

ESBWR DCD Tier 1

26A6641AB Revision 7 to Revision 8 Change List

Item	Location	Description of Change
1.	Entire Chapter	Header changed from Rev 7 to Rev 8.
2.	S2.1.1 new design commitment	Added item “(15) The initial fuel to be loaded into the core will be able to withstand fuel lift and seismic and dynamic loads under normal operation and design basis conditions.” (MFN 06-297 S09)
3.	T2.1.1-3 new ITAAC for design commitment (15)	Added new Design Commitment “The initial fuel to be loaded into the core will be able to withstand fuel lift and seismic and dynamic loads under normal operation and design basis conditions.” Added new Inspections, Tests, Analyses “An analysis of the fuel lift and seismic and dynamic loads will be performed on the fuel bundle design that will be loaded into the ESBWR initial core.” Added new Acceptance Criteria “The initial fuel to be loaded into the core will have primary stresses and maximum fuel bundle lift out of the fuel support piece that do not exceed the allowable values provided in the approved Fuel Assembly Mechanical Design Report.” (MFN 06-297 S09).
4.	T2.1.2-3, 2b3	Changed table referenced by ITA and AC to be consistent with table referenced in Design Commitment. (MFN 10-280 S02)
5.	T2.2.10-1	Added ICS DPV Isolation Function in response to RAI 6.2-202 S01. (MFN 10-044 S03)
6.	T2.2.13-2	Added ICS DPV isolation in response to RAI 6.2-202 S01. (MFN 10-044 S03)
7.	T2.2.14-4	Added a missing word, grammatical error.

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8.	Section 2.2.15 - ALL	General note regarding Section 2.2.15 and associated tables: Changes have occurred over a period of time and consequently some initial changes were wholly or partially superseded. In addition, extensive detail was added to address ACRS concerns which resulted in renumbering of the ITAAC. This Change List uses the current ITAAC numbering to describe the overall change but is not always able to exactly reflect all changes in situations where multiple MFN letters, with extensive changes, apply.
9.	S2.2.15 2 nd and 15 th para.	Added ICS DPV Isolation Function independent control platform in response to RAI 6.2-202 S01. (MFN 10-044 S03)
10.	S2.2.15, 2 nd para.	Added “safety-related” before “protection systems” to distinguish from DPS for clarity per internal corrective action. (MFN-10-269)
11.	S2.2.15, new 12 th para.	Added new paragraph and ITAAC for IEEE Std. 603, Criteria 4.10 to ensure that determinant data processing and communications is adequately and explicitly address per internal corrective action. (MFN-10-269)
12.	S2.2.15, 15 th para.	Added “DPS” to correct actual heading or label for the concerned table column as “Control Q-DCIS/DPS” per internal corrective action. (MFN-10-269)
13.	S 2.2.15 design description items 19a, 20a1, 20a, 21a, 23a, 23b, 24a and 24b.	Changed text to match wording in corresponding design commitment. (MFN 10-280 S01 and MFN 10-280 S02)
14.	S2.2.15, 25 th para., item 3b	Added “with changes reconciled” to correct latent defect of omission as a conforming change with respect to its corresponding Table 2.2.15-2 entry; per internal corrective action. (MFN-10-269)

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15.	S2.2.15, 25 th para., new items 8a and 8b	Added new ITAACs to ensure that determinant data processing and communications is adequately and explicitly address; per internal corrective action. (MFN-10-269) (MFN 10-280 S02)
16.	S2.2.15, 25 th para., new items 10a1 and 10b1	Replaced “are designed so” with “design bases ensures” for clarification. (MFN-10-269)
17.	S2.2.15, 25 th para, items 11a2 and 11b2, new 2 nd bullet	Added to conform with the new statement in Tier 2 Subsection 7.1.2.1.1 - Independence Design Principle, 3 rd para., 2 nd sentence, that “All inter-divisional Q-DCIS and N-DCIS data communications carried on optical fibers are run in conduit and terminate in their applicable DCIS cabinets that are locked and whose door position is alarmed in the MCR; per internal corrective action. (MFN-10-269)
18.	Section 2.2.15, 11b7	Clarified 3 rd and 5 th bullets of Design Description. (MFN 10-280 S02)
19.	S2.2.15, 25 th para., new items 11a4 to 11a12, and 11b4 to 11b12	Added new ITAACs to address Independence design principle for the ESBWR Q-DCIS implementation; per internal corrective action. (MFN-10-269)
20.	S2.2.15, 25 th para., new item 17a2	Added new ITAACs to address BTP HICB-21 - Guidance on Digital Computer Real-Time Performance in general and specifically the section on Design Commitments related to avoiding the use of risky design practices for the design bases; per internal corrective action. (MFN-10-269)
21.	S2.2.15, 25 th para., new item 17b2	Added new ITAACs to address BTP HICB-21 - Guidance on Digital Computer Real-Time Performance in general and specifically the section on Design Commitments related to avoiding the use of risky design practices for as-built; per internal corrective action. (MFN-10-269)

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22.	T2.2.15-1, 1 st row	Changed “Software Projects” to “Software (Projects) Functional Systems (Para. Ref.) since “Software Project” is a defined term in Tier 2 Ch. 7 S7B SOFTWARE DEVELOPMENT; per internal corrective action. (MFN-10-269)
23.	T2.2.15-1	Added ICS DPV Isolation Function independent control platform in response to RAI 6.2-202 S01. (MFN 10-044 S03)
24.	T2.2.15-1, new 8 th row	Added IEEE Std. 603, Criteria 4.10 to ensure that determinant data processing and communications is adequately and explicitly address; per internal corrective action. (MFN-10-269)
25.	T2.2.15-1, new notes (6) and (7)	Added to provide adequate granularity and specificity to the ITAAC descriptions and that there are ITAACs which are not common across the software projects; per internal corrective action. (MFN-10-269)
26.	T2.2.15-2, ITAAC 1b	Added to ITA: “and to ensure that changes have been reconciled.” Added to AC: “and changes have been reconciled.” (RAI 14.3-345 S01, MFN-10-157)
27.	T2.2.15-2, ITAAC 2a	Added to ITA: “monitored” before “variables”. (RAI 14.3-345 S01, MFN-10-157)
28.	T2.2.15-2, ITAAC 2b	Changed ITA: “Inspection of the software project installation phase summary BRR will be performed for identification of monitored variables and to ensure that changes have been reconciled.” Added to AC: “and changes thereto are reconciled for”. (RAI 14.3-345 S01, MFN-10-157)

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29.	T2.2.15-2, ITAAC 3b	<p>Added to DC: “The as-built software project’s design bases, <u>with changes reconciled</u>, list”. Added to ITA: “of protective actions subsequent to initiation and to ensure changes have been reconciled.” Added to AC: “and changes thereto are reconciled for”.</p> <p>(RAI 14.3-345 S01, MFN-10-157)</p>
30.	T2.2.15-2, ITAAC 4b	<p>Added to ITA: “and to ensure that changes have been reconciled.” Added to AC: “and changes have been reconciled.” (RAI 14.3-345 S01, MFN-10-157)</p>
31.	T2.2.15-2, ITAAC 5b	<p>Added to ITA: “and to ensure that changes have been reconciled.” Added to AC: “and changes have been reconciled.” (RAI 14.3-345 S01, MFN-10-157)</p>
32.	T2.2.15-2, ITAAC 6a	<p>Added to ITA: “identification of”.</p> <p>(RAI 14.3-345 S01, MFN-10-157)</p>
33.	T2.2.15-2, ITAAC 6b	<p>Changed ITA: “Inspection of the as-built software project installation phase summary BRR will be performed for the conditions having the potential for causing functional degradation of the safety-related system performance and to ensure that changes have been reconciled.” Changed AC: “The as-built software accounts for the applicable conditions having the potential to cause functional degradation of safety-related system performance and changes have been reconciled.” (RAI 14.3-345 S01, MFN-10-157)</p>
34.	T2.2.15-2, ITAAC 7a	<p>Added to ITA: “for identification”.</p> <p>(RAI 14.3-345 S01, MFN-10-157)</p>

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35.	T2.2.15-2, ITAAC 7b	Changed ITA: "Inspection of the as-built software project will be performed of the applicable qualitative and quantitative reliability goals, and to ensure that changes have been reconciled." Changed AC: "The as-built software project identifies applicable qualitative and quantitative reliability goals used to assess the reliability of the safety-related system design and changes have been reconciled." (RAI 14.3-345 S01, MFN-10-157)
36.	T2.2.15-2, new ITAACs 8a and 8b	Added new ITAACs to ensure that determinant data processing and communications is adequately and explicitly address; per internal corrective action. (MFN-10-269)
37.	T2.2.15-2, ITAAC 9b	Changed ITA: "Inspection will be performed to show that the as-built software project complies with the results of the FMEA." Changed AC: "The as-built software project complies with the results of the FMEA." (MFN 10-157)
38.	T2.2.15-2, ITAAC 10a2	Added to AC: "that are provided to require deliberate operator action to return the safety-related systems to normal." (RAI 14.3-345 S01, MFN-10-157)
39.	T2.2.15-2, ITAAC 10b1	Changed ITA: "Tests will be performed to show that once initiated (automatically and manually), the intended sequences of safety-related functions of the "execute features" continue until completion." Changed AC: "Once initiated (automatically and manually), the intended sequences of safety-related functions of the "execute features" continue until completion." (RAI 14.3-345 S01, MFN-10-157)

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40.	T2.2.15-2, ITAAC 10b2	Changed ITA: “Tests of the “manual reset” features will be performed.” Changed AC: “Tests show that after completion of protective actions, deliberate operator action to operator the “manual reset” features is required to return the safety-related systems to normal.” (MFN 10-157)
41.	T2.2.15-2, ITAAC 10b1	Changed ITA: “Tests will be performed to show that the software projects have four independent, redundant divisions.” Changed AC: “The as-built software projects have four independent, redundant divisions.” (RAI 14.3-345 S01, MFN-10-157)
42.	T2.2.15-2, ITAAC 10b2	Changed ITA: “Tests will be performed to show that the software project’s interdivisional communication systems have optically isolated fiber optic communication pathways.” Changed AC: “The as-built software project’s interdivisional communication systems have optically isolated fiber optic communication pathways.” (RAI 14.3-345 S01, MFN-10-157)
43.	T2.2.15-2, ITAAC 10b3	Changed ITA: “Tests will be performed to show that the as-built software project’s safety-related functions are performed independently of the existence and function of any nonsafety-related component, data, and communication channel.” Changed AC: “The as-built software project’s safety-related functions are performed independently of the existence and function of any nonsafety-related component, data, and communication channel.” (RAI 14.3-345 S01, MFN-10-157)

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44.	T2.2.15-2, ITAACs 11a2 and 11b2, new 2 nd bullet	Added to conform with the new statement in Tier 2 Subsection 7.1.2.1.1 - Independence Design Principle, 3 rd para., 2 nd sentence, that “All inter-divisional Q-DCIS and N-DCIS data communications carried on optical fibers are run in conduit and terminate in their applicable DCIS cabinets that are locked and whose door position is alarmed in the MCR; per internal corrective action. (MFN-10-269)
45.	T2.2.15-2, new ITAACs 11a4 to 11a12, and 11b4 to 11b12	Added new ITAACs to address Independence design principle for the ESBWR Q-DCIS implementation; per internal corrective action. (MFN-10-269)
46.	T2.2.15-2, ITAAC 11b1	Changed ITA: “Tests will be performed to show that the design allows for trip and bypass of individual functions in each safety-related system division to demonstrate that individual functions can be tripped and bypassed and those functions not in bypass remain functional.” Changed AC: “Individual functions in each safety-related system division can be tripped and bypassed and those not in bypass remain functional.” (MFN 10-157)
47.	T2.2.15-2, ITAAC 11a7	Changed text to match wording in corresponding design description. (MFN 10-280 S01)
48.	Table 2.2.15-2, 11b7	Clarified 3 rd and 5 th bullets in Design Commitment and ITAAC. (MFN 10-280 S02)

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49.	T2.2.15-2, ITAAC 12b2	Changed ITA: “Tests will be performed to show that when one division is placed into maintenance bypass mode, the condition is alarmed in the MCR and the division logic automatically becomes a two-out-of-three voting scheme.” Changed AC: “When one division is placed into maintenance bypass mode, the condition is alarmed in the MCR and the division logic automatically becomes a two-out-of-three voting scheme.” (RAI 14.3-345 S01, MFN-10-157)
50.	T2.2.15-2, ITAAC 12a	DC column text aligned correctly (removed space before “The”). (RAI 14.3-345 S01, MFN-10-157)
51.	T2.2.15-2, ITAAC 13b	Changed ITA: “Tests will be performed to show the operation of the keylock doors, keylock switches, and passwords.” Changed AC: “Keylock doors, keylock switches, and passwords allow for administrative control of access to safety-related system equipment.” (RAI 14.3-345 S01, MFN-10-157)
52.	T2.2.15-2, ITAAC 14a	Changed AC: “project” to “project’s”. (RAI 14.3-345 S01, MFN-10-157)
53.	T2.2.15-2, ITAAC 14b	Changed ITA: “Tests of the as-built will be performed of the self-diagnostic features.” Changed AC: “Self-diagnostic functions locate failure to the component level by facilitating the timely recognition, location, replacement, repair, or adjustment of malfunctioning equipment.” (RAI 14.3-345 S01, MFN-10-157)
54.	T2.2.15-2, ITAAC 15b	Changed ITA: “Inspection will be performed to confirm that the redundant portions of the as-built software projects are distinctly identified.” Changed AC: “The redundant portions of the as-built software projects are distinctly identified.” (RAI 14.3-345 S01, MFN-10-157)

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55.	T2.2.15-2, ITAAC 16b	Changed ITA: “Tests will be performed to show that the as-built software projects confirm the results of the FMEA that other auxiliary features of the software project do not result in degradation below an acceptable level.” Changed AC: “The as-built software project performance confirms the results of the FMEA that other auxiliary features of the software project do not result in degradation below an acceptable level.” (RAI 14.3-345 S01, MFN-10-157)
56.	T2.2.15-2, ITAAC 17a	Changed DC: “provides” to “provide” to match S2.2.15, Item 16a. (RAI 14.3-345 S01, MFN-10-157)
57.	T2.2.15-2, ITAAC 18b	Changed ITA: “Tests will be performed using simulated signals and actuators, to demonstrate automatic initiation and control for the required safety-related functions.” Changed AC: “The as-built software project provides the means to automatically initiate and control the required safety-related functions.” (RAI 14.3-345 S01, MFN-10-157)
58.	T2.2.15-2, new ITAAC 17a2	Added new ITAACs to address BTP HICB-21 - Guidance on Digital Computer Real-Time Performance in general and specifically the section on Design Commitments related to avoiding the use of risky design practices for the design bases; per internal corrective action. (MFN-10-269)
59.	T2.2.15-2, new ITAAC 17b2	Added new ITAACs to address BTP HICB-21 - Guidance on Digital Computer Real-Time Performance in general and specifically the section on Design Commitments related to avoiding the use of risky design practices for as-built; per internal corrective action. (MFN-10-269)

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60.	T2.2.15-2, ITAAC 18b	<p>Changed ITA: “Tests will be performed using simulated signals and actuators to demonstrate that the as-built software projects have main control room features that manually initiate and control the automatically initiated safety-related functions at the division level.” Changed AC: “The as-built software projects using simulated signals and actuators show that the main control room features manually initiate and control the automatically initiated safety-related functions at the division level.”</p> <p>(RAI 14.3-345 S01, MFN-10-157)</p>
61.	T2.2.15-2, ITAAC 19b	<p>Changed ITA: “Inspection will be performed to confirm that the sense and command feature inputs for the as-built software project are derived from signals that are direct measures of the desired variables specified in the design bases.” Changed AC: “The sense and command feature inputs for the as-built software project are derived from signals that are direct measures of the desired variables specified in the design bases.” (RAI 14.3-345 S01, MFN-10-157)</p>
62.	T2.2.15-2, ITAAC 20b1	<p>Changed ITA: “Tests will be performed to demonstrate that the software projects automatically prevent the activation of an operating bypass, whenever the applicable permissive conditions for an operating bypass are not met.” Changed AC: “The software projects automatically prevent the activation of an operating bypass, whenever the applicable permissive conditions for an operating bypass are not met.”</p> <p>(RAI 14.3-345 S01, MFN-10-157)</p>

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63.	T2.2.15-2, ITAAC 20b2	Changed ITA: “Tests will be performed to demonstrate that the as-built software projects automatically remove activated operating bypasses, if the plant conditions change so that an activated operating bypass is no longer permissible.” Changed AC: “The as-built software projects automatically remove activated operating bypasses, if the plant conditions change so that an activated operating bypass is no longer permissible.” (RAI 14.3-345 S01, MFN-10-157)
64.	T2.2.15-2, ITAAC 21b1	Changed ITA: “Tests will be performed to demonstrate that the software projects perform their safety-related functions, when one division is in maintenance bypass.” Changed AC: “The as-built software projects perform their safety-related functions, when one division is in maintenance bypass.” (RAI 14.3-345 S01, MFN-10-157)
65.	T2.2.15-2, ITAAC 21.b.2	Changed ITA: “Tests will be performed to demonstrate that the software projects perform their safety-related functions, when one power supply division is in maintenance bypass.” Changed AC: “The as-built software projects perform their safety-related functions, when one power supply division is in maintenance bypass.” (RAI 14.3-345 S01, MFN-10-157)

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66.	T2.2.15-2, ITAAC 22b	<p>Changed ITA: “Inspection of the installation phase setpoint analyses for the as-built software projects will be performed to verify that the setpoints for safety-related functions are defined, determined and implemented based on a defined setpoint methodology and to ensure that changes have been reconciled.”</p> <p>Changed AC: “The installation phase setpoints for safety-related functions for the as-built software projects are defined, determined and implemented using a defined setpoint methodology and changes have been reconciled.” (RAI 14.3-345 S01, MFN-10-157)</p>
67.	T2.2.15-2, ITAAC 23a, 23b, 24a, 24b	<p>Clarified Design Commitment title for Electrical and Non-electrical Power Source Requirements and aligned them with the Design Description. (MFN 10-280 S02)</p>
68.	T2.2.15-2, ITAAC 23b	<p>Changed ITA: “Tests will be performed on the as-built software project’s as-built electrical components by providing test signals in only one safety-related division at a time to verify that the components receive power from their respective, divisional, safety-related power supplies.”</p> <p>Changed AC: “The as-built software project’s as-built electrical components received test signals from a safety-related source in the same division, which verifies that the components receive power from their respective, divisional, safety-related power supplies.” (RAI 14.3-345 S01, MFN-10-157)</p> <p>Change superseded in MFN 10-269 and subsequently the sentence structure was corrected to remove the extraneous words “to verify that the components”.</p>

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69.	T2.2.15-2, ITAAC 24b	Changed ITA: “Tests will be performed on the as-built software project’s as-built mechanical installation of the as-built software project’s actuators to show that non-electric power is received from safety-related sources.” Changed AC: “The as-built software project’s actuators receive non-electric power from safety-related sources.” (RAI 14.3-345 S01, MFN-10-157)
70.	T2.3.1-2, item 2a	Changed “Inspections” to “Testing” in ITA column to address comment from NRC ITAAC Prioritization Protocol review. (MFN-10-280)
71.	S2.4.1, Design Description Item (15)	Revised description of the ICS isolation valve closure signals in response to RAI 6.2-202 S01. (MFN 10-044 S03) (RAI 14.3-345 S01, MFN-10-157)
72.	S2.4.1, Design Description Item (18)	Added ICS vent opening logic in response to RAI 6.2-202 S01. (MFN 10-044 S03)
73.	S2.4.1 item 19	Deleted ITAAC in response to RAI 6.2-202 S01. (MFN 10-044 S03)
74.	S2.4.1 item 30	Added ITAAC for ICS vent line orifice dimensions in response to RAI 6.2-202 S01. (MFN 10-044 S03)
75.	T2.4.1-1	Changed the characteristics of the Lower IC Header Vent Line Valves (V-9 and V-10) in response to RAI 6.2-202 S01. (8 rows changed) Added ICS vent line orifice characteristics in response to RAI 6.2-202 S01. (4 rows added) (MFN 10-044 S03)
76.	T2.4.1-2	Changed the characteristics of the Lower IC Header Vent Line valves (V-9 and V-10) in response to RAI 6.2-202 S01. (8 rows changed) (MFN 10-044 S03)
77.	T2.4.1-3, 2b3	Made referenced table consistent with design commitment. (MFN-10-280)

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78.	T2.4.1-3, Design Commitment 15	Revised description of the ICS isolation valve closure signals in response to RAI 6.2-202 S01. (MFN 10-044 S03)
79.	T2.4.1-3, Design Commitment 18	Added ICS vent opening logic in response to RAI 6.2-202 S01. (MFN 10-044 S03)
80.	T2.4.1-3 ITAAC 19	Deleted ITAAC in response to RAI 6.2-202 S01. (MFN 10-044 S03)
81.	T2.4.1-3 ITAAC 24	Added type test for squib valves and clarified that the pneumatic valves have an in-situ test. This is in response to NRC comment provided verbally on July 13, 2010. (RAI 6.2-202 S01) (MFN 10-044 S03)
82.	T2.4.1-3 ITAAC 30	Added ITAAC for ICS vent line orifice dimensions in response to RAI 6.2-202 S01. (MFN 10-044 S03)
83.	F2.4.1-1	Updated figure to show revised ICS venting in response to RAI 6.2-202 S01. (MFN 10-044 S03)
84.	S2.4.2	Changed text to match wording in corresponding design commitment. (MFN 10-280 S01)
85.	T2.4.2-2, GDCS Electrical Equipment; 6th,7th, 10th and 11th rows	Changed “Safety-Related Display” attribute for the GDCS lower drywell temperature switches from “Yes” to “No”. The temperature switch status (i.e.; open / close) will be indirectly monitored on the Deluge (BiMAC) sub-system nonsafety-related displays; per internal corrective action. (MFN 10-253 Rev 1)
86.	T2.6.1-2, Item 8b3	Changed ITAAC table reference to be consistent with the table reference in the Design Description/Commitment (MFN 10-280 S02)

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87.	S2.6.2, Design Description (11)	Changed to read that water level in the SFP after 72 hours remains above the top of the irradiated fuel assemblies, not just top of active fuel. (MFN 10-189)
88.	S2.6.2, Design Description (12)	Changed to read that water level in the buffer pool after 72 hours remains above the top of the irradiated fuel assemblies, not just top of active fuel. (MFN 10-189) (MFN 10-280 S01)
89.	S2.6.2, Design Description (14)	Changed to read that anti-siphon holes associated with lines in the SFP and buffer pool maintain water level above the top of the irradiated fuel assemblies, not just top of active fuel. (MFN 10-189)
90.	T2.6.2-2, Item 2b3	Changed Acceptance Criteria to the same as 2a3 to address comment from NRC ITAAC prioritization Protocol review. (MFN-10-280)
91.	T2.6.2-2, Item 4a	Changed Design Commitment to match the Design Description to address comment from NRC ITAAC Prioritization Protocol review. (MFN-10-280)
92.	T2.6.2-2, Design Commitment (11) and ITA (11)	Changed to read that water level in the SFP after 72 hours remains above the top of the irradiated fuel assemblies, not just top of active fuel. (MFN 10-189)
93.	T2.6.2-2, Acceptance Criteria (11)	Changed acceptance criteria value of free volume of water from 1690 m ³ (59681 ft ³) to 1760 m ³ (62200 ft ³) per input calculation revision. Changed to read that water level in the SFP after 72 hours remains above the top of the irradiated fuel assemblies, not just top of active fuel. (MFN 10-189)
94.	T2.6.2-2, Design Commitment (12) and ITA (12)	Changed to read that water level in the buffer pool after 72 hours remains above the top of the irradiated fuel assemblies, not just top of active fuel. (MFN 10-189)

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95.	T2.6.2-2, Acceptance Criteria (12)	Corrected conversion of 288 m ³ of water from 10,100 ft ³ to 10,200 ft ³ . Changed to read that water level in the buffer pool after 72 hours remains above the top of the irradiated fuel assemblies, not just top of active fuel. (MFN 10-189)
96.	T2.6.2-2, Design Commitment (14)	Changed to read that anti-siphon holes associated with lines in the SFP and buffer pool maintain water level above the top of the irradiated fuel assemblies, not just top of active fuel. (MFN 10-189)
97.	T2.6.2-2, Acceptance Criteria (14)	Clarified anti-siphon holes maintain water level in the SFP and buffer pool to a depth to protect bundles for a 72-hour loss of cooling, which is greater than safe-shielding depth. Therefore protected water inventory depth changed from 3.05 m (10.0 ft) to 9.20 m (30.2 ft). (MFN 10-189)
98.	S2.11.1, Item 8	Changed text to match wording in corresponding design commitment. (MFN 10-280 S01)
99.	S2.11.6, 1st Para.	Changed “AOO” to “Abnormal Events” to match the wording in Design Description Items 4, 5, and 7. (MFN 10-280 S02)
100.	T2.11.6-1. Item 7	Changed “AOO” in Design Commitment and ITA to “Abnormal Event” to match Design Description Item 7. (MFN 10-280 S02)
101.	T2.11.7-1, Items 1 & 2	Added “and analysis” to ITA to address comment from NRC ITAAC Prioritization Protocol review. (MFN-10-280).
102.	Table 2.13.3-3, 1	Changed table referenced by Design Commitment to be consistent with table referenced in Design Description and AC. (MFN 10-280 S02)

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Item	Location	Description of Change
103.	T2.13.5-2, 1	Added a reference to Table 2.13.5-1 to AC in order to be consistent with Design Commitment. (MFN 10-280 S02)
104.	T2.15.1-1a	Deleted Isolation Condenser lower header vent valves as containment isolation valves in response to RAI 6.2-202 S01. (MFN 10-044 S03)
105.	T2.15.1-1d	Deleted Isolation Condenser lower header vent valves as containment isolation valves in response to RAI 6.2-202 S01. (MFN 10-044 S03)
106.	S2.15.4, new Design Description Item (15)	Added ITAAC for PCCS vent line catalyst in response to RAI 6.2-202 S01. (MFN 10-044 S03)
107.	S2.15.4, new Design Description Item (16)	Added ITAAC for PCCS vent line catalyst performance in response to RAI 6.2-202 S01. (MFN 10-044 S03)
108.	T2.15.4-1, 5 th row	Changed the PCCS vent fan check valve to a vent fan isolation valve per response to RAI 6.2-202 S01. (MFN 10-044 S03)
109.	T2.15.4-1	Added new row 11, PCCS Vent Catalyst Module in response to RAI 6.2-202 S01. (MFN 10-044 S03)
110.	T2.15.4-2, Item 2b3	Changed ITAAC table references to be consistent with the tables reference in the Design Description Commitment, (MFN 10-280 S02)

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Item	Location	Description of Change
111.	T2.15.4-2, Acceptance Criterion 7	Changed PCC unit heat removal capacity per response to RAI 6.2-202 S01. (MFN 10-044 S03). Acceptance Criteria now reads: “Analyzed containment pressure for 72 hours after a LOCA is less than containment design pressure, and the PCC unit heat removal capacity exceeds heat removal calculated in the design basis accident analysis following reactor depressurization below containment design pressure.”
112.	T2.15.4-2 ITAAC 12	Added functioning of the PCCS vent fan isolation valve to the acceptance criterion in response to RAI 6.2-202 S01. (MFN 10-044 S03)
113.	T2.15.4-2, Design Commitment 15	Added ITAAC for PCCS vent line catalyst in response to RAI 6.2-202 S01. (MFN 10-044 S03)
114.	T2.15.4-2, Design Commitment 16	Added ITAAC for PCCS vent line catalyst performance in response to RAI 6.2-202 S01. (MFN 10-044 S03)
115.	F2.15.4-1	Updated figure to show the current vent fan configuration in response to RAI 6.2-202 S01. (MFN 10-044 S03)
116.	S2.16.2.7, Item 5	Removed “adjacent” to be consistent with Design Commitment in ITAAC 5.
117.	T2.16.2-2	Added “laboratory and” to ITAAC #12.b Acceptance Criteria. (MFN 10-155)
118.	T2.16.2-4, Item 8	Changed “Inspections” to “Testing” in ITA column to address comment from NRC ITAAC Prioritization Protocol review (MFN-10-280)
119.	S2.16.3	Added Item #9 to address seismic II/I and RTNSS B concern. (MFN 10-292)

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Item	Location	Description of Change
120.	T2.16.3-2	Added ITAAC # 9 to address seismic II/I and RTNSS B concern. (MFN 10-292)
121.	S2.16.5, Design Description, 2 nd para., last sentence	Revised to reflect scope includes overpressure protection devices associated with overpressure of fuel pool areas in addition to overpressure due to high energy line breaks as approved by Engineering Change. (MFN 08-273 S01)
122.	S2.16.5., Design Description (9) a and (9) b	Revised to reflect scope for a) overpressure due to high energy line breaks and b) overpressure protection devices associated with overpressure of fuel pool areas as approved by Engineering change. (MFN 08-273 S01)
123.	S2.16.5, Design Description (14) and (15)	Added Items 14 and 15 to address seismic II/I and RTNSS B concern. (MFN 10-292)
124.	T2.16.5-2 (6)	Added bullet to acceptance criteria to align with design commitment bullets. (MFN 10-280 S01)
125.	T2.16.5-2 (9) a and (9) b	Revised to reflect scope for a) overpressure due to high energy line breaks and b) overpressure protection devices associated with overpressure of fuel pool areas as approved by Engineering Change. (MFN 08-273 S01)
126.	T2.16.5-2 (14) and (15)	Added ITAAC 14 and 15 to address seismic II/I and RTNSS B concern. (MFN 10-292)
127.	S2.16.6 (8) and (9)	Added items 8 and 9 to address seismic II/I and RTNSS B concern. (MFN 10-292)
128.	T2.16.6-2 (8) and (9)	Added ITAAC 8 and 9 to address seismic II/I and RTNSS B concern. (MFN 10-292)

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Item	Location	Description of Change
129.	S2.16.7, Design Description (9)	Clarified that the gates that connect the SFP to adjacent pools are designed to Seismic Category I requirements. (MFN 10-189)
130.	S2.16.7, Design Description (10)	Added item for FB overpressure protection devices associated with spent fuel pool boiling as approved by Engineering Change. (MFN 08-273 S01)
131.	T2.16.7-2, Design Commitment (9) and Acceptance Criteria (9)	Clarified that the gates that connect the SFP to adjacent pools are designed to Seismic Category I requirements. (MFN 10-189)
132.	T2.16.7-2, Design Commitment (10), Inspections, Test, Analysis (10) and Acceptance Criteria (10)	Added item for FB overpressure protection devices associated with spent fuel pool boiling as approved by Engineering Change. (MFN 08-273 S01)
133.	S2.16.7 Design Description (11) and (12)	Added items 11 and 12 to address seismic II/I and RTNSS B concern. (MFN 10-292)
134.	T2.16.7-2 ITAAC (11) and (12)	Added ITAAC 11 and 12 to address seismic II/I and RTNSS B concern. (MFN 10-292)
135.	S2.16.11 Design Description (7)	Added item 7 to address seismic II/I and RTNSS B concern. (MFN 10-292)
136.	T2.16.11-1 ITAAC (7)	Added ITAAC 7 to address seismic II/I and RTNSS B concern. (MFN 10-292)
137.	S2.19.1	Editorial change to clean up numbering of ITAAC. (MFN 10-280 S01) [[There are no rev. bars on this section.]]
138.	T2.19-1	Editorial change to clean up numbering of ITAAC. (MFN 10-280 S01)

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Item	Location	Description of Change
139.	S3.2 item 1a9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
140.	S3.2 item 1b9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
141.	S3.2 item 1c9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
142.	S3.2 item 1d9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
143.	S3.2 item 1e9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
144.	S3.2 item 1f9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
145.	S3.2 item 1g9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
146.	S3.2 item 1h9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
147.	S3.2 item 1i9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
148.	S3.2 item 1j9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)

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Item	Location	Description of Change
149.	S3.2 item 1k9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
150.	S3.2 item 1l9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
151.	S3.2 item 2a9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
152.	S3.2 item 2b9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
153.	S3.2 item 2c9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
154.	S3.2 item 2d9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
155.	S3.2 item 2e9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
156.	S3.2 item 3r1	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
157.	S3.2 item 3r2	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
158.	S3.2 item 3r3	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)

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Item	Location	Description of Change
159.	S3.2 item 3s1	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
160.	S3.2 item 3s2	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
161.	T3.2-1 ITAAC 3a1, 3b1, 3c1	Deleted in AC: "Installation Phase Summary BRR(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
162.	T3.2-1 ITAAC 3a2	Deleted in AC: "RTIF FAT report(s) exist and concludes that the". (RAI 14.3-345 S01, MFN-10-157)
163.	T3.2-1 ITAAC 3a3	Deleted in AC: "RTIF cyber security FAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
164.	T3.2-1 ITAAC 3b2	Deleted in AC: "NMS FAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
165.	T3.2-1 ITAAC 3b3	Deleted in AC: "NMS cyber security FAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
166.	T3.2-1 ITAAC 3c2	Deleted in AC: "SSLC/ESF FAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157).
167.	T3.2-1 ITAAC 3c3	Deleted in AC: "SSLC/ESF cyber security FAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
168.	T3.2-1 ITAAC 3d1	Deleted in AC: "Installation Phase Summary BRR(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)

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Item	Location	Description of Change
169.	T3.2-1 ITAAC 3d2	Deleted in AC: “ATWS/SLC FAT report exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
170.	T3.2-1 ITAAC 3d3	Deleted in AC: “ATWS/SLC cyber security FAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
171.	T3.2-1 ITAAC 3e1	Deleted in AC: “Installation Phase Summary BRR(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
172.	T3.2-1 ITAAC 3e2	Deleted in AC: “VBIF FAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157).
173.	T3.2-1 ITAAC 3e3	Deleted in AC: “VBIF cyber security FAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
174.	T3.2-1 ITAAC 3f1	Deleted in AC: “Installation Phase Summary BRR(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
175.	T3.2-1 ITAAC 3f2	Deleted in AC: “GENE DPS FAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
176.	T3.2-1 ITAAC 3f3	Deleted in AC: “GENE DPS cyber security FAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
177.	T3.2-1 ITAAC 3g1	Deleted in AC: “Installation Phase Summary BRR(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
178.	T3.2-1 ITAAC 3g2	Deleted in AC: “PIP FAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)

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Item	Location	Description of Change
179.	T3.2-1 ITAAC 3g3	Deleted in AC: "PIP cyber security FAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
180.	T3.2-1 ITAAC 3h1	Deleted in AC: "Installation Phase Summary BRR(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
181.	T3.2-1 ITAAC 3h2	Deleted in AC: "HP CRD Isolation Bypass Function FAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
182.	T3.2-1 ITAAC 3h3	Deleted in AC: "HP CRD Isolation Bypass Function cyber security FAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
183.	T3.2-1 ITAAC 3i	Deleted in AC: "The Installation Phase Summary BRR for the complete ESBWR instrumentation and control system SAT exists and concludes that". (RAI 14.3-345 S01, MFN-10-157)
184.	T3.2-1 ITAAC 3j1	Deleted in AC: "RTIF cyber security SAT report(s) exist and conclude that". (RAI 14.3-345 S01, MFN-10-157)
185.	T3.2-1 ITAAC 3j2	Deleted in AC: "RTIF cyber security SAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
186.	T3.2-1 ITAAC 3k1	Deleted in AC: "NMS SAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)
187.	T3.2-1 ITAAC 3k2	Deleted in AC: "NMS cyber security SAT report(s) exist and conclude that the". (RAI 14.3-345 S01, MFN-10-157)

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Item	Location	Description of Change
188.	T3.2-1 ITAAC 3i1	Deleted in AC: “SSLC/ESF SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
189.	T3.2-1 ITAAC 3i2	Deleted in AC: “SSLC/ESF cyber security SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
190.	T3.2-1 ITAAC 3m1	Deleted in AC: “ATWS/SLC SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
191.	T3.2-1 ITAAC 3m2	Deleted in AC: “ATWS/SLC cyber security SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
192.	T3.2-1 ITAAC 3n1	Deleted in AC: “VBIF SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
193.	T3.2-1 ITAAC 3n2	Deleted in AC: “VBIF cyber security SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
194.	T3.2-1 ITAAC 3o1	Deleted in AC: “GENE DPS SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
195.	T3.2-1 ITAAC 3o2	Deleted in AC: “GENE DPS cyber security SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
196.	T3.2-1 ITAAC 3p1	Deleted in AC: “PIP SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)
197.	T3.2-1 ITAAC 3p2	Deleted in AC: “PIP cyber security SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157)

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Item	Location	Description of Change
198.	T3.2-1 ITAAC 3q1	Deleted in AC: “HP CRD Isolation Bypass Function SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157).
199.	T3.2-1 ITAAC 3q2	Deleted in AC: “HP CRD Isolation Bypass Function cyber security SAT report(s) exist and conclude that the”. (RAI 14.3-345 S01, MFN-10-157).
200.	T3.2-1 ITAAC 1a9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
201.	T3.2-1 ITAAC 1b9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
202.	T3.2-1 ITAAC 1c9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
203.	T3.2-1 ITAAC 1d9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
204.	T3.2-1 ITAAC 1e9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
205.	T3.2-1 ITAAC 1f9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
206.	T3.2-1 ITAAC 1g9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
207.	T3.2-1 ITAAC 1h9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)

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Item	Location	Description of Change
208.	T3.2-1 ITAAC 1i9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
209.	T3.2-1 ITAAC 1j9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
210.	T3.2-1 ITAAC 1k9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
211.	T3.2-1 ITAAC 1l9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
212.	T3.2-1 ITAAC 2a9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
213.	T3.2-1 ITAAC 2b9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
214.	T3.2-1 ITAAC 2c9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
215.	T3.2-1 ITAAC 2d9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
216.	T3.2-1 ITAAC 2e9	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
217.	T3.2-1 ITAAC 3r1	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)

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Item	Location	Description of Change
218.	T3.2-1 ITAAC 3r2	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
219.	T3.2-1 ITAAC 3r3	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
220.	T3.2-1 ITAAC 3s1	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
221.	T3.2-1 ITAAC 3s2	Added ITAAC for ICS DPV Isolation Function software projects in response to RAI 6.2-202 S01. (MFN 10-044 S03)
222.	S3.3	Deleted design requirement (7) and (8). (MFN 10-260)
223.	T3.3.2	Deleted ITAAC rows 7 and 8. (MFN 10-260)
224.	S3.4	Revised design description in response to RAI 14.3-174 S01 (MFN 10-178)
225.	T3.4-1 ITAAC 4a and 4b	Deleted ITAAC in response to RAI 14.3-174 S01 (MFN 10-178)
226.	T3.8-1	Revised in response to RAI 6.2-202 S01 (MFN 10-044 S03)
227.	T3.8-1 PCCS Entries	Changed vent fan check valves to vent fan isolation valves in response to RAI 6.2-202 S01. (MFN 10-044 S03)
228.	T3.8-1 PCCS Entries	Added vent line catalyst module in response to RAI 6.2-202 S01. (MFN 10-044 S03)

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Item	Location	Description of Change
229.	T5.1-1, Soil Properties	Deleted "multiplied by a factor of safety appropriate for the design load combination" in the descriptions for the Minimum Static Bearing Capacity and Minimum Dynamic Bearing Capacity. (MFN 10-291)
230.	T5.1-1, Note (2)	Deleted "The static bearing pressure is the average pressure." Deleted "multiplied by a factor of safety appropriate for the design load combination and is" in the fourth and fifth sentences and inserted ", which is obtained by dividing the ultimate soil bearing capacity by a factor of safety appropriate for the design load combination" at the end of those two sentences. (MFN 10-291 Rev 1)
231.	T5.1-1, Extreme wind	Inserted reference to new Note (8). (MFN 10-253) (MFN 253 Rev 1)
232.	T5.1-1, Note (8)	Added new note as follows: "(8) Value was selected to comply with expected requirements of southeastern coastal locations, which includes the consideration of hurricanes as described in ASCE 7-02. This wind speed is considered to be at 10 m (33 ft) above ground per ASCE 7-02. Seismic Category NS buildings that house RTNSS equipment are designed to withstand hurricane Category 5 wind velocity at 87.2 m/s (195 mph), 3-second gust, and missiles generated by that wind velocity." (MFN 10-253) (MFN 10-253 Rev 1)