct typographical error Changed "BACKGROUND (continued)" to "APPLICABLE SAFETY ANALYSES (continued)"
B3.8.5-4	ACTION, last paragraph	Editorial : Change to appropriate description Changed "Required ActionA.3.1" to "Required ActionA.3."
B3.8.5-4	ACTION, last paragraph	Editorial: Delete unnecessary description Delete "Required Action A.3.2 allows the option to apply the requirement of Specification 5.5.18 to determine a Risk Informed Completion Time (RICT)."
B3.8.6-1	BACKGROUND first paragraph	Editorial: Change to appropriate description Changed "IEEE Standard 450-1995, "IEEE Recommended Practice For Maintenance, Testing, And Replacement Of Vented Lead-Acid Batteries For Stationary Applications" (Ref. 1)" to "IEEE-450(Ref. 1)".
B3.8.6-1	BACKGROUND second paragraph	Editorial: Correct typographical error Changed "The nominal float voltage of 2.17 Vpc corresponds to a total float voltage output of 133.2 V for a 60 cell battery as discussed in Chapter 8 (Ref.2)." to "The nominal float voltage of 2.07 Vpc corresponds to a total float voltage output of 124.2 V for a 60 cell battery."
B3.8.6-4	ACTIONS C1, C2, and C3	Editorial: Change to appropriate description Changed "IEEE Standard 450-1995" to "IEEE 450".
B3.8.6-9	REFERENCE 1	Editorial: Change to latest version Changed "IEEE-450-1995." to "IEEE-450-2002."
B3.8.6-9	REFERENCE 5	Editorial: Change to latest version Changed "IEEE-485-1983, June 1983." to "IEEE-485-1997."

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B3.8.9-3	ACTION	Editorial: Correct typographical error Changed "A.1" to "A.1 and A.2"
B3.8.9-7	REFERENCE 3	Editorial: Change to appropriate description Changed "Regulatory Guide 1.93, December 1974." to "Regulatory Guide 1.93, Rev.0, December 1974.
B3.9.3-1 through B3.9.3-3	BACK GROUND, APPLICABLE SAFETY ANALYSES, LCO and APPLICABILITY	Editorial: Description change as Standard Tech-Spec Description of Nuclear Instrumentation for Bases will be changed according to change of LCO3.9.3. This Change is based on being consistent with NUREG-1431, Standard Technical Specifications.
B3.9.3-3	ACTIONS A1 and A2, and C	Editorial: Description change as Standard Tech-Spec Changes association with change of LCO 3.9.3.
B3.9.4-1	BACKGROUND	Editorial: Description change as Standard Tech-Spec Replaced "During movement of irradiated fuel assemblies within containment" with "If closed".
B3.9.4-1	BACKGROUND	Editorial: Description change as Standard Tech-Spec Added the sentence " Alternatively, the equipment hatch can be open provided it can be installed with a minimum of four bolts holding it in place.".
B3.9.4-1	BACKGROUND	Editorial: Description change as Standard Tech-Spec Replaced "containment closure is required; therefore, the door interlock mechanism may remain disabled, but one air lock door must always remain closed." with " the containment air locks must be capable of being closed.".
B3.9.4-3	APPLICABLE SAFETY ANALYSES	Editorial: Change to appropriate description Replaced "with a minimum decay of 100 hours" with "with a minimum decay of 24 hours".
B3.9.4-3 through B3.9.4-4	LCO	Editorial: Description change as Standard Tech-Spec Added the explanation about Administrative controls for the equipment hatch and air locks.
B3.9.4-5	SR 3.9.4.2	Editorial: Description change as Standard Tech-Spec Added the explanation about SR3.9.4.2.

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
B3.9.4-6	SR 3.9.4.3	Editorial: Change to appropriate description Replaced “SR 3.9.4.2” with “SR 3.9.4.3”.
B 3.9.5-2	B 3.9.5, LCO 3 rd paragraph	Editorial: Change to appropriate description A bracket after “LCO 3.9.1” was deleted.
B 3.9.5-3	B 3.9.5, ACTION A4, A5, A6.1 and A6.2	Editorial: Change to appropriate description Brackets both side of “four” were deleted.
B 3.9.6-3	B 3.9.6, ACTION A4, A5, A6.1 and A6.2	Editorial: Change to appropriate description Brackets both side of “four” were deleted.
B 3.9.6-4	B 3.9.6, SR 3.9.6.2	Editorial: Change to appropriate description Inserted “ <u>SR 3.9.6.2</u> ”
B 3.9.7-1	APPLICABLE SAFETY ANALYSES First paragraph	Editorial: Clarified statement Deleted “(Regulatory Position C.1.c of Ref. 1)”.
B 3.9.7-1	APPLICABLE SAFETY ANALYSES First paragraph	Editorial: Clarified statement Replaced “Regulatory Position C.1.g” with “Appendix B2”.
B 3.9.7-1	APPLICABLE SAFETY ANALYSES First paragraph	Editorial: Clarified the numerical value accordance with Appendix B2 of Regulatory Guide 1.183. Replaced “99%” with “99.5%”.
B 3.9.7-1	APPLICABLE SAFETY ANALYSES First paragraph	Editorial: Clarified statement Deleted “The fuel pellet to cladding gap is assumed to contain 10% of the total fuel rod iodine inventory (Ref. 1)”.
B 3.9.7-1	APPLICABLE SAFETY ANALYSES Second paragraph	Editorial: Correction of the referred number Replaced “Refs.4 and 5” with “Ref.3”.
B 3.9.7-2	REFERENCES	Editorial: Clarified statement Added “10CFR 50.34” as the third reference.
16.2 Combined License Information		

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
General	-	<p>Editorial: To distinguish the section number of Technical Specifications from that of DCD in COL information.</p> <p>Changed the style of COL information number from COL 16.x.x.x(n) to COL 16.1_x.x.x(n). (x.x.x is a section number of Technical Specifications.)</p>
16.2-1	COL 16.1(1)	<p>Editorial: To clarify that the adoption of RMTS is a choice of COL applicant.</p> <p>Adoption of RMTS was defined as COL applicant item.</p>
16.2-1	COL 16.1(2)	<p>Technical: Incorporation of customer's preference</p> <p>Adoption of SFCP was added as COL applicant item.</p>
16.2-1	-	<p>Technical: Incorporation of Risk-informed Tech. Specs. Initiative 7a.</p> <p>Deleted COL 16.3.0.8(1).</p>
16.2-1	COL 16.1_3.3.1(1)	<p>Technical: To be defined as COL holder item.</p> <p>The determination of the trip setpoints and allowable values in Table 3.3.1-1 was defined as COL holder item. They are to be confirmed after completion of a plant specific setpoint study following selection of the plant specific instrumentation.</p>
16.2-1	COL 16.1_3.3.2(1)	<p>Technical: To be defined as COL holder item.</p> <p>The determination of the trip setpoints and allowable values in Table 3.3.2-1 was defined as COL holder item. They are to be confirmed after completion of a plant specific setpoint study following selection of the plant specific instrumentation.</p> <p>The determination of the time delay value in Table 3.3.2-1 was defined as COL applicant item.</p>
16.2-1	COL 16.1_3.3.5(1)	<p>Technical: To be defined as COL holder item.</p> <p>The determination of the trip setpoints and time delay values in SR 3.3.5.3 was defined as COL holder item. They are to be confirmed after completion of a plant specific setpoint study following selection of the plant specific instrumentation.</p> <p>The determination of the time delay values in SR 3.3.5.3 was defined as COL applicant item.</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
16.2-1	COL 16.1_3.3.6(1)	<p>Technical: To be defined as COL holder item.</p> <p>The determination of the trip setpoints and allowable values in Table 3.3.6-1 was defined as COL holder item. They are to be confirmed after completion of a plant specific setpoint study following selection of the plant specific instrumentation.</p>
16.2-1	COL 16.1_3.4.17(1)	<p>Technical: To be defined as COL applicant item.</p> <p>The provision of the site specific information for tube repair in LCO 3.4.17 was defined as COL applicant item.</p>
16.2-1	COL 16.1_3.7.10(1)	<p>Technical: To be defined as COL applicant item.</p> <p>The confirmation of LCO 3.7.10 and associated Bases for hazardous chemical was defined as COL applicant item. They are to be confirmed by the evaluation with site-specific condition.</p>
16.2-1	COL 16.1_3.8.4(1)	<p>Technical: To be defined as COL applicant item.</p> <p>The confirmation of the battery float current values in required action A.2 in LCO 3.8.4 was defined as COL applicant item. It is to be confirmed after selection of the plant batteries.</p>
16.2-1	COL 16.1_3.8.5(1)	<p>Technical: To be defined as COL applicant item.</p> <p>The confirmation of the battery float current values in required action A.2 in LCO 3.8.5 was defined as COL applicant item. It is to be confirmed after selection of the plant batteries.</p>
16.2-1	COL 16.1_3.8.6(1)	<p>Technical: To be defined as COL applicant item.</p> <p>The confirmation of the battery float current values in condition B, required action B.2, and SR 3.8.6.1 in LCO 3.8.6 was defined as COL applicant item. They are to be confirmed after selection of the plant batteries.</p>
16.2-1	COL 16.1_4.1(1)	<p>Editorial: Correct typographical error</p> <p>Added a missing word "provided"</p>
16.2-2	COL 16.1_5.1.2(1)	<p>Technical: To be defined as COL applicant item.</p> <p>The provision of the site specific information about the titles for members of the unit staff was defined as COL applicant item.</p>

US-APWR DCD Chapter 16 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
16.2-2	COL 16.1_5.2.2(1)	Editorial: Change to appropriate description Replaced "The titles for member of the unit stuff" with "The titles and number for member of the unit stuff".
16.2-2	COL 16.1_5.5.9(1)	Technical: To be defined as COL applicant item. The provision of the site specific information for tube repair in 5.5.9 Steam Generator Program was defined as COL applicant item.
16.2-2	-	Editorial: To reflect NRC comments obtained at DCWG meeting on July 1 st . Deleted COL 16.5.5.18(1).
16.2-2	COL 16.1_5.5.20(1)	Technical: To be defined as COL applicant item. The confirmation of the Control Room Envelope Habitability Program for hazardous chemical in 5.5.20 was defined as COL applicant item. They are to be confirmed by the evaluation with site-specific condition.
16.2-2	COL 16.1_5.5.20(1)	Editorial: Change to appropriate description Deleted underline on "Control Room Envelope Habitability Program".
16.2-2	COL 16.1_5.6.1(1)	Technical: To be defined as COL applicant item. The provision of the additional information for submittal of report in case of multiple unit site in 5.6.1 Annual Radiological Environmental Operating Report was defined as COL applicant item.
16.2-2	COL 16.1_5.6.2(1)	Technical: To be defined as COL applicant item. The provision of the additional information for submittal of report in case of multiple unit site in 5.6.2 Radioactive Effluent Release Report was defined as COL applicant item.
16.2-2	COL 16.1_5.6.7(1)	Technical: To be defined as COL applicant item. The provision of the site specific information for tube repair in 5.6.7 Steam Generator Tube Inspection Report was defined as COL applicant item.
16.2-2	COL 16.1_5.7(1)	Technical: To be defined as COL applicant item. The provision of the site specific information about 5.7 High Radiation Area was defined as COL applicant item.

US-APWR DCD Chapter 17 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
General 1	-	To clarify the activities in DC and COL more clearly, the descriptions were changed. Also the title of Section 17.1 was changed.
General 2	-	For the better explanation of the QA activities, descriptions were changed and the sections included were changed. Also the titles of Section 17.3 and 17.5 were changed.
General 3	-	Too detail explanations on QAPD were simplified or deleted in Section 17.5.
17-iv - vi	ACRONYMS AND ABBREVIATIONS	<p>Added the following abbreviations:</p> <p>AAC</p> <p>CAP</p> <p>CS</p> <p>CSS</p> <p>CVCS</p> <p>EFW</p> <p>EFWS</p> <p>EJ</p> <p>EPS</p> <p>ESW</p> <p>FIRE</p> <p>FLOOD</p>

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		FSS LPSD M/D MCC MOV MSS RHRS RPS RTNSS RWAT RWSS SFP SFPCS T/D VWS WMS Editorial: Correct missing abbreviations.
17.1-1	17.0 original two paragraphs	The original two paragraphs were moved to 17.3 with some modification. Editorial: To ensure the appropriateness of the location. Refer to General 2.
17.1-1	17.0 section	Newly added the sentence "The Quality Assurance Program as described in Sections 17.1, 17.2, 17.3 and

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		<p>17.5 of this chapter of DCD is applicable for Quality Assurance (QA) during the Design Certification phase for US-APWR standard plant design activities.”</p> <p>Editorial: To clarify the Quality Assurance activities during the Design Certification phase. Refer to General 1.</p>
17.1-1	17.1 title	<p>Replaced “Quality Assurance During the Design Certification Phase” with “Quality Assurance During the Design Phase “ in section title.</p> <p>Editorial: Consideration for description of COLA. Refer to General 1.</p>
17.1-1	17.1 first paragraph	<p>Replaced “during the design certification phase” with “during the Design Certification phase for US-APWR standard plant design activities “.</p> <p>Editorial: To correct the use of capital and to clarify the Quality Assurance activities during the Design Certification phase. Refer to General 1.</p>
17.1-1	17.1 second paragraph	<p>Added the sentence “The Combined License (COL) Applicant is responsible for the development of a Quality Assurance Program applicable to site-specific design activities”.</p> <p>Editorial: To clarify the responsibility of COL applicant. Refer to General 1.</p>
17.2-1	17.2 title	<p>Replaced “AssuraNce” with “Assurance” and replaced “Operations Phase” with “Operation Phases”.</p>

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		Editorial: Corrected the capital "N" to "n" and the use of plural form.
17.3-1	17.3 title	Replaced "Quality Assurance Program Description" with "Quality Assurance Program" in section title. Editorial: To ensure the appropriateness of the title name. Refer to General 2.
17.3-1	17.3 first two paragraphs	Added "The General Manager of Nuclear Energy Systems Headquarters (NESH) is responsible for the Design Certification Activities of US-APWR. The design activities performed by the Nuclear Energy Systems Engineering Center for the US-APWR standard plant design are subjected to the QA Program controls specified in "Quality Assurance Program (QAP) Description For Design Certification of the US-APWR (PQD-HD-19005 Rev.1)" (Ref 17.5.5-4). Subcontractors of the Nuclear Energy Systems Engineering Center performing design activities in support of the US-APWR are also required to follow QAPD (PQD-HD-19005 Rev.1)." at the top of this section. Note) These two paragraphs were moved from 17.0 with the following three modifications. Editorial: To ensure the appropriateness of the location. Refer to General 2.
17.3-1	17.3 first paragraph /	Replaced "NESH" with "Nuclear Energy Systems

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
	first sentence	Headquarters (NESH). Editorial: To correct the use of acronym.
17.3-1	17.3 first paragraph / original last two sentences	Replaced “The major design activities are performed by the Nuclear Energy Systems Engineering Center engineers. QA Program controls governing the activities are specified in QAPD (PQD-HD-19005 Rev.1).” with “The design activities performed by the Nuclear Energy Systems Engineering Center for the US-APWR standard plant design are subjected to the QA Program controls specified in “Quality Assurance Program (QAP) Description For Design Certification of the US-APWR (PQD-HD-19005 Rev.1)” (Ref 17.5.5-4).”. Editorial: For better explanation.
17.3-1	17.3 second paragraph	Deleted “(Ref 17.5.5-4).”. Editorial: To correct the use of “Ref”.
17.3-1	17.3 third paragraph	Replaced “For the quality assurance program description during the design certification phase, see Section 17.5.” with “For the Quality Assurance Program Description during the Design Certification phase for the US-APWR standard plant design, see Section 17.5.”. Editorial: To correct the use of capital and to clarify the Quality Assurance activities during the Design Certification phase. Refer to General 1.
17.3-1	17.3 the 4 th paragraph	Added “The COL applicant is responsible for the development of a Quality Assurance Program

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		Description applicable to site-specific design activities and for plant construction and operation phases.” at the end of this section. Editorial: To clarify the responsibility of COL applicant. Refer to General 1.
17.4-1	17.4 section title	Replaced “Design Reliability Assurance Program” with “Reliability Assurance Program “ Editorial: To correct section title.
17.4-1	17.4 first sentence	Replaced “design reliability assurance program (D-RAP)” with “reliability assurance program (RAP)” Editorial: To clarify scope of statement.
17.4-1	17.4.1 third sentence	Replaced as "Once the site-specific D-RAP is established and the risk-significant SSCs are identified, the procurement, fabrication, construction, and preoperational testing can be implemented in accordance with the COL holder’s D-RAP or other programs and would be verified using the inspections, test, analyses and acceptance criteria (ITAAC) process." Editorial: To correct tense.
17.4-1	17.4.2 after third sentence of third paragraph	Added "The goal of the RAP during this stage is to ensure that the reactor design meets the purposes above, through the design, procurement, fabrication, construction and preoperational testing activities and programs."

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		Editorial: To clarify the goal of the D-RAP Phase I.
17.4-1	17.4.2 last sentence of 8th paragraph	Deleted. Editorial: To remove superfluous sentence.
17.4-1	17.4.2 prior to the penultimate sentence of third paragraph	Added "The objective during this stage is to ensure that the reliability for the SSCs within the scope of the RAP is maintained during plant operations." Editorial: To clarify the objective of the D-RAP.
17.4-2	17.4.3 last paragraph	Replaced " expert panels" with "EPs". Editorial: To arrange expression with the abbreviation.
17.4-2	17.4.4 a. before first paragraph.	Added "The MHI is responsible for Phase I of the D-RAP." Editorial: To clarify the responsibility of MHI in Phase I of the D-RAP.
17.4-2	17.4.4 a. 2 nd sentence of 3 rd paragraph.	Replaced " Expert Panel" with "EP". Editorial: To arrange expression with the abbreviation.
17.4-3	17.4.4 b. 2 nd sentence of first paragraph.	Replaced " Expert Panel" with "EP". Editorial: To arrange expression with the abbreviation.
17.4-3	17.4.4 b. 2nd sentence of last paragraph.	Replaced "Design engineer" with "design engineer". Editorial: To correct inappropriate usage of capital letter.

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
17.4-3	17.4.4 d. 2 nd bullet line.	Replaced " Expert Panel" with "EP". Editorial: To arrange expression with the abbreviation.
17.4-4	17.4.7 Section title	Replaced as "D-RAP" Editorial: To correct section title.
17.4-4	17.4.7.1 3 rd sentence of first paragraph.	Replaced " Expert Panel" with "EP". Editorial: To arrange expression with the abbreviation.
17.4-5	17.4.7.2 last sentence	Replaced as "Each voting member of the RAP EP should have the level of education and experience defined by the RAP implementing procedure." Editorial: To clarify the expert panel qualification requirements and arrange expression with the abbreviation.
17.4-6/39	Table 17.4-1	Changed the followings. <ul style="list-style-type: none"> • Replaced "RWPS" to "RWSP". • Filled every "Insights and Assumptions" column. • Checked the equipment numbers and added [TBD] if the equipment number is not yet clarified. • Checked and corrected the singular and the plural forms of "valve" and "orifis". • Added sequential number for each SSC. • Deleted the duplicated SSCs. • Replaced "SSC" to "SSCs".

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		<ul style="list-style-type: none"> • Replaced "System, Structure or Component (SSC)" to "Systems, Structures and Components (SSCs)". <p>Editorial: To correct acronyms, check equipment numbers, and correct other grammatical errors.</p>
17.4-6/39	Table 17.4-1	<p>Added the following SSCs.</p> <p>Emergency feedwater system (EFWS)</p> <ul style="list-style-type: none"> • A~D-emergency feedwater line orifice [FE3716,3726,3736,3746] • A~D-emergency feedwater line tie-line valve [EFS-MOV-014A (B,C,D)] • EFW pit discharge line tie-line piping • A~D-emergency feedwater line A(B,C,D) piping • Secondary demineralizer water tank discharge line check valve [VLV-005] <p>High head safety injection system</p> <ul style="list-style-type: none"> • Safety injection pump outlet orifice 1A(B,C,D) [FE962(963,964,965)] • Minimum flow line orifice 3 C(D) [FE972(973,974,975)] • Containment isolation motor operated valve [MOV-011 A(B,C,D)] • RV injection line orifice (between VLV-012 A(B,C,D) and MOV-0011 A(B,C,D)) • Minimum flow line orifice (next to VLV-L023 A(B,C,D))

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		<ul style="list-style-type: none"> • Minimum flow line manual valve [VLV-024 A(B,C,D)] • Minimum flow line manual valve [VLV-023 A(B,C,D)] <p>Main steam supply system (MSS)</p> <ul style="list-style-type: none"> • Main steam line isolation check valve A [VLV-516A] <p>Pressurizer pressure control system part of emergency core cooling system (ECCS)</p> <ul style="list-style-type: none"> • A(B) -Safety depressurization valve [RCS-MOV-116 A(B)] <p>Containment spray / residual heat removal (CS/RHR)</p> <ul style="list-style-type: none"> • A~D-CS line check valve [VLV-005A(B,C,D)] <p>Technical: To reflect the re-evaluation results of PRA and the expert panel.</p>
17.4-6/39	Table 17.4-1	<p>Changed the following SSCs.</p> <p>Emergency power source (EPS)</p> <ul style="list-style-type: none"> • 120V bus train A-D • Gas turbine discharge circuit breakers • Gas turbines generator sequencers <p>High head safety injection system</p> <ul style="list-style-type: none"> • Containment isolation motor operated valves [MOV-009A (B,C,D)] • Containment isolation motor operated valves [MOV-001A (B,C,D)] <p>Heating, ventilation, and air conditioning system (HVAC)</p>

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		<ul style="list-style-type: none"> • B,C -Emergency feedwater pump room fans [VRS-RFN-401B,C] Instrumentation and control system (I&C) <ul style="list-style-type: none"> • CCW start signals Main steam supply system (MSS) <ul style="list-style-type: none"> • A~D-Main steam isolation valve [NMS-AOV-515A (B,C,D)] Pressurizer pressure control system part of emergency core cooling system (ECCS) <ul style="list-style-type: none"> • A(B)--Safety depressurization valve [RCS-MOV-117A(B)] Containment spray / residual heat removal (CS/RHR) <ul style="list-style-type: none"> • A~D-Containment spray/residual heat removal pump [RHS-RPP-001A (B,C,D)] • CS line containment isolation motor operated valves [MOV-004A (B,C,D)] Technical: To reflect the progress of the design.
17.5-1	17.5 title	Replaced "Quality Assurance Program Guidance" with "Quality Assurance Program Description" in section title. Editorial: To ensure the appropriateness of the title name. Refer to General 2.
17.5-1	17.5 first paragraph	Replaced "The MHI-NESH US-APWR Project Quality Assurance Program (QAP) is the top-level policy document that establishes the quality assurance policy and assigns major functional responsibilities for plants designed by MHI-NESH. The QAP describes the

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		<p>methods and establishes QAP and administrative control requirements that meet 10 CFR Part 50, Appendix B and 10 CFR Part 52. The QAP is based on the requirements of ASME NQA-1-1994, "Quality Assurance Requirements for Nuclear Facility Applications," Parts I and II, as specified in Ref.17.5.5-4." with "During the Design Certification phase for US-APWR standard plant design, the MHI-NESH US-APWR Project Quality Assurance Program (QAP) is the top-level policy that establishes the quality assurance policy and assigns major functional responsibilities. The QAP provides for the methods and establishes the QAP and administrative control requirements described in "Quality Assurance Program (QAP) Description For Design Certification of the US-APWR (PQD-HD-19005 Rev.1)" (MHI QAPD)(Ref 17.5.5-4), that meet 10 CFR Part 50, Appendix B and 10 CFR Part 52. The MHI QAPD is based on the requirements of ASME NQA-1-1994, "Quality Assurance Requirements for Nuclear Facility Applications," Parts I and II, as specified in Ref.17.5.5-4.".</p> <p>Editorial: To clarify the Design Certification phase and for better explanation. Refer to General 1.</p>
17.5-1	17.5 original second paragraph	<p>The original second paragraph was deleted.</p> <p>Editorial: Too detailed explanations on QAPD. Refer to General 3.</p>

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
17.5-1	The original 17.5.1	<p>The contents or description in the original subsection 17.5.1 were moved to the new section 17.5.</p> <p>Editorial: To ensure the appropriateness of the location and consideration for description of COLA. Refer to General 2.</p>
17.5-1	The original 17.5.2	<p>The original subsection 17.5.2 was deleted, because the detailed activities were described in “Quality Assurance Program (QAP) Description For Design Certification of the US-APWR (PQD-HD-19005 Rev.1)” which was already mentioned in 17.5.</p> <p>Editorial: To ensure the appropriateness of the location and consideration for description of COLA. Refer to General 3.</p>
17.5-4 (original)	The original 17.5.3	<p>The original subsection 17.5.3 was deleted and the result of “Evaluation of the QAPD Against the SRP and QAPD Submittal Guidance” was moved to 17.5. with editorial modifications.</p> <p>Editorial: To ensure the appropriateness of the location and consideration for description of COLA. Refer to General 3.</p>
17.5-1	17.5 second paragraph	<p>Added “The MHI QAPD for the Design Certification Phase has been prepared on the basis of the NRC approved QAP template (NEI, 06-14A Rev.4 and earlier revisions) (Ref 17.5.5-3) prepared by the Nuclear Energy Institute and has been evaluated against the SRP. The</p>

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		<p>MHI QAPD provides the controls that implement the QAP. MHI performed a comparison of the MHI QAPD against the SRP (Mar. 2007) (Ref 17.5.5-2) and the draft SRP (Sept. 2006) (Ref 17.5.5-1) which was used as a reference for the MHI QAPD and determined that the MHI QAPD is satisfactory.” at the second paragraph as the result of “Evaluation of the QAPD Against the SRP and QAPD Submittal Guidance”.</p> <p>Note) This paragraph was moved from the original 17.5.3 with following modification.</p> <p>Editorial: To ensure the appropriateness of the location and consideration for description of COLA. Refer to General 3.</p>
17.5-1	17.5 second paragraph	<p>Replaced “The QAPD for the Design Certification Phase has been prepared on the basis of the NRC approved QAP template (NEI, 06-14A Rev.4 and earlier revisions) (Ref 17.5.5-3) prepared by the Nuclear Energy Institute and has been evaluated against the SRP. The MHI-NESH QAP description for the US-APWR (PQD-HD-19005 Rev.1) provides the QAP controls implemented. MHI performed the comparison of SRP (Mar. 2007) (Ref 17.5.5-2) and draft SRP (Sept. 2006) (Ref 17.5.5-1) which was used as a reference for the QAPD (PQD-HD-19005 Rev.1) and determined that there is no impact to the QAPD (PQD-HD-19005 Rev.1) (Ref. 17.5.5-4).</p>

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
		<p>The COL applicant is also responsible to perform an evaluation of the QAPD against the SRP.” with “The MHI QAPD for the Design Certification Phase has been prepared on the basis of the NRC approved QAP template (NEI, 06-14A Rev.4 and earlier revisions) (Ref 17.5.5-3) prepared by the Nuclear Energy Institute and has been evaluated against the SRP. The MHI QAPD provides the controls that implement the QAP. MHI performed a comparison of the MHI QAPD against the SRP (Mar. 2007) (Ref 17.5.5-2) and the draft SRP (Sept. 2006) (Ref 17.5.5-1) which was used as a reference for the MHI QAPD and determined that the MHI QAPD is satisfactory.”.</p> <p>Editorial: For better explanation.</p>
17.5-1	17.5 last paragraph	<p>Added “The COL applicant is responsible for the development of a Quality Assurance Program Description for site-specific design activities and for plant construction and operation.” just above subsection 17.5.1.</p> <p>Editorial: To clarify the responsibility of COL applicant. Refer to General 1.</p>
17.5.1	17.5.1, 17.5.2	<p>Original subsection 17.5.4 and 17.5.5 were renumbered in accordance with the delete of subsections.</p> <p>Editorial: Renumber. Refer to General 3.</p>

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
17.5-1	17.5.1 COL 17.5(1)	Replaced “The COL applicant shall develop and implement the Construction and Operational QAP that also covers the activities described in Section 17.5.” with “The COL applicant shall develop and implement a Quality Assurance Program Description for site-specific design activities and for plant construction and operation.” Editorial: To correct the scope. Refer to General 1.
17.6-1	17.6.1	Added “17.6.1 Combined License Information” Editorial: To ensure the consistency with the description of 17.6.

US-APWR DCD Chapter 18 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
18.1-1	18.1.1 last paragraph	<p>Editorial</p> <p>The following sentence is inserted after the sentence;</p> <p>“This section documents the execution of the HFE process for each topic.”</p> <p>“The US-APWR HFE program is accomplished through the activities implemented by the US-APWR HFE team addressed in Section 18.1. The site specific HFE team follows the US-APWR HFE processes and procedures, Section 18.1.3, for HFE activities assigned to them during the US-APWR design program. The site specific HFE team is responsible for establishing site specific HFE processes and procedures that maintains the certified US-APWR HFE design in the site-specific as-built plant. The site specific HFE processes and procedures will be used for HSI design changes after the certified US-APWR design responsibility is officially turned over to the site specific HFE Team.”</p>
18.1-3	18.1.1.2 last paragraph	<p>Editorial</p> <p>The following sentences are inserted before the paragraph;</p> <p>“Overall HFE issues associated with the central alarm station (CAS) and the secondary alarm station (SAS) are discussed in Section 13.6, Physical Security. The HSI Detailed Design and Integration process encompasses the HSI design aspects of the CAS and SAS.</p>

US-APWR DCD Chapter 18 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
18.1-3	18.1.1.2 last paragraph	<p>Editorial</p> <p>The following sentence and paragraphs are inserted to after the sentence;</p> <p>“The COL Applicant is to specify the communication system requirements...”</p> <p>“The HSI displays at the EOF include following:</p> <ul style="list-style-type: none"> • SPDS • Meteorological displays • Off-site radiation monitoring • Post accident monitoring <p>The content of the displays for the EOF is developed based on the task analysis process described in Section 18.4.”</p>
18.1-14	18.1.6 last paragraph	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence ;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section. ”</p>
18.2-5	18.2.5	<p>Editorial</p> <p>The following reference document is added;</p> <p>“18.2-3 <u>U.S. Operator V&V Technical Report (Phase 1 V&V)</u>, MUAP-08XXX-P (Proprietary) and MUAP-08XXX-NP (Non-Proprietary), later.”</p>
18.3-2	18.3.2.1 seventh row of first paragraph	<p>Editorial</p> <p>The word “that” is inserted between “criteria” and “Mitsubishi Heavy Industries, LTD.”.</p>
18.3-5	18.3.4 last paragraph	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence ;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section. ”</p>

US-APWR DCD Chapter 18 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
18.3-5	18.3.5	<p>Editorial</p> <p>The following reference document is added;</p> <p>“18.3-4 <u>HSI Design Technical Report</u>, MUAP-08XXX-P (Proprietary) and MUAP-08XXX-NP (Non-Proprietary), later.”</p>
18.4-4	18.4.4 last paragraph	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section. ”</p>
18.4-4	18.4.5	<p>Editorial</p> <p>The following reference document is added;</p> <p>“18.4-4 <u>HSI Design Technical Report</u>, MUAP-08XXX-P (Proprietary) and MUAP-08XXX-NP (Non-Proprietary), later.”</p>
18.5-2	18.5.2 third paragraph	<p>Editorial</p> <p>“Engineering support personnel” is added after “Chemistry technicians ^(Note1)”.</p>
18.5-4	18.5.4 last paragraph	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section. ”</p>
18.6-2	18.6.4 last sentence	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section. ”</p>
18.6-2	18.6.5	<p>Editorial</p> <p>The following reference document is added;</p> <p>“18.6-3 <u>HSI Design Technical Report</u>, MUAP-08XXX-P (Proprietary) and MUAP-08XXX-NP (Non-Proprietary), later.”</p>

US-APWR DCD Chapter 18 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
18.7-10	18.7.4 last paragraph	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section.”</p>
18.7-10	18.7.5	<p>Editorial</p> <p>The following reference document is added;</p> <p>“18.7-5 <u>HSI Design Technical Report</u>, MUAP-08XXX-P (Proprietary) and MUAP-08XXX-NP (Non-Proprietary), later.”</p>
18.8-1	18.8.1 first paragraph	<p>Editorial</p> <p>The third sentence is replaced from;</p> <p>“The operating and EOP development program addressed in this section is primarily that necessary to support HSI Design engineering (Section 18.7) and subsequent integrated human factors V&V (Section 18.10).“</p> <p>to;</p> <p>“The scope of the procedures program for the US-APWR is described in Chapter 13 (Section 13.5). Procedures for safety-related operations and maintenance activities are developed in accordance with the HFE program described in this section.”</p>
18.8-2	18.8.2 first paragraph	<p>Editorial</p> <p>The first sentence is replaced from;</p> <p>“The US-APWR Procedures program includes the development of CBP with corresponding paper procedures and stand-alone paper procedures.”</p> <p>to;</p> <p>“The US-APWR Procedures program includes the development of computer based procedures with corresponding backup paper procedures, and stand-alone paper procedures for which there are no computer based procedures (e.g., maintenance procedures).”</p>

US-APWR DCD Chapter 18 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
18.8-4	18.8.4 first paragraph	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section.”</p>
18.9-3	18.9.2.1 third paragraph	<p>Editorial</p> <p>“Engineering support personnel” is added after “Chemistry technicians”.</p>
18.9-3	18.9.2.1 last paragraph	<p>Editorial</p> <p>“the MHI US-APWR HSI development and V&V operating” is replaced to “ the plant operations and maintenance”</p>
18.9-5	18.9.4 last sentence	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section.”</p>
18.10-4	18.10.2.3 fourth paragraph	<p>Editorial</p> <p>Insert the following text at the end of the paragraph that begins: “Plant personnel performing operational”</p> <p>“Deviations from the requirements of Reference 18.10-4 that are judged to be acceptable for the purposes of HSI validation, as compared to operator training, are documented and justified in the HSI V&V procedure.”</p>
18.10-5	18.10.4 last paragraph	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section.”</p>
18.11-2	18.11.4 last paragraph	<p>Editorial</p> <p>Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence;</p> <p>“No additional information is required to be provided by a COL Applicant in connection to this section.”</p>

US-APWR DCD Chapter 18 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
18.12-1	18.12.1 last paragraph	<p>Editorial</p> <p>The following sentence is replaced from;</p> <p>“Human performance monitoring applies after the plant is in operation, and is a COL applicant responsibility.”</p> <p>to;</p> <p>“Human performance monitoring applies after the plant is in operation. Human performance monitoring within the scope of this program specifically applies to the following:</p> <ul style="list-style-type: none"> • Time critical operator actions • Correct diagnosis of abnormal plant events • Accuracy of procedure execution <p>Monitoring of human performance in other areas is within the scope of other plant programs (such as, “Fitness for Duty”).”</p>
18.12-1	18.12.2 first paragraph	<p>Editorial</p> <p>The following sentence is inserted to after the first sentence;</p> <p>“The US-APWR HFE procedure guides the human performance monitoring for the life of the plant and the process to identify and disposition human performance issues. This human performance monitoring procedure is applicable after the completion of integrated HSI validation and operator training.”</p>
18.12-2	18.12.3 last paragraph	<p>Editorial</p> <p>The following sentences are replaced from;</p> <p>”Human Performance issues are identified as HEDs and are tracked and dispositioned. Any HEDs identified through operational experience of the standard Japanese 4-loop PWR and the Japanese APWR are factored into the US-APWR design.”</p> <p>to;</p> <p>“Human performance issues are identified as HEDs and are tracked and dispositioned in accordance with the site specific QA program.”</p>

US-APWR DCD Chapter 18 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/Item, table with column/row, or figure)	Description of Change
18.12-2	18.12.4 last paragraph	Editorial Due to duplication on DCD Teir1 ITAAC list, the COL item list is replaced with the following sentence; “No additional information is required to be provided by a COL Applicant in connection to this section.”

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19-i to 19-iii	Content list Page numbers of Subsection 19.1.5.3 to 19.1.9. Subsection titles of subsection 19.3.1 to 19.3.3.	Revise the page numbers in the content list. Editorial: Modify the page numbers.
19-iv to 19-viii	Table list Table titles of Table 19.1-97 to 19.1-114 Table numbers of Table 19.1-97 to 19.1-115 Page numbers of Table 19.1-1 to 19.1-115	Revise the table titles, table numbers and page numbers in the table list. Editorial: Modify the table titles, table numbers and page numbers.
19-ix	Figure list Page numbers all over the figure list	Revise the page numbers in the figure list. Editorial: Modify the page numbers.
19.0-1	Section 19.0, At the end of the first sentence	Delete the phrase: “to support the application for the design certification of the US-APWR plant”. Editorial: Delete the unnecessary phrase.
19.0-5	Subsection 19.0.1, Reference 19.0-18	Change: “MUAP-07030 Rev.0” to “MUAP -07030 Rev.1” Change: “December. 2007” to “September. 2008” Editorial: Update the version of reference document.
19.1-1	Section 19.1, Section title of “Probabilistic Risk Assessment (PRA)”	Delete the word: “(PRA)” from section title. Editorial: Delete the unnecessary word.
19.1-1	Section 19.1, 7 th paragraph of this section Last sentence of this paragraph	Delete the sentence: “However, these events are site-specific and are not specifically assessed at the design certification stage.” Editorial: Delete the inadequate phrase.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-2	Subsection 19.1.1.1 3 rd paragraph of this subsection Last sentence of this paragraph	Change: "PRA insights are utilized to develop risk-managed technical specifications in accordance with Reference 19.1-11." to "PRA insights are utilized to develop risk-managed technical specifications (RMTS) and surveillance frequency control program (SFCP) in accordance with Reference 19.1-11 and 19.1-44, respectively." Editorial: State the process and procedure for the plant specific PRA development.
19.1.-3	Subsection 19.1.1.2.1 1 st paragraph of this subsection Second sentence of this paragraph	Change: "The PRA in the COLA phase will also be utilized to support implementation of 10 CFR 50.65 (Reference 19.1-12), the maintenance rule." to "The PRA in the COLA phase will also be utilized to support implementation of 10 CFR 50.65 (Reference 19.1-12), the maintenance rule, and the technical specification." Editorial: Add information about uses of PRA to support implementation of technical specification.
19.1-6	Subsection 19.1.2.4 After the 2nd paragraph.	Add the text: "During operation, PRA will be maintained and updated in accordance with approved station procedures on a periodic basis not to exceed two refueling cycles." Editorial: Clarify the PRA update process.
19.1-7,8	Subsection 19.1.3.1, 1 st bullet of this subsection 3 rd bullet of this subsection 4 th bullet of this subsection 9 th bullet of this subsection 10 th bullet of this subsection 12 th bullet of this subsection Last sentences of these bullets	Change: "Subsection 19.1.6.1.1" to "Subsection 19.1.6.1" Editorial: Correct a typographic error.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-8	Subsection 19.1.3.1, 7 th bullet of this section Title of this bullet	Change: "Subsection 5.4.11" to "Subsection 5.4.12". Editorial: Correct a typographic error.
19.1-12	Subsection 19.1.3.3, 1 st bullet of this section 2 nd bullet of this section Titles of these bullets	Change: "Subsection 6.2.2" to "Subsection 6.5.2". Editorial: Correct a typographic error.
19.1-59	Subsection 19.1.5, 2 nd paragraph of this subsection 1 st sentence of this paragraph	Change: "below" to "in the following subsection" Editorial: Make the expression suitable.
19.1-60	Subsection 19.1.5.1.1, 1 st paragraph of this subsection 2 nd sentence of this paragraph	Change: "As there is no site-specific seismic hazard information at the design certification phase such quantification to estimate CDF and LRF due to seismic events is not possible. Instead," to "The" Editorial: Delete the unnecessary phrase.
19.1-71	Subsection 19.1.5.2.1 Step 1 2 nd sentence	Change: "... the fundamental basis of the fire PRA." to "... the fundamental basis of fire PRA." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 2 1 st sentence	Change: "...between the internal events PRA model ..." to "...between internal events PRA model ..." Editorial: Remove superfluous words.
19.1-72	Subsection 19.1.5.2.1 Step 2 1 st sentence	Change: "... and the fire PRA" to "... and internal fire PRA" Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 2 2 nd sentence	Change: "... those components that will be included ..." to "... the components that should be included ..." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 2 3 rd sentence	Change: "... components unique to the fire PRA." to "... components unique to internal fire PRA" Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-72	Subsection 19.1.5.2.1 Step 3 1 st sentence	Change: "... the fire compartments of Step 1 are identified." to "... the fire compartments of defined in Step 1 are identified." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 4 1 st sentence	Change: "Those fire ..." to "Fire ..." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 4 2 nd sentence	Change: "... , those compartments may also be screened if certain conditions are satisfied." to "... , those compartments are also screened." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 5 1 st sentence	Change: "... that will be used for..." to "... that will be used in..." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 5 3 rd sentence	Change: "Additional initiating events may be identified that were considered unlikely due to internal events." to "Additional fire induced initiating events that are unlikely to occur by the internal events are identified." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 5 4 th sentence	Change: "Similarly, additional accident sequences may be identified that were not considered in the internal events PRA." to "Similarly, additional peculiarly fire accident sequences will also be identified." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 6 2 nd sentence	Change: "NUREG/CR 6850 provides a database of fire ignition frequencies for specific ignition sources." to "Database of fire ignition frequencies for specific ignition sources which is provided in NUREG/CR 6850 are used." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 7 2 nd sentence	Change: "This step may be repeated several times as new information is added to the analysis in the later steps. Initially, in this step it is assumed that any fire within a fire compartment would fail the equipment and cables within the compartment." to "Initially, in this step it is assumed that the fire postulated in the fire compartment would fail the equipment and cables within the compartment." Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-72	Subsection 19.1.5.2.1 Step 7 3 rd sentence	Change: "This assumption is later relaxed and the quantitative screening is repeated for fire scenarios defined in more detail." to "This assumption will be later relaxed if necessary and the quantitative screening is repeated for fire scenarios defined in more detail." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 8 2 nd sentence	Change: "This step is skipped for the US-APWR fire analysis." to "This step has been skipped in the US-APWR fire PRA." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 9 1 st sentence	Change: "For risk-significant fire compartments, a more detailed circuit analysis than Step 3 analysis may eliminate some of the cables in the compartments." to "For risk-significant fire compartments, more detailed circuit analysis than Step 3 analysis eliminate some of the cables in the compartments." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 9 2 nd sentence	Change: "... in the dominant plant response sequences of the quantitative screening steps." to "... in the dominant plant response sequences of quantitative screening steps." Editorial: Remove superfluous words.
19.1-72	Subsection 19.1.5.2.1 Step 10 Title	Change: "Circuit failure mode likelihood Analysis" to "Circuit failure mode likelihood analysis" Editorial: Correct style format
19.1-72	Subsection 19.1.5.2.1 Step 10 1 st sentence	Change: "The failure mode probabilities are estimated in this step for the cables of risk-significant components." to "The failure mode probabilities are estimated for the cables of risk-significant components." Editorial: Remove superfluous words.
19.1-72	Subsection 19.1.5.2.1 Step 10 2 nd sentence	Change: "The methodology provided in NUREG/CR 6850 is based on knowledge gained from recent cable fire tests." to "The methodology provided in NUREG/CR 6850, which is based on knowledge gained from recent cable fire tests, is used." Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-72	Subsection 19.1.5.2.1 Step 11 1 st and 2 nd sentence	Change: "This step provides guidance on how to conduct detailed fire scenario analysis. The discussions address initial fire characteristics, fire growth in a fire compartment, detection and suppression, damage from heat and smoke and many other relevant topics." to "In this step initial fire characteristics, fire growth in a fire compartment, detection and suppression, damage from heat and smoke and many other relevant topics are addressed." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 11 After the 3 rd sentence	Delete: "Special consideration is given to turbine generator fires, hydrogen fires, high-energy arcing faults, cable fires, and main control board fires." Editorial: Make the expression suitable.
19.1-72	Subsection 19.1.5.2.1 Step 11 Title of (1)	Change: "detailed fire modeling of single fire compartments;" to "Detailed fire modeling of single fire compartments;" Editorial: Correct style format
19.1-73	Subsection 19.1.5.2.1 Step 11 After the title of (1)	Add the sentences: "In this analysis, fire scenarios are defined in terms of ignition sources, target sets, fire growth, and propagation pattern and fire detection and suppression features. All fire PRA equipment and cables in the fire compartment in which fire origin are postulated will be assumed to be adversely impacted by the fire." Editorial: Make the expression suitable.
19.1-73	Subsection 19.1.5.2.1 Step 11 After the title of (2)	Add the sentences: "This analysis is focused on the fire frequency and the human error the operation Remote Shutdown Console in the situation for MCR evacuation due to the fire adverse effects." Editorial: Make the expression suitable.
19.1-73	Subsection 19.1.5.2.1 Step 11 Title of (3)	Change: "multi-compartment fire analysis. " to "Multi-compartment fire analysis" Editorial: Correct style format

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-73	Subsection 19.1.5.2.1 Step 11 After the title of (3)	Add the sentences: "This analysis uses the screening steps to reduce the scope of detailed analysis. The screening criteria includes lack of additional fire PRA equipment in the adjacent fire compartment , low fire load in fire origin compartment which influences the probability of fire propagation, small fire scenario frequency, and finally CDF. Survived scenarios will be analyzed by the same method as for single compartment case. " Editorial: Make the expression suitable.
19.1-73	Subsection 19.1.5.2.1 Step 12 2 nd sentence	Change: "This step description provides a structured approach for identification, inclusion, and quantification of operator action cases and their HEPs in the fire PRA." to "In this step identification, inclusion, and quantification of operator action cases are addressed and their HEPs are estimated." Editorial: Make the expression suitable.
19.1-73	Subsection 19.1.5.2.1 Step 13 Last sentence	Add the sentences: "This is the qualitative evaluation that has been in NUREG/CR 6850 to ensure that the impact of earthquake on fire related issues are addressed. No risk are computed." Editorial: Make the expression suitable.
19.1-73	Subsection 19.1.5.2.1 1 st paragraph following "Step16" a.	Change: "...are normally closed." to "...are normally closed, but are opened with the barrier failure probability." Editorial: Make the expression suitable.
19.1-74	Subsection 19.1.5.2.1 1 st paragraph following "Step16" c.	Change: "...be unimportant because such a fire as will damage doors and/or dampers is assumed." to "be unimportant because the probability of situation beyond such assumption will be low." Editorial: Make the expression suitable.
19.1-74	Subsection 19.1.5.2.1 1 st paragraph following "Step16" d.	Change: "Heat Release Rate specified in Chapter-11 of NUREG/CR-6850 is applied." to "It is assumed that, in a fire in MCR, any mitigation systems considered in Level 2 PRA are not available when operators must evacuate from the MCR." Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-74	Subsection 19.1.5.2.1 1 st paragraph following "Step16" e.	Change: "Damage temperature of thermoplastic cable shown in Appendix-H of NUREG/CR-6850 is applied." to "It is assumed that, for a Level 2 PRA, firewater pumps can be used as mitigation systems such as reactor cavity direct injection and providing water in containment as spray droplet, even when a fire breaks out." Editorial: Make the expression suitable.
19.1-74	Subsection 19.1.5.2.1 1 st paragraph following "Step16" f.	Delete: "It is assumed that, in a fire in MCR, any mitigation systems considered in Level 2 PRA are not available when operators must evacuate from the MCR." Editorial: Make the expression suitable.
19.1-74	Subsection 19.1.5.2.1 1 st paragraph following "Step16" g.	Delete: "It is assumed that, for a Level 2 PRA, firewater pumps can be used as mitigation systems such as reactor cavity direct injection and providing water in containment as spray droplet, even when a fire breaks out." Editorial: Make the expression suitable.
19.1-74	Subsection 19.1.5.2.1 2 nd paragraph following "Step16" 1 st sentence	Change: "As part of Step 2, the internal events PRA model for the US-APWR ..." to "In first step, fire compartments have been defined through plant partitioning. And, in next step, the internal events PRA model for the US-APWR ..." Editorial: Make the expression suitable.
19.1-74	Subsection 19.1.5.2.1 After the 2 nd paragraph following "Step16"	Add the sentences: "Table 19.1-54 provides a listing of the initiating events that were included and excluded in the fire PRA." Editorial: Make the expression suitable.
19.1-74	Subsection 19.1.5.2.1 4 th paragraph following "Step16"	Change: "According to the above criteria,..." to "As a result,..." Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 After the 4 th paragraph following "Step16"	Delete: "Table 19.1-54 provides a listing of the initiating events that were included and excluded in the fire PRA." And add the sentences: "Furthermore, cables associated with fire PRA components have been identified in each fire compartment." Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 1 st sentence of this paragraph	Change: “The purpose of Step 4 is to screen a fire scenario from further analysis.” to “In qualitative screening step, screening of fire scenarios have been performed.” Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 3 rd sentence of this paragraph	Change: “Screening analysis is intended for single compartment fire scenarios. Using compartment information including fire PRA components and associated cables, a qualitative screen analysis for single-compartment fire scenarios is accomplished according to the following criteria:” to “In this step, single compartment fire scenarios have been studied, and following compartments have been screened.” Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection After the 3 rd sentence of this paragraph	Delete: “Using compartment information including fire PRA components and associated cables, a qualitative screen analysis for single-compartment fire scenarios is accomplished according to the following criteria:” Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 1 st bullet of this paragraph	Change: “The compartment does not contain any fire PRA components or cables, and” to “The compartment which does not contain any fire PRA components or cables, and” Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 2 nd bullet title of this paragraph	Change: “The compartment is such that fires in the compartment will not lead to:” to “The compartment of which fires will not lead to:” Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 2 nd bullet of this paragraph 1 st item of this bullet	Change: “An automatic trip” to “An automatic reactor trip” Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 2 nd bullet of this paragraph 2 nd item of this bullet	Change: "A manual trip ..." to "A manual reactor trip ..." Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 8 th sentence of this paragraph	Change: "However, information such as that contained in ." to "However, such information as being contained in ..." Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 9 th sentence of this paragraph	Change: "... which would require manual trip-operation in a fire scenario." to "... which would require manual reactor trip-operation in a fire scenario. " Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 2 nd paragraph from the end of this subsection 10 th sentence of this paragraph	Change: "It is identified that the auxiliary building and access control building do not contain safety equipment. Therefore, the following is assumed: A fire in following compartment will not lead to a manual trip: A compartment that is in the auxiliary building or access control building A compartment that does not contain any fire PRA components and associated cables." to "And access control building have been screened from further analysis because those buildings do not contain safety equipment." Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 Last paragraph of this subsection 1 st and 2 nd sentence of this paragraph	Change: "For Step 6, it is has been considered that all cables are "qualified cables" and therefore, #12 of NUREG/CR-6850 can be omitted Regarding the mapping of plant ignition sources to generic sources, the purpose of this sub-step is to map the ignition sources of the plant to the ignition source bins in Table 6-1 of NUREG/CR 6850." to "In next step, fire ignition frequency has been estimated. Plant ignition sources have been classified in the ignition source specified in Table 6-1 of NUREG/CR 6850." Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-75	Subsection 19.1.5.2.1 Last paragraph of this subsection After the 1 st sentence of this paragraph	Change: "A bin is assigned to each known ignition source in the standard plant. The frequencies provided in NUREG/CR 6850 are assigned to the collection of ignition sources within each bin (each frequency applies to the entire set of ignition sources within the same bin). The frequencies are based on fire event experience in the U.S. nuclear power plants prior to December 2000, the same frequencies are used for this analysis." to "The frequencies are based on fire event experience in the U.S. nuclear power plants prior to December 2000, the same frequencies are used in US-APWR fire PRA. NUREG/CR 6850 also presents the modeling method in which self ignition fire of cables should be postulated in "unqualified cables". Therefore, self ignition fire of cable runs has been excluded from the ignition sources bins because "qualified cables" will be adopted in US-APWR." Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.1 At end of this subsection	Delete: "Table 19.1-54 provides a listing of the initiating events that are included and excluded in the fire PRA. Plant CDF quantification of the US-APWR PRA used the RiskSpectrum [®] PRA code." Editorial: Make the expression suitable.
19.1-75 to 19.1-86	Subsection 19.1.5.2.2 General	Followings are key modifications of internal fire PRA: 1.Plant layout and cable routing design have been modified through the plant design progress. Therefore, plant partitioning for fire compartments has been reevaluated. 2.The type and amount of fire ignition sources in many fire compartments have been re-estimated. And the fire ignition frequencies of fire compartments have been revised. 3.Fire impacts of some fire scenarios have been modified because the location of some fire PRA components and associated cables have been modified.
19.1-75	Subsection 19.1.5.2.2 1 st sentence of this subsection	Change: "Quantitative screening has been applied ..." to "Quantitative screening has been performed ..." Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-75	Subsection 19.1.5.2.2 2 nd paragraph of this subsection 1 st sentence of this paragraph	Change: "In this process, it has been ..." to "In this step, three types of fire scenarios of (a) single-compartment fire scenario, (b) multi-compartment fire scenario, and (c) MCR fire scenario have been addressed separately. In type (a) and (c) fire scenario, it has been ..." Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.2 2 nd paragraph of this subsection 2 nd sentence of this paragraph	Change: "And, any fire suppression system has been not credited. Damage probability of cable system has been estimated through Circuit Failure Mode Likely Analysis." to "In type (b) fire scenario, fire propagation to adjacent fire compartment has been postulated with the failure probability of one fire barrier." Editorial: Make the expression suitable.
19.1-75	Subsection 19.1.5.2.2 3 rd paragraph of this subsection 1 st sentence of this paragraph	Add the sentence: "RiskSpectrum [®] PRA code has been used to quantify CDF of US-APWR." Editorial: Make the expression suitable.
19.1-76	Subsection 19.1.5.2.2 At the end of 3 rd paragraph of this subsection	Add the sentence: "HEP has been estimated by using ASEP." Editorial: Make the expression suitable.
19.1-76	Subsection 19.1.5.2.2 5 th paragraph of this subsection	Change: "The first is given in Table 7-2 of NUREG/CR-6850 as:" to "The first criteria is given in Table 7-2 of NUREG/CR-6850 as:" Editorial: Make the expression suitable.
19.1-76	Subsection 19.1.5.2.2 6 th paragraph of this subsection	Change: "The second is given in Table 7-3 of NUREG/CR-6850 as:" to "The second criteria is given in Table 7-3 of NUREG/CR-6850 as:" Editorial: Make the expression suitable.
19.1-76	Subsection 19.1.5.2.2 7 th paragraph of this subsection	Change: "... 8.5E-9/Ry, in order to satisfy the second screening criterion, otherwise the all screened out sequences would be over 10% of internal event CDF." to "... 9.0E-9/Ry, in order to satisfy the second screening criterion, As a results, CDF of all screened out sequences has been within 10% of internal event CDF." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-76	Subsection 19.1.5.2.2 8 th paragraph of this subsection	Change: "... otherwise the all screened out sequences would be over 10% of total internal event LRF." to "...As a results, LRF of all screened out sequences has been within 10% of total internal event LRF." Editorial: Make the expression suitable.
19.1-76	Subsection 19.1.5.2.2 9 th paragraph of this subsection	Change: "Detailed fire modeling addresses the following three situations:" to "In detailed fire modeling following three situations have been addressed:" Editorial: Make the expression suitable.
19.1-76	Subsection 19.1.5.2.2 10 th paragraph of this subsection 1 st sentence	Change: "...10 fire compartments remained." to "...16 fire compartments scenarios have remained." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA
19.1-76	Subsection 19.1.5.2.2 10 th paragraph of this subsection 3 rd sentence	Change: "Within these 10 compartments, detailed fire modeling is judged to be unnecessary for those with contribution to CDF less than 1.0E-07/year." to "For these 16 scenarios, the necessity of detailed fire modeling has been evaluated by comparing CDF contribution of each scenario with 1.0E-07/year." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA
19.1-76	Subsection 19.1.5.2.2 10 th paragraph of this subsection 4 th sentence	Change: "Consequently, detailed fire modelings are performed on the following fire compartments." to "Consequently, the necessity of detailed fire modeling has been identified for the following fire compartments." Editorial: Make the expression suitable.
19.1-77	Subsection 19.1.5.2.2 10 th paragraph of this subsection After the 6 th sentence	Delete: "FA6-101-03 (Turbine building electric room)" Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-77	Subsection 19.1.5.2.2 After the 10 th paragraph of this subsection	Delete: "The design was improved by using fire PRA, ..." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-77	Subsection 19.1.5.2.2 1 st paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" 1 st sentence of this subsection	Change: "Detailed fire modeling has not been performed because information on the T/B and electrical cabinets is not sufficient at this stage, and the risk of these compartments is not so high." to "However, detailed fire modeling has not been performed because the detailed design information on the Switthyard and T/B has not yet been sufficient at this stage, and the risk of these compartments has not been so high." Editorial: Make the expression suitable.
19.1-77	Subsection 19.1.5.2.2 2 nd paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)"	Change: "In the fire scenario for the MCR, ..." to "In the some severe fire scenario for the MCR, ..." Editorial: Make the expression suitable.
19.1-77	Subsection 19.1.5.2.2 3 rd paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" After 1 st sentence	Add: " This means MCR fire will not affect the automatic start function of safety related equipment like ECCS" Editorial: Make the expression suitable.
19.1-77	Subsection 19.1.5.2.2 3 rd paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Between 1 st and 2 nd bullet	Delete: "Even if a fire occurs in the MCR, the automatic starting of equipment by signal, such as ECCS, is not affected;" Editorial: Make the expression suitable.
19.1-77	Subsection 19.1.5.2.2 4 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" 1 st sentence	Change: "Various screenings have been performed" to "Quantitative screening analysis has been performed" Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-77	Subsection 19.1.5.2.2 4 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" 2 nd sentence	Change: "These screenings are based on (1) qualitative factors..." to "This screening has evaluated (1) qualitative factors..." Editorial: Make the expression suitable.
19.1-77	Subsection 19.1.5.2.2 4 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" 4 th sentence	Change: "Nine multiple compartments fire scenarios remained from the screening analysis, however, as can be seen in the table, the CDF of all of those scenarios are less than the 1.0E-07/year screening criterion." to "Four multiple compartments fire scenarios have been remained from the screening analysis, and, as can be seen in the table, the CDF of every fire scenarios have been less than the 1.0E-07/year screening criterion." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-77	Subsection 19.1.5.2.2 5 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" 1 st sentence	Change: "The C/V fire has been simulated by CFAST code (Reference 19.1-38), and fire effect ..." to "In addition to the above, inside C/V fire has been simulated by CFAST code (Reference 19.1-38), and fire effect in ..." Editorial: Make the expression suitable.
19.1-77	Subsection 19.1.5.2.2 5 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" 2 nd sentence	Change: "In this analysis, the following have been considered." to "In this analysis, the following condition has been set:" Editorial: Make the expression suitable.
19.1-77	Subsection 19.1.5.2.2 6 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" 1 st sentence	Change: "...CFAST simulation is that the temperature of ..." to "...CFAST simulation has shown that the temperature of ..." Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-77	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" 1 st sentence	Change: "...the fire induced CDF, LRF for the US-APWR has been estimated as follows:" to "...the fire induced CDF and LRF for the US-APWR have been estimated as follows:" Editorial: Make the expression suitable.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Total CDF</u> "	Change: "Multi compartments fire scenario=5.7E-08/R ^Y " to "Multi compartments fire scenario= 1.0E-07/R ^Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Total CDF</u> "	Change: "Total = 1.7E-06/R ^Y " to "Total = 1.8E-06/R ^Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Total LRF</u> "	Change: "Single compartment fire scenario = 1.2E-07/R ^Y " to "Single compartment fire scenario = 1.5E-07/R ^Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Total LRF</u> "	Change: "Multi compartments fire scenario=2.5E-08/R ^Y " to "Multi compartments fire scenario= 7.4E-08/R ^Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Total LRF</u> "	Change: "Total = 1.5E-07/R _Y " to "Total = 2.3E-07/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Dominant Scenarios (CDF)</u> "	Change: "FA6-101-04 (Yard adjacent to T/B) = 1.8E-07/R _Y " to "FA6-101-01 (T/B other floor) = 1.0E-07/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-04 (FA6-101-04 Zone)" Item of " <u>Dominant Scenarios (CDF)</u> "	Change: "FA6-101-01 (T/B Other Floor) = 1.1E-07/R _Y " to "FA6-101-04 (FA6-101-04 Zone) = 8.4E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph of this subsection Item of " <u>Dominant Scenarios (CDF)</u> "	Change: "FA4-101 (Auxiliary Building) = 5.1E-08/R _Y " to "FA4-101 (Auxiliary Building) = 4.6E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Dominant Scenarios (CDF)</u> "	Change: "FA2-117 (A Part of Reactor Building) = 4.5E-08/R _Y " to "FA2-205(D Class 1E Electrical Room) = 4.6E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Dominant Scenarios (CDF)</u> "	Add the sentence: "FA2-202(A Class 1E Electrical Room)= 4.4E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Dominant Scenarios (CDF)</u> "	Add the sentence: "FA3-104(A-Class 1E GTG Room)= 3.7E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Dominant Scenarios (CDF)</u> "	Add the sentence: "FA2-205- M-05(Multi Fire Scenario from FA2-205 to FA2-206)= 3.7E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Dominant Scenarios (LRF)</u> "	Change: "FA6-101-03 (T/B electric room) = 1.4E-08/R _Y " to "FA1-101-17 (C/V 3F northwestern part floor zone)= 1.6E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Dominant Scenarios (LRF)</u> "	Change: "FA6-101-04 (Yard adjacent to T/B)= 8.6E-09/R _Y " to "FA2-205- M-05(Multi fire scenario from FA2-205 to FA2-206)= 1.5E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-78	Subsection 19.1.5.2.2 7 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)" Item of " <u>Dominant Scenarios (LRF)</u> "	Add the sentence: "FA2-205(D class 1E electrical room)= 1.3E-08/R _Y " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-79	Subsection 19.1.5.2.2 8 th paragraph following the bullet of "• FA6-101-01 (Turbine building other floor)"	Change: "Dominant fire scenarios for CDF and LRF are described below, and these scenarios account for about 94 percent of total CDF and also account for over 5 percent of total LRF, respectively." to "Dominant fire scenarios for CDF and LRF are described below. Dominant fire scenarios for CDF account for about 90 percent of total CDF. Each dominant fire scenario for LRF accounts for over 5 percent of total LRF" Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-79	Subsection 19.1.5.2.2 Item of " <u>Yard Fire (Switchyard)</u> " 2 nd sentence	Change: "... table C-17, item 27, 28 and 29), which fire ignition frequency is 2.0E-2/year." to "... table 6-1, item 27, 28 and 29), whose fire ignition frequency is 2.0E-2/year." Editorial: Make the expression suitable.
19.1-79	Subsection 19.1.5.2.2 Item of " <u>Yard Fire (Switchyard)</u> " 3 rd sentence	Change: "... and it is not possible to recover offsite power. CCDP of this fire scenario has been estimated to 6.0E-05/R _Y ." to "... it also may make the recovery of all power sources. CCDP of this fire scenario has been estimated to 6.0E-05/R _Y ." Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-79	Subsection 19.1.5.2.2 Item of " <u>Yard Fire (Switchyard)</u> " After 5 bullets - 1 st sentence	Change: "The frequency of this fire scenario is..." to "The core damage Frequency of this fire scenario is..." Editorial: Make the expression suitable.
19.1-79	Subsection 19.1.5.2.2 Item of " <u>Yard Fire (Switchyard)</u> " After 5 bullets - 1 st sentence	Change: "...1.2E-06/RY and account for 70.6% of total CDF." to "...1.2E-06/RY and account for 67.0% of total CDF." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-79	Subsection 19.1.5.2.2 Item of " <u>Yard Fire (Switchyard)</u> " " ... "Remarks"	Change: "...is 5.7E-08/RY and accounts for 39% of total LRF." to "...is 5.7E-08/RY and accounts for 25.2% of total LRF." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-79	Subsection 19.1.5.2.2 Item of " <u>Yard Fire (Switchyard)</u> " " ... "Remarks"	Change: "...to approximately 1.5E-3." to "...to approximately 1.4E-03." Editorial: Correct the typographical error.
19.1-79	Subsection 19.1.5.2.2 After the item of " <u>Yard Fire (Switchyard)</u> "	Add : " <u>FA6-101-01 (T/B other floor) fire ...</u> " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-79	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> "	Change: "Yard adjacent to T/B" to " <u>FA6-101-04 Zone</u> " Editorial: Make the expression suitable.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> " 1 st sentence	Change: "...the potential to ..." to "...the potential of ..." Editorial: Make the expression suitable.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> " 1 st sentence	Change: "... to transient combustibles fire and cable fire caused by welding or cutting and so forth, whose fire ignition frequency is 3.0E-3/year." to "... of transient combustibles fire and cable fire caused by welding or cutting and so forth, whose fire ignition frequency is 1.4E-03/year." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> " 2nd sentence	Change: "from offsite power." to "from offsite power sources." Editorial: Make the expression suitable.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> " 3rd sentences	Change: "it is not possible to recover offsite power." to "it may make the recovery of every power sources impossible." Editorial: Make the expression suitable.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> " 3 rd paragraph 2 nd bullet	Change: ".....from offsite power." to ".....from offsite power sources.." Editorial: Make the expression suitable.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> " After 5 bullets -1 st sentence	Change: "The frequency of..." to "The core damage frequency of..." Editorial: Make the expression suitable.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> " After 5 bullets -1 st sentence	Change: "The frequency of this scenario is 1.8E-07/Ry and account for 10.6% of total CDF." to "Core damage frequency of this scenario is 8.4E-08/Ry and account for 4.7% of total CDF." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> " After 5 bullets -2nd sentence	Change: "LRF scenario frequency is 8.6E-09/Ry and accounts for 6% of total LRF." to "LRF scenario frequency is 4.0E-09/Ry and accounts for 1.8% of total LRF." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA6-101-04</u> "... "Remarks"	Change: "...to approximately 1.5E-3." to "...to approximately 1.4E-3." Editorial: Correct the typographical error.
19.1-80	Subsection 19.1.5.2.2 Before the item of " <u>FA4-101</u> "	Delete: "FA6-101-01 (T/B other floor) fire ..." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA4-101</u> " Title of item	Change: "FA4-101: Auxiliary building fire" to "FA4-101(Auxiliary building) fire" Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA4-101</u> " 2 nd sentence	Change: "2.8E-02/year" to "2.5E-02/year" Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA4-101</u> " 3 rd sentence	Change: "... SLBO (Steam Line Break) and some cables associated with instrumental equipments required for operator action have been contained, but does not contain ..." to "... SLBO (Steam Line Break), but does not contain ..." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA4-101</u> " 1 st bullet	Change: "Isolation of high head injection system..." to "Isolation of safety injection system..." Editorial: Make the expression suitable.
19.1-80	Subsection 19.1.5.2.2 Item of " <u>FA4-101</u> " 2 nd bullet	Change: "... (9007A(B,C,D))" to "... (MOV-001A(B,C,D))" Editorial: Make the expression suitable.
19.1-81	Subsection 19.1.5.2.2 Item of " <u>FA4-101</u> " After the bullets -1 st sentence	Change: "... 5.1E-08/Ry and account for 3.0% of total CDF." to "... 4.6E-08/Ry and account for 2.6% of total CDF." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-81	Subsection 19.1.5.2.2 Item of " <u>FA4-101</u> " After the bullets -2 nd sentence	Change: "3.0E-09/Ry and accounts for 2.0% of total LRF." to "1.8E-09/Ry and accounts for 0.8% of total LRF." Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-81	Subsection 19.1.5.2.2 Item of " <u>FA2-205</u> "	Add the description for the item of " <u>FA2-205</u> ": " <u>FA2-205 (D Class 1E Electrical Room) fire ...</u> " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-81 to 19.1-82	Subsection 19.1.5.2.2 Item of " <u>FA2-202</u> "	Add the description for the item of " <u>FA2-202</u> ": " <u>FA2-202 (A Class 1E Electrical Room) fire ...</u> " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-82	Subsection 19.1.5.2.2 Item of " <u>FA3-104</u> "	Add the description for the item of " <u>FA3-104</u> ": " <u>FA3-104 (A Class 1E Gas Turbine Room) fire ...</u> " Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-82 to 19.1-83	Subsection 19.1.5.2.2 Item of “ <u>FA2-205-M-05</u> ”	Add the description for the item of “ <u>FA2-205-M-05</u> ”: “ <u>FA2-205-M-05 (Propagation from FA2-205 to FA2-206) fire ...</u> ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-83	Subsection 19.1.5.2.2 Item of “ <u>FA 1-101-17</u> ”	Add the description for the item of “ <u>FA1-101-17</u> ”: “ <u>FA1-101-17 (C/V 3F northwestern part floor zone) fire ...</u> ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-83	Subsection 19.1.5.2.2 After the item of “ <u>FA1-101-17</u> ”	Delete the description for the item of “ <u>FA2-117</u> ” and “ <u>FA6-101-03</u> ”: “ <u>FA2-117 (A part of reactor building) fire ...</u> ” and “ <u>FA6-101-03 (T/B electric room) fire ...</u> ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-83	Subsection 19.1.5.2.2 The paragraph following the item of “ <u>FA1-101-17</u> ” 2 nd sentence	Change: “...is less than approximately 5% of the total CDF.” to “...is approximately 10% of the total CDF.” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-83	Subsection 19.1.5.2.2 The paragraph following the item of “ <u>FA1-101-17</u> ” 3 rd sentence	Change: “... above three dominant sequences ...” to “... above four dominant sequences ...” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-84	Subsection 19.1.5.2.2 Item of basic event “ RCP---- SEAL (RCP SEAL LOCA) – ” 3 rd sentence	Change: “... by a factor of 82% if the probability of this failure is set to 0.0” to “... by a factor of 74% if the probability of this failure is set to 0.0” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-84	Subsection 19.1.5.2.2 Item of basic event “ EPSCF4DLLRDG-ALL ” Item title	Change: “EPSCF4DLLRDG-ALL (Class 1E gas turbine generator A, B, C, D fails to run (>1H) CCF)” to “EPSCF4DLLRDG-ALL (CCF of Class 1E gas turbine generator A, B, C, D fails to run after 1hr running)” Editorial: Clarify scope of statement

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-84	Subsection 19.1.5.2.2 Item of basic event “ EPSCF4DLLRDG-ALL ” 3 rd sentence	Change: “The plant CDF is decreased by a factor of 34% ...” to “The plant CDF is decreased by a factor of 31% ...” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-84	Subsection 19.1.5.2.2 Item of basic event “ EPSCF4BYFF-124 ” Item title	Change: “EPSCF4BYFF-124 (Class 1E battery A, B, D fail to operate CCF)” to “EPSCF4BYFF-124 (CCF of Class 1E battery A, B, D fail to operate)” Editorial: Clarify scope of statement
19.1-84	Subsection 19.1.5.2.2 Item of basic event “ EPSCF4BYFF-124 ” 1 st sentence	Change: “The plant CDF would increase approximately 1.4E+4 times ...” to “The plant CDF would increase approximately 1.3E+04 times ...” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-84	Subsection 19.1.5.2.2 Item of basic event “ EPSO02RDG ” 3 rd sentence	Change: “The plant CDF is decreased by a factor of 44% ...” to “The plant CDF is decreased by a factor of 39% ...” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-85	Subsection 19.1.5.2.2 Item of basic event “ HPI002FWBD-S ” 1 st sentence	Change: “The plant CDF would increase approximately 3.5E+1 times ...” to “The plant CDF would increase approximately 4.3E+01 times if ...” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-85	Subsection 19.1.5.2.2 Item of basic event “ RCP---- SEAL (RCP SEAL LOCA) – ” 3 rd sentence	Change: “The plant CDF is decreased by a factor of 82% ...” to “The plant CDF is decreased by a factor of 74% ...” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-85	Subsection 19.1.5.2.2 Item of basic event “ EFWXVELPW2A (2B) ” 1 st sentence	Change: “The plant CDF would increase approximately 5.9E+2 times ...” to “The plant CDF would increase approximately 8.9E+02 times ...” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-85	Subsection 19.1.5.2.2 Item of basic event “ EFWXVELPW2A (2B) ” 2 nd sentence	Change: “...and Secondary Demineralizer Water Tank.” to “and secondary demineralized Water Tank.” Editorial: Correct style format and Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-85	Subsection 19.1.5.2.2 3rd paragraph following the Item of “ EFWXVELPW2A (2B) ” 3 rd sentence	Change: “A sensitivity analysis may, therefore, be performed using probability 0.1 to determine the effects of fire suppression system.” to “A sensitivity analysis has, therefore, been performed using success probability 0.1 to evaluate the effects of fire suppression system.” Editorial: Make the expression suitable.
19.1-85	Subsection 19.1.5.2.2 3rd paragraph following the Item of “ EFWXVELPW2A (2B) ” 5 th sentence	Add the sentence: “Credit of fire suppression for inside C/V fire scenarios, however, has not been taken.” Editorial: Make the expression suitable.
19.1-85	Subsection 19.1.5.2.2 4th paragraph following the Item of “ EFWXVELPW2A (2B) ” 2 nd sentence	Change: “... fire scenario has not existed in this area.” to “...fire scenario has not been installed in this area.” Editorial: Make the expression suitable.
19.1-85	Subsection 19.1.5.2.2 5th paragraph following the Item of “ EFWXVELPW2A (2B) ” 1 st sentence	Change: “In Level 2 analysis, assumed that the firewater...” to “In Level 2 analysis, it has been assumed that the firewater...” Editorial: Make the expression suitable.
19.1-86	Subsection 19.1.5.2.2 5th paragraph following the Item of “ EFWXVELPW2A (2B) ” 2 nd sentence	Change: “... LRF will decrease by about 50% ...” to “... LRF will decrease by about 40% ...” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 6th paragraph following the Item of “ EFWXVELPW2A (2B) ” 1 st sentence	Change: “Uncertainty analysis for CDF has been completed based on:” to “Uncertainty analysis for CDF has been completed based on the followings:” Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-86	Subsection 19.1.5.2.2 6 th paragraph following the Item of “ EFWXVELPW2A (2B) ” 2 nd sentence(1 st bullet)	Change: “In frequency analysis, lognormal distribution with the mean and standard deviation from Table C.3 of NUREG/CR 6850 is used” to “In fire frequency analysis, lognormal distribution with the mean and standard deviation from Table C.3 of NUREG/CR 6850 has been used” Editorial: Make the expression suitable.
19.1-86	Subsection 19.1.5.2.2 6 th paragraph following the Item of “ EFWXVELPW2A (2B) ” 3 rd sentence(2 nd bullet)	Change: “Uncertainty of conditional core damage probability is referred to the internal events uncertainty” to “Uncertainty of conditional core damage probability has been derived from the internal events uncertainty” Editorial: Make the expression suitable.
19.1-86	Subsection 19.1.5.2.2 7 th paragraph following the Item of “ EFWXVELPW2A (2B) ” 2 nd sentence	Change: “... 6.0E-06/Ry - 2.0E-07/Ry for the 95% to 5% interval.” to “... 5.6E-06/Ry-2.4E-07/Ry for the 95% to 5% interval.” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 7 th paragraph following the Item of “ EFWXVELPW2A (2B) ” After the 2 nd sentence	Delete: “This indicate that there is 95% confidence that the plant CDF is no longer than 6.0E-06/Ry” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 7 th paragraph following the Item of “ EFWXVELPW2A (2B) ” 1 st bullet of “ 95th percentile” for CDF uncertainty	Change: “95th percentile6.0E-06/Ry” to “95th percentile 5.6E-06/Ry” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-86	Subsection 19.1.5.2.2 7th paragraph following the Item of “ EFWXVELPW2A (2B) ” 2nd bullet of ” Mean” for CDF uncertainty	Change: “Mean 1.7E-06/R _Y ” to “Mean 1.8E-06/R _Y ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 7th paragraph following the Item of “ EFWXVELPW2A (2B) ” 3rd bullet of ” Median” for CDF uncertainty	Change: “Median 7.8E-07/R _Y ” to “Median 8.5E-07/R _Y ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 7th paragraph following the Item of “ EFWXVELPW2A (2B) ” 4 th bullet of ” 5th percentile” for CDF uncertainty	Change: “5th percentile 2.0E-07/R _Y ” to “5th percentile 2.4E-07/R _Y ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 8th paragraph following the Item of “ EFWXVELPW2A (2B) ” 2 nd sentence”	Change: “This uncertainty is accounts for dominated eight scenarios. Because the other scenarios are less than about 1% contribution of total LRF, the influence of these scenarios is low.” to “This uncertainty calculation is considered about 90% contribute scenarios of LRF.” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 8th paragraph following the Item of “ EFWXVELPW2A (2B) ” 1 st bullet of ” 95th percentile” for LRF uncertainty	Change: “95th percentile = 3.6E-07/R _Y ” to “95th percentile 5.1E-07/R _Y ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-86	Subsection 19.1.5.2.2 8th paragraph following the Item of “EFWXVELPW2A (2B)” 2nd bullet of ” Mean” for LRF uncertainty	Change: “Mean =1.2E-07/R _Y ” to “Mean 2.1E-07/R _Y ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 8th paragraph following the Item of “EFWXVELPW2A (2B)” 3rd bullet of ” Median” for LRF uncertainty	Change: “Median =6.5E-08/R _Y ” to “Median 1.4E-07/R _Y ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86	Subsection 19.1.5.2.2 8th paragraph following the Item of “EFWXVELPW2A (2B)” 4th bullet ” 5th percentile” for LRF uncertainty of	Change: “5th percentile =1.7E-08/R _Y ” to “5th percentile 5.3E-08/R _Y ” Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-86 to 19.1-96	Subsection 19.1.5.3 General	Followings are key modifications of the internal flooding. 1. Flood sources in each flood area are revised considering and reflecting design information derived from design progressions. Also arrangements of some flood areas are changed. Therefore, the assumed lengths of the flood source piping in each flood area are also revised. The plant specific flood frequencies of the flood areas have been modified due to the changes. 2. The plant specific arrangement of water tight doors and their effects are revised in conjunction with the design progressions. The flood propagation paths and flood scenarios are revised. Also the flood propagation scenarios from the turbine driven compartments which are enclosed by water tight doors to the outside compartments are added in case the flood heights are higher than the design pressures.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-88,89	Subsection 19.1.5.3.1 Key assumption h. and p.	<p>Combine and change the key assumption h. and p. Change the former q. to p.:</p> <p>“h. Walls and watertight doors are assumed to remain intact against flooding events since they are designed to withstand anticipated maximum flood loading”</p> <p>and</p> <p>“p. Turbine driven EFW pump room and main control room are water tight compartments.”</p> <p>to</p> <p>“h. Walls are assumed to remain intact against flooding events since they are designed to withstand anticipated maximum flood loading. Flood propagation from the flood areas which enclosed by water tight doors are considered if the flood water is much and high water level in the area”</p> <p>Technical: The plant specific arrangement of water tight doors and their effects are revised in conjunction with the design progressions. The flood propagation paths and flood scenarios are revised. Also the flood propagation scenarios from the turbine driven compartments which are enclosed by water tight doors to the outside compartments are added in case the flood heights are higher than the design pressures.</p>
19.1-90	Subsection 19.1.5.3.1 2 nd paragraph from the end of this subsection After the 1 st sentence.	<p>Add the sentences: “This report provided the failure rates per reactor operating year - linear foot for each system. Therefore, flood frequencies in the flood areas are calculated considering the plant specific piping lengths of the systems which involved in the areas.”</p> <p>Technical: Flood sources in each flood area are revised considering and reflecting design information derived from design progression. Also arrangements of some flood areas are changed. The assumed lengths of the flood source piping in each flood area are also revised. The plant specific flood frequencies of the flood areas have been modified due to the changes.</p>

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

<p align="center">Page</p>	<p align="center">Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)</p>	<p align="center">Description of Change</p>
<p>19.1-90</p>	<p>Subsection 19.1.5.3.2 First paragraph of this subsection</p>	<p>Change: “The total CDF due to internal flooding is 1.5E-06/RY. The “spray” contribution is 9.8E-08/RY, the “flood” contribution is 3.6E-08/RY, and the “major flood” contribution is 1.4E-06/RY.” to “The total CDF due to the internal flooding is 1.4E-06/RY. The “spray” contribution is 1.9E-07/RY, the “flood” contribution is 4.3E-07/RY, and the “major flood” contribution is 7.4E-07/RY.”</p> <p>Technical: Revise the results according to changes in plant arrangement.</p>
<p>19.1-90</p>	<p>Subsection 19.1.5.3.2 Second paragraph of this subsection</p>	<p>Change: “The total LRF due to internal flooding is 4.0E-07/RY. The “spray” contribution is 9.4E-09/RY, the “flood” contribution is 2.0E-08/RY, and the “major flood” contribution is 3.7E-07/RY.” to “The total LRF due to the internal flooding is 2.8E-07/RY. The “spray” contribution is 1.8E-08/RY, the “flood” contribution is 1.2E-07/RY, and the “major flood” contribution is 1.4E-07/RY.”</p> <p>Technical: Revise the results according to changes in plant arrangement.</p>
<p>19.1-90,91</p>	<p>Subsection 19.1.5.3.2 Item of “Dominant scenarios of CDF”</p>	<p>Change:</p> <p>“Dominant scenarios of CDF are following ten scenarios that contribute 90% of CDF.</p> <ul style="list-style-type: none"> • FA2-407-01b (Major flood at reactor building 3F east corridor) 3.5E-07/RY • ~ • FA2-102-01 (Spray at reactor building B1F east corridor) 1.3E-08/RY” <p>to</p> <p>“Dominant scenarios of CDF are following 20 scenarios that contribute 90% of CDF.</p> <ul style="list-style-type: none"> • FA2-102-01 (Major flood at reactor building B1F A-EFW pump room) 1.7E-07/RY • ~ • FA2-407-01 (Major flood at reactor building 3F west corridor) 1.0E-08/RY” <p>Technical: Revise the results according to changes in plant arrangement.</p>

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-91,92	Subsection 19.1.5.3.2 Item of “Dominant scenarios of LRF”	<p>Change:</p> <p>“Dominant scenarios of LRF are following four scenarios and other scenarios are less than 1% of total LRF by flooding.</p> <ul style="list-style-type: none"> • FA2-407-01b (Major flood at reactor building 3F east corridor) 9.2E-08/RY <p align="center">~</p> <ul style="list-style-type: none"> • • FA2-407-01a(Major flood at reactor building 3Fwest corridor) 7.3E-08/RY” <p>to</p> <p><u>“Dominant scenarios of LRF are following 25 scenarios that contribute 90% of LRF.</u></p> <ul style="list-style-type: none"> • FA2-108-01 (Flood at reactor building B1F D-EFW pump room) 3.8E-08/RY <p align="center">~</p> <ul style="list-style-type: none"> • • FA2-103-01 (Major flood at reactor building B1F B-EFW pump room) 1.7E-09/RY” <p>Technical: Revise the results according to changes in plant arrangement.</p>
19.1-93,94	Subsection 19.1.5.3.2 Description of the key scenarios	<p>Change the descriptions of the key ten scenarios:</p> <p>from</p> <p>[FA2-407-01b] , [FA2-201-02] , [FA2-206-02] , [FA2-407-01a] , [FA2-414-01], [FA2-201-01], [FA2-206-01] , [FA2-414-01] , [FA2-415-01] , [FA2-102-01]</p> <p>to</p> <p>[FA2-102-01] , [FA2-108-01] , [FA2-102-01] , [FA2-108-01] , [FA2-414-01] , [FA2-415-01] , [FA2-414-01] , [FA2-501-03] , [FA2-501-01] , [FA2-415-01]</p> <p>Technical: Revise the results according to changes in plant arrangement.</p>
19.1-95	Subsection 19.1.5.3.2 2 nd paragraph 1 st sentence	<p>Change: “.... or east side of corridors” to “ or east side non restricted areas”</p> <p>Editorial: Make the meaning clear.</p>

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-95	Subsection 19.1.5.3.2 3rd paragraph 7th line	<p>Change:</p> <p>“If these measures have not done and a loss of offsite power with all four class 1E gas turbine generators failure occurred, the CDF and LRF of this scenario are 1.1E-06/RY and 3.5E-08/RY, respectively.”</p> <p>to</p> <p>“If these measures have not done and a loss of offsite power with all four class 1E gas turbine generators failure occurred, the CDF and LRF of this scenario are 1.1E-06/RY and 3.1E-08/RY, respectively.”</p> <p>Technical: Revise the results according to changes in plant arrangement.</p>
19.1-95	Subsection 19.1.5.3.2 After the 3 rd paragraph	<p>Add new paragraph between the third paragraph and the fifth paragraph:</p> <p>“US-APWR sets several water tight doors to prevent the propagation of floods. As a bounding sensitivity study, assumed all water barrier doors except the controlled barriers such as R/B separations between east side and west side and high energy compartments are invalid. The CDF and LRF of this bounding study are 2.6E-06/RY and 6.1E-07/RY, respectively. Although the several local watertight doors opened, the increasing of risk is not significant.”</p> <p>Technical: Add a description on sensitivity study that shows the effect of watertight door remained open.</p>

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-95,96	Subsection 19.1.5.3.2 3 rd paragraph from the end of this subsection describing the "CDF uncertainty"	<p>Change:</p> <p>"The plant CDF uncertainty range is found to be 4.5E-06/RY - 2.3E-07/RY for the 95% to 5% interval. This indicates that there is 95% confidence that the plant CDF is no greater than 4.5E-06/RY. This uncertainty calculation is considered 95% contribute scenarios of CDF.</p> <ul style="list-style-type: none"> • 95th percentile 4.5E-06/RY • Mean 1.5E-06/RY • Median 9.1E-07/RY • 5th percentile 2.3E-07/RY" <p>to</p> <p>"The plant CDF uncertainty range is found to be 4.1E-06/RY - 2.3E-07/RY for the 95% to 5% interval. This uncertainty calculation is considered 95% contribute scenarios of CDF.</p> <ul style="list-style-type: none"> • 95th percentile 4.1E-06/RY • Mean 1.3E-06/RY • Median 8.1E-07/RY • 5th percentile 2.3E-07/RY" <p>Technical: Revise the results according to changes in plant arrangement.</p>

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-96	Subsection 19.1.5.3.2 2 nd paragraph from the end of this subsection describing the “LRF uncertainty”	<p>Change:</p> <p>“The plant LRF uncertainty range is found to be 1.0E-06/R Y - 4.7E-08/R Y for the 95% to 5% interval. This indicates that there is 95% confidence that the plant LRF is no greater than 1.0E-06/R Y. This uncertainty is calculated four scenarios that dominated to LRF. Because the other scenarios are less than 1% contribution of LRF, the influences of these scenarios are low.</p> <ul style="list-style-type: none"> • 95th percentile 1.0E-06/R Y • Mean 3.3E-07/R Y • Median 2.0E-07/R Y • 5th percentile 4.7E-08/R Y” <p>to</p> <p>“The plant LRF uncertainty range is found to be 6.4E-07/R Y - 5.2E-08/R Y for the 95% to 5% interval. This uncertainty calculation is considered about 90% contribute scenarios of LRF.</p> <ul style="list-style-type: none"> • 95th percentile 6.4E-06/R Y • Mean 2.4E-07/R Y • Median 1.8E-07/R Y • 5th percentile 5.2E-08/R Y” <p>Technical: Revise the results according to changes in plant arrangement.</p>
19.1-109	Subsection 19.1.6.1 Last item of this subsection “h” 2 nd sentence	<p>Change: “Subsection 6.2.1” is revised to “Subsection 6.2.2”.</p> <p>Editorial: Correct a typographic error.</p>
19.1-111	Subsection 19.1.6.2, 4 th paragraph of this subsection 6 th bullet Title	<p>Change: “LOCA with success of isolation and RCS makeup” to “LOCA [loss-of-coolant accident] with failure of isolation and RCS makeup”.</p> <p>Editorial: Correct the typographical error.</p>

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-112	Subsection 19.1.6.2, 6 th paragraph	<p>Add:</p> <p>“Although the plant states of other POSs differ from POS 8-1, the mitigation system of other POSs are equivalent to that of POS 8-1, or the decay heat removal via SGs or the gravitational injection can be additionally taken credit compared to POS 8-1. The conditional core damage probability of each sequence in other POSs decreases as a result of increase in mitigation systems and were represented by human error probability caused by dependency between tasks. For the frequency evaluation of initial events (IEs), such as loss of CCW, contribution of human error is relatively small, so the frequency of IEs were quantified by detailed analysis for each POSs. The CDF value of POSs other than POS 8-1 were evaluated by the three values shown below;</p> <ul style="list-style-type: none"> • The frequency of IEs evaluated for each POS • conditional core damage probability of POS 8-1 • The reduction factor of conditional core damage probability of POS 8-1 based on number of effective mitigation systems and human error dependency” <p>RAI: No.1 19-7(a)</p>
19.1-112	Subsection 19.1.6.2, 7 th paragraph	<p>Add the following description in response to the RAI:</p> <p>“CDF for other POSs than POS 8-1 were evaluated using the following equation for each core damage sequences.</p> $CDF_{POSX, SequenceY} = IE_{POSX} \times CCDP_{POS8-1, SequenceY} \times factor_{POSX, SequenceY}$ <p>$CDF_{POSX, SequenceY}$: CDF of the sequence Y in POS X IE_{POSX} : IE frequency of POS X $CCDP_{POS8-1, SequenceY}$: CCDP of the sequence Y in POS 8-1 $factor_{POSX, SequenceY}$: Reduction factor of the sequence Y in POS X”</p> <p>RAI: No.1 19-7(b)</p>

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.1-112 to 19.1-124	Subsection 19.1.6.2 8 th and 9 th paragraph	Add: "LOCA initiating event is significant for all POSs during low power and shutdown. For all POSs, LOCA is conservatively assumed to occur by opening of a single valve. Its frequency is higher than other initiating events that are caused by mechanical failures, hence largely contributes to the CDFThe gravitational injection is unavailable for the same reason described above. Failure of injection to the RCS by charging pump and SI pump occur and the reactor core is damaged." RAI: No.1 19-7(c)
19.1-127	Subsection 19.1.6.2 Item of "SWSCF3PMYRSWP ABC-ALL" 1 st sentence of this item	Change: "5.0E-03" to "5.0E+03". Editorial: Correct the typographical error.
19.1-127	Subsection 19.1.6.2 Item of "EPSCF4CBTD6H-ALL" . Title of this item	Change: "incomer circuit breaker" to "incoming circuit breaker". Editorial: Correct the typographical error.
19.1-127	Subsection 19.1.6.2 4 th paragraph of "Common-cause importance"	Change: "incomer circuit breakers" to "incoming circuit breakers". Editorial: Correct the typographical error.
19.1-128	Subsection 19.1.6.2, 4 th paragraph from the end of this subsection Last sentence of this paragraph	Change: "The important operator action of other POS is shown in Table19.1-97 to Table19.1-104. And the important SSCs of POS is shown in Table19.1-105 to Table19.1-112" to "The important operator action of POS 8-1 and other POSs are shown in Table19.1-97 to Table19.1-105. And the important SSCs of POS 8-1 and other POSs are shown in Table19.1-106 to Table19.1-114". Editorial: Revise the description according to the changes of tables.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-130	Subsection 19.1.6.3.2 3 rd paragraph	Add the following paragraph in response to the RAI: “LOCA and LOOP initiating events are potentially significant for all POSs. On the other hand, OVDR and FLWL are initiating events only considered in POSs representing mid-loop operation. Accordingly, LOCA and LOOP are significant in POSs where the RCS is full, while for POS of mid-loop operation, OVDR and/or FLWL are significant event other than LOCA and LOOP. In internal fire PRA for at-power operation, fire in the compartments (e.g. switchyard) that cause LOOP are significant fire scenarios. Similar events are considerably significant during low power and shutdown (Internal events).” RAI: No.1 19-7(b)
19.1-130	Subsection 19.1.6.3.2 4 th paragraph 1 st sentence	Change: “Also fire risk at LPSD has...” to “Fire risk at LPSD has....” Editorial: Make the expression suitable.
19.1-130	Subsection 19.1.6.3.2 4 th paragraph 2 nd bullet	Add : “In low power and shutdown period, fire door provided to the opening between the fire origin compartment and the adjacent fire compartment in which some maintenance works are held are assumed to be left open.” Editorial: Make the expression suitable.
19.1-130	Subsection 19.1.6.3.2 4 th paragraph 3 rd bullet At the end of this bullet	Delete: “(boundary conditions of event trees)” Editorial: Delete the unnecessary words.
19.1-130	Subsection 19.1.6.3.2 5 th paragraph	Change: “The results of CDF of POS 8-1 are 4.3E-8/Ry.” to “The results of CDF of POS 8-1 are 1.9E-8/Ry.” Technical: Reflect the modification of plant layout and cable routing design
19.1-130	Subsection 19.1.6.3.3 1 st paragraph 2 nd bullet	Change: “Loss of RHR (Flood at CSS/RHRS system)” to “Loss of RHR (Flood at CSS/RHRS line)” Editorial: Make the expression suitable.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-130,131	Subsection 19.1.6.3.3 After the 2 nd paragraph of this subsection	Add: “Loss of CCW/ESW initiating event is significant for all POSs during low power and shutdown. As can be seen by at-power operation internal flooding PRA, the probability of consequential loss of CCW/ESW event caused by flooding is much higher than loss of other functions. In POSs where redundancy of CCW/ESW is degraded, the conditional core damage probability will increase. These features are common to all POSs and accordingly, loss of CCW/ESW is considered to be a significant initiating event.” RAI: No.1 19-7(b)
19.1-131	Subsection 19.1.6.3.3 7 th paragraph of this subsection After the 3 rd bullet	Add: “ • The flood barriers that separated the reactor building between the east side and the west are effective.” Technical: Specify the conditions of key flooding barriers.
19.1-131	Subsection 19.1.6.3.3 7 th paragraph of this subsection After the 4 th bullet	Add: “ • Assumed available safety injection pumps are A and C pumps and outage safety injection pumps are B and D from the insights of internal flooding risk.” Technical: Add the insight of flooding risk that keep available mitigation systems in each side of R/B.
19.1-131	Subsection 19.1.6.3.3 Last paragraph of this subsection	Change: “The CDF of the flooding risk at POS 8-1 of LPSD was 9.6E-09/R.Y.” to “The CDF of the flooding risk at POS 8-1 of LPSD was 1.8E-08/R.Y.” Technical: Revise the results according to changes in plant arrangement.
19.1-132	Subsection 19.1.7.1 Last line of this subsection	Change: “Table19.1-77.” to “Table19.1-115”. Editorial: Correct the table number.
19.1-132	Subsection 19.1.7.2	Change the whole description to “PRA input is provided as required to develop the Maintenance Rule, discussed in Chapter 17 Section 17.6.” Editorial: Make the expression suitable for not only DC application but also COL application.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-132	Subsection 19.1.7.3 , 2 nd sentences of this subsection	Change “However, during design certification, no specific PRA inputs have been provided toward a reactor oversight process. The reactor oversight process will be developed by the COL Applicant.” to “PRA input is provided as required to evaluate the mitigating systems performance indicators as part of the reactor oversight process.” Editorial: Make the expression suitable for not only DC application but also COL application.
19.1-132	Subsection 19.1.7.4 At the end of this subsection	Add: “PRA input is provided as required to develop the RAP, discussed in Chapter 17 Section 17.4.” Editorial: Clarify the PRA’s commitment to the RAP.
19.1-132	Subsection 19.1.7.6 1 st paragraph At the end of last sentence of this paragraph	Add: “and surveillance frequency control program (SFCP)” Editorial: Modify the description according to the contents of subsection “16.1.1.2 (6)”.
19.1-132	Subsection 19.1.7.6 2 nd paragraph At the end of 1 st sentence of this paragraph	Add the description: “and SFCP” Editorial: Modify the description according to the contents of subsection “16.1.1.2 (6)”.
19.1-133	Subsection 19.1.7.6 2 nd paragraph At the end of this paragraph	Add: “Concerning the SFPC, NEI 04-10 (Reference 19.1-44) provides the guidance to establish licensee control of surveillance test frequencies for the majority of Technical Specifications surveillances. Section 4 of the NEI 04-10 describes the detailed SFCP process including adequacy of the PRA.” Editorial: Modify the description according to the contents of subsection “16.1.1.2 (6)”.
19.1-133	Subsection 19.1.7.6 After the 3 rd paragraph	Add: “In the SFCP, the PRA will be used to determine the risk impact of the surveillance test frequencies.” Editorial: Modify the description according to the contents of subsection “16.1.1.2 (6)”.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
19.1-133	Subsection 19.1.7.6 5th paragraph At the end of 1st and last sentence of this paragraph	Change: "...specified in the NEI 06-09" to "...specified in the NEI 06-09 and 04-10" Editorial: Modify the description according to the contents of subsection "16.1.1.2 (6)".
19.1-133	Subsection 19.1.7.6 Last sentence of this subsection	Change: "... requirement of NEI 06-09" to "... requirement of NEI 06-09 and 04-10" Editorial: Modify the description according to the contents of subsection "16.1.1.2 (6)".
19.1-134	Subsection 19.1.8 8th bullet	Change: "Reference 19.1-44" to "Reference 19.1-45". Editorial: Revise the reference number.
19.1-135	Subsection 19.1.8 2 nd paragraph from the end of this paragraph 2 nd and 3 rd bullet	Change: "Internal fire: 1.7 E-06/Ry" to "Internal fire: 1.8 E-06/Ry" Change: "Internal flood: 1.5 E-06/Ry" to "Internal flood: 1.4 E-06/Ry" Technical: Revise the results according to the plant arrangement change.
19.1-135	Subsection 19.1.8 Last paragraph of this subsection 2 nd and 3 rd bullet	Change: "Internal fire: 2.0 E-07/Ry" to "Internal fire: 2.3E-07/Ry" Change: "Internal flood: 4.0 E-07/Ry" to "Internal flood: 2.8 E-07/Ry" Technical: Revise the results according to the plant arrangement change.
19.1-139	Subsection 19.1.9 Reference 19.1-44	Add "Reference 19.1-44" to the reference list. Editorial: Revise the reference list.
19.1-139	Subsection 19.1.9 Reference 19.1-45,46	Change: "Reference 19.1-44" to "Reference 19.1-45" Change: "Reference 19.1-45" to "Reference 19.1-46" Editorial: Revise the reference list.
19.1-146	Table 19.1-2, Line of "7" Column of "Reference"	Change "Reference 19.1-45" to "Reference 19.1-46". Editorial: Revise the reference number.
19.1-202	Table 19.1-28, Column title in 4 th column	Change: "Basic Event" to "Basic Event Probability" Editorial: Correct the typographical error.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-235	Table 19.1-28, Column title in 4 th column	Change: “Basic Event” to “Basic Event Probability” Editorial: Correct the typographical error.
19.1-240	Table 19.1-33 Column title in 4 th column	Change: “Basic Event” to “Basic Event Probability” Editorial: Correct the typographical error.
19.1-262	Table 19.1-40 Column title in 1 st column	Change: “Initiating Event” to “Initiating Event ID” Editorial: Correct the typographical error.
19.1-263 to 19.1-297	Table 19.1-41,42 Column title in 4 th column	Change: “Basic Event” to “Basic Event Probability” Editorial: Correct the typographical error.
19.1-323	Table 19.1-54 line of “3” Column of “Considered in Fire PRA MODEL”,	Change: “pressurized power operated relief valve” to “safety depressurization valve” Editorial: Correct the typographical error.
19.1-323	Table 19.1-54 Line of “12” Column of “Considered in Fire PRA MODEL”,	Change: “Yes” to “No, fire cannot affect all four trains because of physical separation between trains” RAI: No.1 19.18 Editorial and reflecting the response to the RAI
19.1-324 to 19.1-397	Table 19.1-55 to 19.1-66	Revise the tables of the internal fire results. Technical: Reflect the modification of plant layout and cable routing design to Fire PRA.
19.1-398 to 19.1-615	Table 19.1-67 to 75	Revise the tables of the internal flooding results. Technical: Revise the results according to changes in plant arrangement.
19.1-669	Table 19.1-97	Insert a new table of LPSD PRA results. RAI: No.1 19.7(d)
19.1-670 19.1-677	Table 19.1-98 to 105	Revise: tables of LPSD PRA results. RAI: No.1 19.7(d)
19.1-678	Table 19.1-106	Insert a new table of LPSD PRA results. RAI: No.1 19.7(d)
19.1-679 19.1-686	Table 19.1-107 to 114	Revise tables of LPSD PRA results. RAI: No.1 19.7(d)

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.1-687to 19.1-690	Table 19.1-115 ,table number	Change: "Table 19.1-113" to "Table 19.1-115". Editorial: Revise table numbers accordingly.
19.1-690	Table 19.1-115 (Sheet 4 of 4) Flood protection f.	Change: "f. Turbine driven EWF pump room and main control room are water tight compartments." to "f. Flood propagation from the flood areas which enclosed by water tight doors are considered if the flood water is much and high water level in the area." Technical: The plant specific arrangement of water tight doors and their effect are revised in conjunction with the design progressions. Therefore, the flood propagation paths and flood scenarios are also revised. Also add the flood propagation scenarios from the turbine driven compartments which are enclosed by water tight doors to the outside compartments, if the flood heights are higher than the design pressures.
19.2-20	Subsection 19.2.3.3.6.2 , the 1 st sentence of this section	Change: "Subsection 19.2.2.1.5" to "Subsection 19.2.2.5" Editorial: Correct the typographical error.
19.2-28	Subsection 19.2.4.2 3 rd paragraph of this subsection At the end of 4 th sentence of this paragraph	Change: "... is calculated as 0.2." to "... is calculated as 0.18." Technical: Revise the results according to the plant arrangement change.
19.2-28	Subsection 19.2.4.2 3 rd paragraph of this subsection At the end of 8 th sentence of this paragraph	Change: "... is calculated as 0.16." to "...is calculated as 0.14." Technical: Revise the results according to the plant arrangement change.
19.2-30	Subsection 19.2.5 (1), the fourth bullet item, line 5	Change: "before" to "upstream of" Editorial: Revise the expression.
19.2-33	Subsection 19.2.6.1, the first sentence of the second paragraph	Change: "SAMDA" to "Severe Accident Mitigation Design Alternatives (SAMDA)" Editorial: Add the full spelt expression for acronym.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

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19.2-33	Subsection 19.2.6.1, the second paragraph, after the last sentence	Add: "In addition, the supporting analysis is reported in the US-APWR Level 3 PRA report (Reference 19.2-73)" Editorial: Clarify the treatment of Level 3 PRA.
19.2-33	Subsection 19.2.6.1.1 ,the last sentence of the first paragraph	Delete: "as part of the design certification application" Editorial: Delete the unnecessary phrase.
19.2-33	Subsection 19.2.6.1.1 , the second paragraph the 7 th line from the bottom of this page	Change: "Paragraph 52.47(a)(i)(iv) concerns" to "Paragraph 52.47(a)(21) concerns" Editorial: Correct the concerning section description of 10CFR52.47.
19.2-35	Subsection 19.2.6.2 ,the total value of LRF of internal events, internal fire and internal flood	Change: "7.0E-07/Ry" to "6.1E-07/Ry" Editorial: Correct the typographical error of total LRF value.
19.2-35	Subsection 19.2.6.2 ,the total value of LRF of internal events, internal fire, internal flood and LPSD	Change: "9.0E-07/Ry" to "8.1E-07/Ry" Editorial: Correct the typographical error of total LRF value.
19.2-35	Subsection 19.2.6.3.1 ,the second line from the bottom	Change: "another" to "the other" Editorial: Revise the expression.
19.2-36	Subsection 19.2.6.3.2 ,the second paragraph	Change: "19.2.6.5" to "Subsection 19.2.6.5" Editorial: Clarify the subsection expression.
19.2-43	Subsection 19.2.7 ,reference 19.2-66	Change: " <u>Applicant's Environmental Report - Standard Design Certification</u> " to " <u>Applicant's Environmental Report - Standard Design Certification</u> , MUAP-DC021, Rev.1" Change: "December. 2007" to "August. 2008". Editorial: Update the version of reference document.
19.2-43	Subsection 19.2.7 ,reference 19.2-69	Change: " MUAP-07030, Rev.0" to "MUAP-07030, Rev.1" Change: "December 2007" to "September 2008". Editorial: Update the version of reference document

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.2-43	Subsection 19.2.7 ,reference list 19.2-73	Add new reference: Reference 19.2-73 Editorial: Revise the reference list.
19.2-53	Table 19.2-9 Columns of "Sensitivity of each SAMDA benefit",	Revise the sensitivity of each SAMDA benefit. Technical: Revise the results according to the plant arrangement change.
19.3-1	Subsection 19.3.1	Change: "The Level 3 PRA in Section 19.1, and Subsection 19.2.6 and subsections will be completed within March 2008." to "There are no open items associated with this Chapter." Technical: Revise the expression according to DCD progress.
19.3-1	Title of subsection 19.3.1	Change: "Open Items" to "Resolution of Open Items" Editorial: Revise words according to DCD progress.
19.3-1	Title of subsection 19.3.2	Change: "Confirmatory Items" to "Resolution of Confirmatory Items" Editorial: Revise words according to DCD progress.
19.3-1	Title of subsection 19.3.3	Change: "COL Action Items" to "Resolution of COL Action Items" Editorial: Revise words according to DCD progress.
19.3-1	Subsection 19.3.3 COL item 19.3(1)	Changed: "The COL Applicant will continue to provide for risk-managed technical specifications, RAP, etc." to "The COL Applicant who intends to implement risk-managed technical specifications continues to update Probabilistic Risk Assessment and Severe Accident Evaluation to provide PRA input for risk-managed technical specifications." Editorial: Clarify PRA updating process.
19.3-1	Subsection 19.3.3 COL item 19.3(2)	Delete the COL item. Editorial: Delete the unnecessary sentence according to DCD progress.

US-APWR DCD Chapter 19 Revision 0 to Revision 1 Change List

Page	Location (e.g., subsection with paragraph/sentence/item ,table with column/row, or figure)	Description of Change
19.3-1	Subsection 19.3.3 COL item 19.3(3)	Change: “A reactor oversight process is the responsibility of the COL Applicant.” to “To provide PRA input to the reactor oversight process is a responsibility of the COL Applicant.” Editorial: Clarify the procedure of PRA input to reactor oversight process.
19.3-1	Subsection 19.3.3 COL item 19.3(4)	Change: “PRA will be” to “Probabilistic Risk Assessment and Severe Accident Evaluation is” Editorial: Clarify the boundary condition.
19.3-1	Subsection 19.3.3 COL item 19.3(5)	Change: “shall be” to “are” Editorial: Revise the tense.
19.3-1	Subsection 19.3.3 COL item 19.3(6)	Change: “will develop” to “develops” Editorial: Revise the tense.