

ArevaEPRDCPEm Resource

From: WELLS Russell D (AREVA NP INC) [Russell.Wells@areva.com]
Sent: Friday, February 06, 2009 12:51 PM
To: Getachew Tesfaye
Cc: Pederson Ronda M (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); SLIVA Dana (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 156, FSAR Ch 14
Attachments: RAI 156 Response US EPR DC.pdf

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 156 Response US EPR DC.pdf" provides technically correct and complete responses to 5 of the 7 questions.

Appended to this file are affected pages of the U.S. EPR Final Safety Analysis Report in redline-strikeout format which support the response to RAI 156 Question 14.03.03-26.

The following table indicates the respective pages in the response document, "RAI 156 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 156 — 14.03.03-25	2	3
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A complete answer is not provided for 2 of the 7 questions. The schedule for a technically correct and complete response to this question is provided below.

Question #	Response Date
RAI 156 — 14.03.03-27	April 30, 2009
RAI 156 — 14.03.03-28	April 30, 2009

Sincerely,

(Russ Wells on behalf of)

Ronda Pederson

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Licensing Manager, U.S. EPR Design Certification

New Plants Deployment

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From: Getachew Tesfaye [mailto:Getachew.Tesfaye@nrc.gov]

Sent: Thursday, January 08, 2009 12:52 PM

To: ZZ-DL-A-USEPR-DL

Cc: Ching Ng; Jennifer Dixon-Herrity; Anthony Hsia; Michael Miernicki; Joseph Colaccino; ArevaEPRDCPEm Resource

Subject: U.S. EPR Design Certification Application RAI No. 156 (1768), FSARCh. 14

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on December 12, 2008, and discussed with your staff on January 6, 2009. No changes were made to the Draft RAI Questions as a result of that discussion. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

Thanks,
Getachew Tesfaye
Sr. Project Manager
NRO/DNRL/NARP
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Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 203

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Subject: Response to U.S. EPR Design Certification Application RAI No. 156, FSAR Ch 14
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Response to

Request for Additional Information No. 156 (1768), Revision 0

01/08/2009

U. S. EPR Standard Design Certification

AREVA NP Inc.

Docket No. 52-020

**SRP Section: 14.03.03 - Piping Systems and Components - Inspections, Tests,
Analyses, and Acceptance Criteria**

Application FSAR Section: 14.3.3

**QUESTIONS for Engineering Mechanics Branch 2 (ESBWR/ABWR Projects)
(EMB2)**

Question 14.03.03-25:

In the EPR FSAR Tier 1 and Tier 2 documents, the applicant indicates that the design for ASME Code Class 1, 2, 3 piping systems has not been completed. Specifically, in Tier 2, Table 1.8-2, Item No. 3.12-2, the applicant states that a COL Holder that references the EPR design certificate will perform piping and support stress analysis. In order for the staff to reach a reasonable assurance finding based on the requirements of 10 CFR 52.47, certain information is required during the NRC review of the design certification application. According to SRP 14.3 Appendix A, Design Certificate applicants may provide less than the complete design information for piping before Design Certificate because the design may depend upon as-built and as-procured information. Instead, the applicants should provide the design related process and associated design acceptance criteria (DAC) in the DCD Tier 1 that a COL applicant would follow to complete the design.

The staff requests AREVA to provide design detail for ASME Code Class 1, 2, 3 piping systems. If such design detail is not available, AREVA is requested to provide the design related processes, schedule to complete the design of piping systems available for NRC audit, and associated DAC in Tier 1.

Response to Question 14.03.03-25:

U.S. EPR FSAR Tier 1 provides "design ITAAC" for ASME Code Section III, Class 1, 2, and 3 piping systems. An example of a piping design ITAAC is U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.4. U.S. EPR FSAR Tier 1 piping design ITAAC were revised in the Response to RAI 148, Question 14.03.03-23. These piping design ITAAC identify the specific portions of the piping systems (by reference to the appropriate U.S. EPR FSAR Tier 1 figure) to which the design ITAAC apply.

Detailed discussions of the piping design methodologies to be used are provided in U.S. EPR FSAR Tier 2, Chapter 3 and in ANP-10264NP, "U.S. EPR Piping Analysis and Pipe Support Design Topical Report." Standard Review Plan (SRP) 14.3 provides guidance on piping design ITAAC:

- SRP 14.3 Appendix A, page 14.3-18 states, "Tier 2 contains detailed supporting information for various inspections, tests, and analyses that can, and should be, used to verify the Tier 1 design information and satisfy the acceptance criteria. If questions on interpretation should arise, the material in Tier 2 provides the background material and context for Tier 1 information. Tier 2 contains information reviewed by the staff which is the basis for the staff's safety determination for the design."
- SRP 14.3 Appendix A, page 14.3-19 states, "Analyses are defined in the Introduction, and may refer to detailed supporting information in the DCD Tier 2, simple calculations, or comparisons with operating experience or design of similar SSCs. The details of the analysis method should be specified in either the ITAAC or Tier 2 (preferred). The ITAAC should not reference Tier 2, but Tier 2 may reference the appropriate ITAAC. For example, detailed analysis methods of seismic and environmental qualification supporting the general provisions in the Tier 1 Introduction are contained in Chapter 3 of Tier 2 and detailed piping design information supporting additional design material applicable to multiple sections of the design are also contained in Chapter 3."

- SRP 14.3, page 14.3-11 suggests that piping design methodologies could be designated as Tier 2* by the NRC, since Tier 2* “is generally considered for areas associated with detailed structural and equipment design ...and supporting material for the DAC areas of the design.”

The schedule for completion of the design ITAAC is the responsibility of the COL holder per 10 CFR 52, Subpart C. The requirement for this schedule information is addressed in 10 CFR 52.99(a) that requires a COL holder to “submit to the NRC, no later than 1 year after issuance of the combined license or at the start of construction as defined in 10 CFR 50.10(a), whichever is later, its schedule for completing the inspections, tests, or analyses in the ITAAC.”

FSAR Impact:

The U.S. EPR FSAR will not be changed as a result of this question.

Question 14.03.03-26:

a) Components Design Reports

For components designated as ASME Code Section III, the Acceptance Criteria (AC) of item 3.1 of Table 2.2.1-5 states that a report exists and concludes that the components have been designed and hydrostatically tested in accordance with ASME Section III requirements. In the Inspection, Test, or Analysis (ITA) column, "Inspections will be conducted of ASME design, NDE, and hydrostatic test reports for components." However, the criterion in AC is only "a report exists and concludes..." It is not clear to the staff that what type of report and how many reports shall exist. The staff reviewed Tier 1 and Tier 2 information but the applicant did not identify what the particular reports are or the contents of the reports. SRP 14.3.3 indicates that an acceptable version of an ASME Code certified stress report is the design document required by ASME Code Section III, Subarticle NCA-3550. A certified design report provides assurance that requirements of ASME Code, Section III for design have been met and that the design complies with the design specifications.

The staff requests the applicant the revised the AC and ITA to identify the certified Design Report as discussed in Subarticle NCA-3550 or other appropriate design documents. This question is also applicable to Tier 1, Sections 2.2.2, 2.2.3, 2.2.3, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.3.3, 2.5.4, 2.6.8, 2.7.1, 2.7.2, 2.7.5, 2.7.11, 2.8.2, 2.8.6, 2.8.7, and 3.5.3.

b) Components as-built ITACC

As described in SRP 14.3.3, Piping Systems and Components – ITAAC, one ITAAC item that should be included is to require that a report exists and documents the result of an as-built reconciliation analysis confirming the components have been built in accordance with the ASME Code certified stress reports. In EPR FSAR Tier 1 Table 2.2.1-5, an ITAAC for as-built reconciliation is not included.

The staff requests the applicant to include an ITAAC to reflect that an analysis will be performed to reconcile the as-built condition of the components with approved design documents. Corresponding addition to Tier 1 section 2.2.1 under subsection 3.0 should also be made. This question is also applicable to Tier 1, Sections 2.2.2, 2.2.3, 2.2.3, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.3.3, 2.5.4, 2.6.8, 2.7.1, 2.7.2, 2.7.5, 2.7.11, 2.8.2, 2.8.6, 2.8.7, and 3.5.3.

c) Components Fabrication Installation ITAAC

For components designated as ASME Code Section III, SRP 14.3.3 identifies that a certified report provides assurance that requirements of the ASME Code, Section III for fabrication, installation, and examination have been met. In EPR FSAR Tier 1 Table 2.2.1-5, an ITAAC for fabrication and installation of components is not included.

The staff requests the applicant to include an ITAAC to reflect that an inspection of the components will be conducted. Corresponding addition to section 2.2.1 under subsection 3.0 should also be made. This question is also applicable to Tier 1, Sections 2.2.2, 2.2.3, 2.2.3, 2.2.5, 2.2.6, 2.2.7, 2.2.8, 2.3.3, 2.5.4, 2.6.8, 2.7.1, 2.7.2, 2.7.5, 2.7.11, 2.8.2, 2.8.6, 2.8.7, and 3.5.3.

Response to Question 14.03.03-26:

- a) U.S. EPR FSAR ITAAC were revised in the Response to RAI 148, Question 14.03.03-23. U.S. EPR FSAR ITAAC listed in Table 14.03.03-26-1 will be revised to reference ASME Code Section III Design Reports (NCA-3550) in the Acceptance Criteria column. NCA-3550 addresses the ASME Code Section III Design Report documentation and not the performance of the analyses, so NCA-3550 is referenced only in the Acceptance Criteria column and not in the Analysis column.
- b) As-built reconciliation analyses are part of the process to develop ASME Code Section III Design Reports (NCA-3550), so no as-built reconciliation ITAAC are necessary for ASME Code Section III components.
- c) Standard Review Plan (SRP) 14.3 provides guidance on welding and hydrostatically testing of ASME Code Section III components to verify pressure boundary integrity. U.S. EPR FSAR Tier 1 contains ITAAC for component welding and hydrostatic testing, such as U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.1. The proper installation of ASME Code Section III components is covered by the system piping ASME Code Section III ITAAC for welding and hydrostatic testing the entire system, such as U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.4.

FSAR Impact:

U.S. EPR FSAR Tier 1, Chapter 2 and Chapter 3 will be revised as described in the response and indicated on the enclosed markup.

Table 14.03.03-26-1—ITAAC Related to ASME Code Section III Equipment

U.S. EPR FSAR Tier 1 Section	ITAAC number for ASME III components
2.2.1	3.1
2.2.2	3.1
2.2.3	3.1
2.2.4	3.1
2.2.5	3.1
2.2.6	3.1
2.2.7	3.1
2.2.8	3.1
2.3.3	3.1
2.5.4	3.1
2.6.8	3.1
2.7.1	3.1
2.7.2	3.1
2.7.5	3.1
2.7.11	3.1
2.8.2	3.1
2.8.6	3.1
2.8.7	3.1
3.5	3.1

Question 14.03.03-27:

a) Piping design reports

For piping designated as ASME Code Section III, the ITA of item 3.4a of Table 2.2.1-5 states that an analysis of the as-designed piping will be performed in accordance with ASME Code Section III requirement for piping indicated on Figure 2.2.1-1. The AC column states that the ASME Code Section III stress reports exist and conclude that the as-design piping meets ASME Code Section III requirements.

(i) In the ITA column, an inspection of the ASME Code Design Report, as oppose to an analysis, should be conducted. This will bring consistency between this ITAAC and the components as-design ITAAC in item 3.1 of Table 2.2.1-5.

(ii) In the AC column, it is not clear to the staff that what type of reports shall exist. The staff reviewed Tier 1 and Tier 2 information but the applicant did not identify what the particular reports are or the contents of the reports. SRP 14.3.3 indicates that an acceptable version of an ASME Code certified stress report is the design document required by ASME Code Section III, Subarticle NCA-3550. A certified design report provides assurance that requirements of ASME Code, Section III for design have been met and that the design complies with the design specifications.

The staff requests the applicant to revise the AC and ITA to identify the certified Design Report as discussed in Subarticle NCA-3550 or other appropriate design documents. These two questions are also applicable to Tier 1, Sections 2.2.2, 2.2.3, 2.2.3, 2.2.5, 2.2.6, 2.2.7, 2.3.3, 2.5.4, 2.7.1, 2.7.2, 2.7.11, 2.8.2, 2.8.6, 2.8.7, and 3.5.3.

b) Piping as-built ITAAC

As described in SRP 14.3.3, one ITAAC item that should be included is to require that a report exists and documents the result of an as-built reconciliation analysis confirming the final piping systems have been built in accordance with the ASME Code certified stress reports. In EPR FSAR Tier 1 Table 2.2.1-5, an ITAAC for as-built reconciliation is not included.

The staff requests the applicant to include an ITAAC to reflect that an analysis will be performed to reconcile the as-built condition of the piping system with approved design documents. Corresponding addition to section 2.2.1 under subsection 3.0 should also be made. This question is also applicable to Tier 1, Sections 2.2.2, 2.2.3, 2.2.3, 2.2.5, 2.2.6, 2.2.7, 2.3.3, 2.5.4, 2.7.1, 2.7.2, 2.7.11, 2.8.2, 2.8.6, 2.8.7, and 3.5.3.

c) Piping Fabrication Installation ITAAC

For piping designated as ASME Code Section III, SRP 14.3.3 identifies that a certified report provides assurance that requirements of the ASME Code, Section III for fabrication, installation, and examination have been met. In EPR FSAR Tier 1 Table 2.2.1-5, an ITAAC for fabrication and installation of piping is not included.

The staff requests the applicant to include an ITAAC to reflect that an inspection of the piping will be conducted. Corresponding addition to section 2.2.1 under subsection 3.0 should also be

made. This question is also applicable to Tier 1, Sections 2.2.2, 2.2.3, 2.2.3, 2.2.5, 2.2.6, 2.2.7, 2.3.3, 2.5.4, 2.7.1, 2.7.2, 2.7.11, 2.8.2, 2.8.6, 2.8.7, and 3.5.3.

d) Piping Support as-built ITAAC

As described in SRP 14.3.3, one ITAAC item that should be included is requiring that a report exists and documents the result of an as-built reconciliation analysis confirming the piping supports have been built in accordance with the ASME Code certified stress reports. In EPR FSAR Tier 1 Table 2.2.1-5, an ITAAC for as-built reconciliation is not included.

The staff requests the applicant to provide an ITAAC to reflect that an analysis will be performed to reconcile the as-built condition of the piping supports with approved design documents. Corresponding addition to section 2.2.1 under subsection 3.0 should also be made. This question is also applicable to Tier 1, Sections 2.2.2, 2.2.3, 2.2.3, 2.2.5, 2.2.6, 2.2.7, 2.3.3, 2.5.4, 2.7.1, 2.7.2, 2.7.11, 2.8.2, 2.8.6, and 2.8.7.

Response to Question 14.03.03-27:

A response to this question will be provided by April 30, 2009.

Question 14.03.03-28:

In EPR FSAR Tier 1, Section 3.5-3, the applicant identifies that piping in Figure 3.5-1 as ASME Code Section III will be designed, welded, and tested in accordance with ASME Code Section III. In Table 3.5-3, associated ITAAC entries are listed also. However, the applicant does not provide any ITAAC for piping supports, shown as ASME Code Section III, of Figure 3.5-1.

The staff requests the applicant to include ITAAC entries for piping supports, shown as ASME Code Section III, of Figure 3.5-1 or provide justification for not including any ITAAC. Corresponding changes to Tier 1 Section 3.5 under item 3.0 should also be made.

Response to Question 14.03.03-28:

A response to this question will be provided by April 30, 2009.

Question 14.03.03-29:

In EPR FSAR Tier 2, Section 14.3.2, the applicant indicates that the process to select Tier 1 information is based on equipment classification. Examples of equipment selection criteria include ASME BPV Code Section III, Seismic Category (SC)I, and IEEE Class 1E.

- a) The Seismic Monitoring System is listed as Seismic Category (SC) I in Tier 2 Table 3.2.2-1 (sheet 89 of 177). But in Tier 1, Section 2.4.7, there is no ITAAC that addresses the Design Commitment of equipment identified as Seismic Category I can withstand a design basis seismic load without loss of function. The staff requests the applicant to provide an ITAAC for SC I equipment or justification for not including an ITAAC.
- b) The High Range Dose Rate Monitors in Radiation Monitoring System are listed as Seismic Category I in Tier 2 Table 3.2.2-1 (sheet 88 of 177). But in Tier 1, Section 2.4.22, there is no ITAAC that addresses the Design Commitment that equipment identified as SC I can withstand a design basis seismic load without loss of function. The staff requests the applicant to provide an ITAAC for SC I equipment or justification for not including an ITAAC.

Response to Question 14.03.03-29:

- a) ITAAC are not included in U.S. EPR FSAR Tier 1 for the seismic monitoring system because this system is not safety-related and no safety-significant design features were identified in the review of the key safety and integrated plant safety analyses. As described in U.S. EPR FSAR Tier 2, Table 3.2.2-1, Comments column for the seismic monitoring system classifications, the classifications for this system are an "exception to [the] Criteria based on the seismic monitoring [being] required to be functional during and after a seismic event."
- b) The Response to RAI 43, Question 14.03.08-1a addresses ITAAC for the high range dose rate monitors and added ITAAC for safety-significant dose rate monitors.

FSAR Impact:

The U.S. EPR FSAR will not be changed as a result of this question.

Question 14.03.03.30:

In EPR FSAR Tier 1, Section 2.8.5, the applicant indicates that there are no Tier 1 ITAAC entries for the Condensate System. The staff recognizes that ITAAC for all containment isolation valves are addressed in Tier 1, Section 3.5 and the equipment tag numbers provided in Table 3.5-1 and 3.5-2 are informational only. However, in Tier 2, Table 3.2.2-1 (sheets 139-144 of 177), the applicant designates a few components (not containment isolation valves) of the Condensate System as either Seismic Category (SC) I or ASME Class 2. Examples include, Leak Test Valve(s) and Pressure Relief Valve(s). The staff requests the applicant to provide appropriate ITAAC for these SC I, or ASME Class 2 components or justification for not including any ITAAC for these components.

Response to Question 14.03.03.30:

Standard Review Plan (SRP) 14.3 provides guidance for plant features that should be addressed in U.S. EPR FSAR Tier 1. Generally, features covered in Tier 1 are significant in mitigating the events analyzed in Tier 2.

SRP 14.3 also contains guidance that features provided solely for equipment protection do not need to be addressed in Tier 1, which includes the condensate system relief valves, condensate system leak test valves, and Essential Service Water Pump Building ventilation system cooling coil isolation valves that do not mitigate analyzed events in U.S. EPR FSAR:

- SRP 14.3 Appendix C, Section I.B (Figures), Item ix states, "Figures for safety-related systems should include most of the valves on the DCD Tier 2 P&ID except for items such as: fill, drain, test tees and maintenance isolation valves."
- SRP 14.3 Appendix C, Figures Check List states, "Pneumatic and motor operated valves and check valves that perform "active" safety functions..."

FSAR Impact:

The U.S. EPR FSAR will not be changed as a result of this question.

Question 14.03.03-31:

In EPR FSAR Tier 1, Table 2.6.13-3 of the Essential Service Water Pump Building ventilation System, the applicant does not include any ITAAC for equipment listed as ASME Code Section III. In Tier 2, Table 3.2.2-1 (sheet 165 of 177), the Cooling Coil isolation valves are designated as ASME Class 3. The staff requests the applicant to provide appropriate ITAAC for the ASME Code Section III components or justification for not including any ITAAC for these components.

Response to Question 14.03.03-31:

See the Response to Question 14.03.03-30.

FSAR Impact:

The U.S. EPR FSAR will not be changed as a result of this question.

U.S. EPR Final Safety Analysis Report Markups

Table 2.2.1-5—RCS Inspections, Tests, Analyses, and Acceptance Criteria (6-8 Sheets)

14.03.03-26

Design Commitment <u>Wording</u>	Inspection, Test or Analysis	Acceptance Criteria
<p>3.1 The components designated as <u>Equipment listed in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, in Table 2.2.1-1 are</u> is <u>designed, welded, and hydrostatically tested in accordance with</u> to <u>ASME Code Section III requirements.</u></p>	<p>a. <u>Analysis of the equipment identified in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, will be performed per ASME Code Section III design requirements.</u></p> <p>b. <u>Inspections will be conducted</u> of <u>on the equipment identified in Table 2.2.1-1 as</u> ASME design, NDE, and hydrostatic test reports for the components listed as <u>ASME Code Section III in Table 2.2.1-1, other than RPV internals, to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>a. <u>ASME Code Section III Design A report Reports (NCA-3550) exists</u> and concludes that the components equipment listed as <u>equipment identified in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, in Table 2.2.1-1 have been designed and hydrostatically tested in accordance</u> meets <u>ASME Code Section III design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>Equipment identified in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>
<p>3.2 Check valves listed in Table 2.2.1-1 will function as listed in Table 2.2.1-1.</p>	<p>Tests will be performed for the operation of the check valves listed in Table 2.2.1-1.</p>	<p>The check valves listed in Table 2.2.1-1 perform the functions listed in Table 2.2.1-1.</p>
<p>3.3 Equipment identified as Seismic Category I in Table 2.2.1-1 can withstand a <u>seismic</u> design</p>	<p>a. Inspection will be performed of the equipment identified as <u>Seismic Category I in Table 2.2.1-1.</u></p>	<p>a. The equipment designated as <u>Seismic Category I in Table 2.2.1-1 is installed as designed.</u></p>

Table 2.2.2-3—IRWSTS Inspections, Tests, Analyses, and Acceptance Criteria (5-8 Sheets)

Commitment Wording		Inspection, Test or Analysis	Acceptance Criteria
2.1	The functional arrangement of the IRWSTS is as shown on Figure 2.2.2-1.	Inspections of the as-built system as shown on Figure 2.2.2-1 will be conducted.	The as-built IRWSTS conforms with the functional arrangement as shown in Figure 2.2.2-1.
2.2	The location of the IRWSTS equipment is as listed in Table 2.2.2-1.	An inspection will be performed of the location of the equipment listed in Table 2.2.2-1.	The equipment listed in Table 2.2.2-1 is located as listed in Table 2.2.2-1.
2.3	Physical separation exists between divisions of the IRWSTS.	An inspection will be performed to verify that the divisions of the IRWSTS are located in separate Safeguard Buildings.	The divisions of the IRWSTS are located in separate Safeguard Buildings. 14.03.03-26
3.1	The components designated as Table 2.2.2-1 as ASME Code Section III in Table 2.2.2-1 are <u>is designed, welded, and hydrostatically tested-</u> in accordance with ASME Code Section III requirements.	<p>a. <u>Analysis of the equipment identified in Table 2.2.2-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. <u>Inspections will be conducted on the equipment identified in Table 2.2.2-1 as of ASME design, NDE, and hydrostatic test reports for the components listed as ASME Code Section III to verify welding has been performed per ASME Code Section III welding requirements.</u> in Table 2.2.2-1.</p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.2.2-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>a. <u>ASME Code Section III Design Reports (NCA-3550) exist and conclude that the equipment identified in Table 2.2.2-1 as ASME Code Section III meets ASME Code Section III design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.2.2-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. The components listed as <u>Equipment identified in Table 2.2.2-1 as ASME Code Section III in Table 2.2.2-1 have</u> has been designed and hydrostatically tested in per accordance with ASME Code Section III <u>hydrostatic testing requirements.</u></p>

Table 2.2.3-3—SIS/RHRS Inspections, Tests, Analyses, and Acceptance Criteria (6-8 Sheets)

Commitment Wording		Inspection, Test or Analysis	Acceptance Criteria
2.1	The functional arrangement of the SIS/RHRS is as shown in Figure 2.2.3-1.	Inspections of the as-built system as shown on Figure 2.2.3-1 will be conducted.	The as-built SIS/RHRS conforms with the functional arrangement as shown in Figure 2.2.3-1.
2.2	The location of the SIS/RHRS equipment is as listed in Table 2.2.3-1.	An inspection will be performed of the location of the equipment listed in Table 2.2.3-1.	The equipment listed in Table 2.2.3-1 is located as listed in Table 2.2.3-1.
2.3	Physical separation exists between portions of the divisions of the SIS/RHRS.	An inspection will be performed to verify that portions of the divisions of the SIS/RHRS are located in separate Safeguard Buildings.	Portions of the divisions of the SIS/RHRS are located in separate Safeguard Buildings. 14.03.03-26
3.1	The components designated as <u>Equipment listed in Table 2.2.3-1 as ASME Code Section III</u> in Table 2.2.3-1 are <u>is designed, welded, and hydrostatically tested in accordance with</u> to <u>ASME Code Section III</u> requirements.	<p><u>a. Analysis of the equipment identified in Table 2.2.3-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p><u>b. Inspections will be conducted on the equipment identified in Table 2.2.3-1</u> as of ASME design, NDE and hydrostatic test reports for the components listed as <u>ASME Code Section III in Table 2.2.3-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p><u>c. Hydrostatic testing of the equipment identified in Table 2.2.3-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p><u>a. ASME Code Section III</u> Design Reports (NCA-3550) exist and conclude <u>that the equipment identified in Table 2.2.3-1 as ASME Code Section III meets ASME Code Section III design requirements.</u></p> <p><u>b. Equipment identified in Table 2.2.3-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p><u>c. The components listed as</u> <u>Equipment identified in Table 2.2.3-1 as ASME Code Section III</u> in Table 2.2.3-1 have <u>has</u> been designed and <u>hydrostatically tested in accordance with</u> <u>per ASME Code Section III hydrostatic testing requirements.</u></p>

Table 2.2.4-3 - EFWS Inspections, Tests, Analyses, and Acceptance Criteria (5-7 Sheets)

Commitment Wording		Inspection, Test or Analysis	Acceptance Criteria
2.1	The functional arrangement of the EFWS is as shown on Figure 2.2.4-1.	Inspections of the as-built system as shown on Figure 2.2.4-1 will be conducted.	The as-built EFWS conforms with the functional arrangement as shown in Figure 2.2.4-1.
2.2	The location of the EFWS equipment is as listed in Table 2.2.4-1.	An inspection will be performed of the location of the equipment listed in Table 2.2.4-1.	The equipment listed in Table 2.2.4-1 is located as listed in Table 2.2.4-1.
2.3	Physical separation exists between divisions of the EFWS.	An inspection will be performed to verify that the divisions of the EFWS are located in separate safeguard buildings.	The divisions of the EFWS are located in separate safeguard buildings. <div style="border: 1px solid red; padding: 2px; display: inline-block;">14.03.03-26</div> ↓
3.1	The components designated as Equipment listed in Table 2.2.4-1 as ASME Code Section III in Table 2.2.4-1 are is designed, welded, and hydrostatically tested to in accordance with ASME Code Section III requirements .	<p>a. <u>Analysis of the equipment identified in Table 2.2.4-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. Inspections will be conducted of ASME design, NDE, and hydrostatic test reports for the components listed on the equipment identified in Table 2.2.4-1 as ASME Section III in Table 2.2.4-1 to verify welding has been performed per ASME Code Section III welding requirements.</p> <p>c. Hydrostatic testing of the equipment identified in Table 2.2.4-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</p>	<p>a. <u>ASME Code Section III Design Reports (NCA-3550) exist and conclude that the equipment identified in Table 2.2.4-1 as ASME Code Section III meets ASME Code Section III design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.2.4-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. The components listed as Equipment identified in Table 2.2.4-1 as ASME Code Section III in Table 2.2.4-1 have has been designed and hydrostatically tested in accordance per ASME Code Section III hydrostatic testing requirements.</p>

Table 2.2.5-3—FPCPS Inspections, Tests, Analyses, and Acceptance Criteria (5-7 Sheets)

Commitment Wording		Inspection, Test or Analysis	Acceptance Criteria
2.1	The functional arrangement of the FPCPS is as shown on Figure 2.2.5-1.	Inspections of the as-built system as shown on Figure 2.2.5-1 will be conducted.	The as-built FPCPS conforms with the functional arrangement as shown in Figure 2.2.5-1.
2.2	The location of the FPCPS equipment is as listed in Table 2.2.5-1.	An inspection will be performed of the location of the equipment listed in Table 2.2.5-1.	The equipment listed in Table 2.2.5-1 is located as listed in Table 2.2.5-1.
2.3	Physical separation exists between divisions of the FPCPS.	An inspection will be performed to verify that the divisions of the FPCPS are provided adequate physical separation in the Fuel Building.	The divisions of the FPCPS are provided adequate separation in the Fuel Building. 14.03.03-26
3.1	The components designated as <u>Equipment listed in Table 2.2.5-1 as ASME Code Section III</u> in Table 2.2.5-1 are <u>is designed, welded, and hydrostatically tested in accordance with</u> to <u>ASME Code Section III requirements.</u>	<p><u>a. Analysis of the equipment identified in Table 2.2.5-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. Inspections will be conducted of ASME design, NDE and hydrostatic test reports for the components listed as on <u>the equipment identified in Table 2.2.5-1 as ASME Code Section III in Table 2.2.5-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p><u>c. Hydrostatic testing of the equipment identified in Table 2.2.5-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p><u>a. ASME Code Section III</u> Design Reports (NCA-3550) exist and conclude <u>that the equipment identified in Table 2.2.5-1 as ASME Code Section III meets ASME Code Section III design requirements.</u></p> <p><u>b. Equipment identified in Table 2.2.5-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. The components listed <u>Equipment identified in Table 2.2.5-1 as ASME Code Section III in Table 2.2.5-1 have</u> <u>has been designed and hydrostatically tested in accordance with</u> <u>per ASME Code Section III hydrostatic testing requirements.</u></p>

Table 2.2.6-3—CVCS Inspections, Tests, Analyses, and Acceptance Criteria (6-8 Sheets)

Commitment Wording		Inspection, Test or Analysis	Acceptance Criteria
2.1	The functional arrangement of the CVCS is as shown on Figure 2.2.6-1.	Inspections of the as-built system as shown on Figure 2.2.6-1 will be conducted	The as-built CVCS conforms with the functional arrangement as shown in Figure 2.2.6-1.
2.2	The location of the CVCS equipment is as listed in Table 2.2.6-1.	An inspection will be performed of the location of the equipment listed in Table 2.2.6-1.	The equipment listed in Table 2.2.6-1 is located as listed in Table 2.2.6-1. 14.03.03-26
3.1	The components designated as <u>Equipment listed in Table 2.2.6-1 as ASME Code Section III</u> in Table 2.2.6-1 are <u>designed, welded, and hydrostatically tested in accordance with</u> to <u>ASME Code Section III requirements.</u>	<p>a. <u>Analysis of the equipment identified in Table 2.2.6-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. <u>Inspections will be conducted on the equipment identified in Table 2.2.6-1 as ASME Code Section III to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.2.6-1</u> Inspections will be conducted of ASME design, NDE, and hydrostatic test reports for the components listed as ASME Code Section III in Table 2.2.6-1 will be performed per ASME Code Section III hydrostatic testing requirements.</p>	<p>a. <u>ASME Code Section III Design Reports (NCA-3550) exist and conclude that the equipment identified in Table 2.2.6-1 as ASME Code Section III meets ASME Code Section III design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.2.6-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. The components listed as <u>Equipment identified in Table 2.2.6-1 as ASME Code Section III</u> in Table 2.2.6-1 have <u>has been designed and hydrostatically tested in accordance with</u> per <u>ASME Code Section III hydrostatic testing requirements.</u></p>
3.2	Check valves listed in Table 2.2.6-1 will function as listed in Table 2.2.6-1.	Tests will be performed for the operation of the check valves listed in Table 2.2.6-1.	The check valves listed in Table 2.2.6-1 perform the functions listed in Table 2.2.6-1.

Table 2.2.7-3 - EBS Inspections, Tests, Analyses, and Acceptance Criteria (6-7 Sheets)

Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
2.1 The functional arrangement of the EBS is as shown on Figure 2.2.7-1.	Inspections of the as-built system as shown on Figure 2.2.7-1 will be conducted.	The as-built EBS conforms with the functional arrangement as shown in Figure 2.2.7-1.
2.2 The location of the EBS equipment is as listed in Table 2.2.7-1.	An inspection will be performed of the location of the equipment listed in Table 2.2.7-1.	The equipment listed in Table 2.2.7-1 is located as listed in Table 2.2.7-1.
2.3 Physical separation exists between divisions of the EBS.	An inspection will be performed to verify that the divisions of the EBS are provided adequate physical separation in the Fuel Building.	The divisions of the EBS are provided adequate physical separation in the Fuel Building. 14.03.03-26
3.1 The components designated <u>Equipment listed in Table 2.2.7-1</u> as ASME Code Section III in Table 2.2.7-1 are <u>is</u> designed, <u>welded, and hydrostatically tested in accordance with</u> to ASME Code Section III requirements .	<p><u>a. Analysis of the equipment identified in Table 2.2.7-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. Inspections will be conducted of ASME design, NDE, and hydrostatic test reports for the components listed on the equipment identified in Table 2.2.7-1 as ASME Code Section III in Table 2.2.7-1 to verify welding has been performed per ASME Code Section III welding requirements.</p> <p><u>c. Hydrostatic testing of the equipment identified in Table 2.2.7-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p><u>a. ASME Code Section III Design Reports (NCA-3550) exist and conclude that the equipment identified in Table 2.2.7-1 as ASME Code Section III meets ASME Code Section III design requirements.</u></p> <p><u>b. Equipment identified in Table 2.2.7-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>The components listed</u> Equipment identified in Table 2.2.7-1 as ASME Code Section III in Table 2.2.7-1 have <u>has</u> been designed and hydrostatically tested in accordance with <u>per</u> ASME Code Section III <u>hydrostatic testing</u> requirements.</p>

Table 2.2.8-2—FHS Inspections, Tests, Analyses, and Acceptance Criteria (2 Sheets)

Commitment Wording		Inspection, Test or Analysis	Acceptance Criteria
2.1	Equipment is located as listed in Table 2.2.8-1.	An inspection will be performed of the location of the equipment listed in Table 2.2.8-1.	The equipment listed in Table 2.2.8-1 is located as listed in Table 2.2.8-1.
3.1	The components designated <u>Equipment listed in Table 2.2.8-1</u> as ASME Code Section III in Table 2.2.8-1 are is designed, <u>welded</u> , and <u>hydrostatically tested</u> constructed in accordance with ASME Code Section III requirements .	<p>a. <u>Analysis of the equipment identified in Table 2.2.8-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. Inspections will be conducted <u>on the equipment identified in Table 2.2.8-1 as ASME Code Section III to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.2.8-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>a. <u>ASME Code Section III Design Reports (NCA-3550) exist and conclude that the equipment identified in Table 2.2.8-1 as ASME Code Section III meets ASME Code Section III design requirements.</u></p> <p>b. The components listed <u>Equipment identified in Table 2.2.8-1</u> as ASME Code Section III in Table 2.2.8-1 have <u>has</u> been designed, constructed and tested-welded in accordance with <u>per</u> ASME Code Section III <u>welding</u> requirements.</p> <p>c. <u>Equipment identified in Table 2.2.8-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>

14.03.03-26



Table 2.3.3-3—SAHRS Inspections, Tests, Analyses, and Acceptance Criteria (5-6 Sheets)

Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
2.1 The functional arrangement of the SAHRS is as shown on Figure 2.3.3-1.	Inspections of the as-built system as shown on Figure 2.3.3-1 will be conducted.	The as-built SAHRS conforms with the functional arrangement as shown in Figure 2.3.3-1.
2.2 The location of the SAHRS equipment is as listed in Table 2.3.3-1.	An inspection will be performed of the location of the equipment listed in Table 2.3.3-1.	The equipment listed in Table 2.3.3-1 is located as listed in Table 2.3.3-1. 14.03.03-26
3.1 The components designated <u>Equipment listed in Table 2.3.3-1</u> as ASME Code Section III in Table 2.3.3-1 <u>are</u> is <u>designed, welded, and hydrostatically tested in accordance with</u> to <u>ASME BPV Code Section III</u> requirements.	<p>a. <u>Analysis of the equipment identified in Table 2.3.3-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. <u>Inspections will be conducted of</u> ASME design, NDE and hydrostatic test reports for the components listed on the equipment identified in Table 2.3.3-1 <u>as ASME BPV Code Section III in Table 2.3.3-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.3.3-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>a. <u>ASME Code Section III Design Reports (NCA-3550)</u> A report <u>exists and concludes that the</u> components <u>equipment identified in Table 2.3.3-1 listed as ASME BPV Code Section III in Table 2.3.3-1 have</u> meets been designed and hydrostatically tested in accordance <u>ASME BPV Code Section III design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.3.3-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>Equipment identified in Table 2.3.3-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>

Table 2.5.4-34—Emergency Diesel Generator Inspections, Tests, Analyses, and Acceptance Criteria (4-68 Sheets)

	Commitment <u>Wording</u>	Inspection, Test or Analysis	Acceptance Criteria
3.1	<p>Equipment listed in Table 2.5.4-1 as ASME Code Section III is designed, <u>welded</u>, and <u>hydrostatically tested</u> to <u>in accordance with</u> ASME Code Section III.</p>	<p>a. <u>Analysis of the equipment identified in Table 2.5.4-1 as ASME Code Section III will be performed per ASME Code Section III design requirements</u></p> <p>b. An <u>Inspections will be conducted on the equipment identified in Table 2.5.4-1 as ASME Code Section III to verify welding has been performed per ASME Code Section III welding requirements.</u> performe</p> <p>d.</p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.5.4-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>14.03.03-26</p> <p>a. <u>ASME Code Section III Design Reports (NCA-3550)</u> A report exists and concludes that the components <u>equipment identified in Table 2.5.4-1 listed</u> as ASME Code Section III in Table 2.5.4-1 have been designed and tested in accordance <u>meets</u> ASME Code Section III <u>design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.5.4-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>Equipment identified in Table 2.5.4-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>

**Table 2.6.8-4—Containment Building Ventilation System
ITAAC
(3-5 Sheets)**

	Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
2.1	The functional arrangement of the CBVS is as shown on Figure 2.6.8-1.	Inspections of the as-built system will be conducted.	The as-built CBVS conforms to the functional arrangement as shown in Figure 2.6.8-1.
2.2	Equipment shown on Figures 2.6.8-1, 2.6.8-2 and 2.6.8-3 is located as listed in Tables 2.6.8-1 and 2.6.8-2.	An inspection will be performed of the location of the equipment listed in Tables 2.6.8-1 and 2.6.8-2.	The equipment listed in Tables 2.6.8-1 and 2.6.8-2 is located as listed in Tables 2.6.8-1 and 2.6.8-2. 14.03.03-26
3.1	<p>The CBVS eEquipment listed in <u>Table 2.6.8-1</u> as ASME Code Section III in Table 2.6.8-1 has been <u>is</u> designed, inspected<u>welded</u>, and <u>hydrostatically tested per in accordance with</u> ASME Code Section III.</p>	<p>a) Analysis of the es <u>will be performed and inspections will be conducted of the as-built components equipment listed identified</u> in Table 2.6.8-1 <u>as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b) <u>Inspections will be conducted on the equipment identified in Table 2.6.8-1 as ASME Code Section III to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c) <u>Hydrostatic testing of the equipment identified in Table 2.6.8-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>a) <u>ASME Code Section III Design Reports (NCA-3550) exist and conclude that the equipment identified in Table 2.6.8-1 as ASME Code Section III meets ASME Code Section III design requirements.</u></p> <p>b) <u>Equipment identified in Table 2.6.8-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c) The CBVS eEquipment listed identified in Table 2.6.8-1 <u>as ASME Code Section III has been designed, inspected, and hydrostatically tested in accordance with per ASME Code Section III hydrostatic testing requirements.</u></p>

Table 2.7.1-3—Component Cooling Water System Inspections, Tests, Analyses, and Acceptance Criteria (7-9 Sheets)

14.03.03-26

Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
<p>3.1 The components designated <u>Equipment listed in Table 2.7.1-1 as ASME Code Section III in Table 2.7.1-1 are is designed, welded, and hydrostatically tested in accordance with to-ASME Code Section III-requirements.</u></p>	<p>a. <u>Analysis of the equipment identified in Table 2.7.1-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. <u>Inspections will be conducted of ASME design, NDE and hydrostatic test reports for the components listed on the equipment identified in Table 2.7.1-1 as ASME Code Section III in Table 2.7.1-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.7.1-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>a. <u>ASME Code Section III A Design Reports (NCA-3550) report exists and concludes that the components listed equipment identified in Table 2.7.1-1 as ASME Code Section III in Table 2.7.1-1 have been designed and hydrostatically tested in accordance meets ASME Code Section III design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.7.1-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>Equipment identified in Table 2.7.1-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>
<p>3.2 Check valves listed in Table 2.7.1-1 will function as listed in Table 2.7.1-1.</p>	<p>Tests will be performed for the operation of the check valves listed in Table 2.7.1-1.</p>	<p>The check valves listed in Table 2.7.1-1 perform the functions listed in Table 2.7.1-1.</p>

Table 2.7.2-3—Safety Chilled Water System Inspections, Tests, Analyses, and Acceptance Criteria (6-7 Sheets)

14.03.03-26		
Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
<p>3.1 The components designated <u>Equipment listed in Table 2.7.2-1</u> as ASME Code Section III in Table 2.7.2-1 <u>are</u> designed, welded, and hydrostatically tested in accordance with to ASME Code Section III requirements.</p>	<p>a. <u>Analysis of the equipment identified in Table 2.7.2-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. Inspections will be conducted of ASME design, NDE and hydrostatic test reports for the component listed on the <u>equipment identified in Table 2.7.2-1 as ASME Code Section III in Table 2.7.2-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.7.2-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>a. <u>ASME Code Section III Design Reports (NCA-3550)</u> A report exists and concludes that the components <u>equipment identified in Table 2.7.2-1 listed</u> as ASME Code Section III in Table 2.7.2-1 have been designed and hydrostatically tested in accordance <u>meets</u> ASME Code Section III <u>design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.7.2-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>Equipment identified in Table 2.7.2-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>
<p>3.2 Check valves listed in Table 2.7.2-1 will function as listed in Table 2.7.2-1.</p>	<p>Tests will be performed for the operation of the check valves listed in Table 2.7.2-1.</p>	<p>The check valves listed in Table 2.7.2-1 perform the functions listed in Table 2.7.2-1.</p>

Table 2.7.5-3—Fire Water Distribution System Inspections, Tests, Analyses, and Acceptance Criteria (4-5 Sheets)

	Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
2.1	The location of the safety-related fire water distribution system equipment is as listed in Table 2.7.5-1.	An inspection will be performed of the location of the equipment listed in Table 2.7.5-1.	The equipment listed in Table 2.7.5-1 is located as listed in Table 2.7.5-1. 14.03.03-26
3.1	<p><u>Equipment listed in Table 2.7.5-1</u> The components designated as ASME Code Section III in Table 2.7.5-1 are <u>is</u> designed, <u>welded</u>, and <u>hydrostatically tested</u> to in accordance with ASME Code Section III requirements.</p>	<p><u>a. Analysis of the equipment identified in Table 2.7.5-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p><u>b. Inspections will be conducted on the equipment identified in Table 2.7.5-1 of ASME design, NDE and hydrostatic test reports for the components listed</u> as ASME Code Section III <u>to verify welding has been performed per ASME Code Section III welding requirements</u> in Table 2.7.5-1.</p> <p><u>c. Hydrostatic testing of the equipment identified in Table 2.7.5-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p><u>a. ASME Code Section III Design Reports (NCA-3550)</u> A report exists and concludes that the components listed <u>equipment identified in Table 2.7.5-1</u> as ASME Code Section III in Table 2.7.5-1 <u>have been designed and hydrostatically tested in accordance</u> meets ASME Code Section III <u>design requirements.</u></p> <p><u>b. Equipment identified in Table 2.7.5-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p><u>c. Equipment identified in Table 2.7.5-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>

**Table 2.7.11-3—Essential Service Water System Inspections, Tests, Analyses, and Acceptance Criteria
(6-9 Sheets)**

Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
<p>3.1 The components designated <u>Equipment listed in Table 2.7.11-1</u> as ASME Code Section III in Table 2.7.11-1 <u>are</u> designed, <u>welded, and hydrostatically tested</u> to in accordance with ASME Code Section III requirements.</p>	<p>a. <u>Analysis of the equipment identified in Table 2.7.11-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. <u>Inspections will be conducted of ASME design, NDE and hydrostatic test reports for the components listed on the equipment identified in Table 2.7.11-1 as ASME Code Section III in Table 2.7.11-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.7.11-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>14.03.03-26</p> <p>a. <u>ASME Code Section III Design Reports (NCA-3550)</u> A report exists and concludes that the components <u>equipment identified in Table 2.7.11-1 listed</u> as ASME Code Section III in Table 2.7.11-1 have been designed and hydrostatically tested in accordance <u>meets</u> ASME Code Section III <u>design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.7.11-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>Equipment identified in Table 2.7.11-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>
<p>3.2 Check valves listed in Table 2.7.8-1 will function as listed in Table 2.7.11-1.</p>	<p>Tests will be performed for the operation of the check valves listed in Table 2.7.11-1.</p>	<p>The check valves listed in Table 2.7.11-1 perform the functions listed in Table 2.7.11-1.</p>

Table 2.8.2-3—MSS Inspections, Tests, Analyses, and Acceptance Criteria (5-7 Sheets)

Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
<p>3.1 The components designated <u>Equipment listed in Table 2.8.2-1</u> as ASME Code Section III in Table 2.8.2-1 <u>are</u> is <u>designed, welded, and hydrostatically tested to</u> in <u>accordance with</u> ASME Code Section III requirements.</p>	<p>a. <u>Analysis of the equipment identified in Table 2.8.2-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. <u>Inspections will be conducted of ASME design, NDE, and hydrostatic test reports for the components listed on the equipment identified in Table 2.8.2-1 as ASME Code Section III in Table 2.8.2-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.8.2-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>14.03.03-26</p> <p>a. <u>ASME Code Section III Design Reports (NCA-3550)</u> A report <u>exists</u> and concludes that the <u>equipment identified in Table 2.8.2-1</u> components listed as ASME Code Section III in Table 2.8.2-1 <u>have been designed and hydrostatically tested in accordance</u> meets ASME Code Section III <u>design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.8.2-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>Equipment identified in Table 2.8.2-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>

Table 2.8.6-3—MFWS Inspections, Tests, Analyses, and Acceptance Criteria (4-6 Sheets)

	Commitment Wording	Inspection, Test, or Analysis	Acceptance Criteria
2.1	The functional arrangement of the MFWS is as shown on Figure 2.8.6-1.	Inspections of the as-built system as shown on Figure 2.8.6-1 will be conducted.	The as-built MFWS conforms with the functional arrangement as shown in Figure 2.8.6-1.
2.2	The location of the MFWS equipment is as listed in Table 2.8.6-1.	An inspection will be performed of the location of the equipment listed in Table 2.8.6-1.	The equipment listed in Table 2.8.6-1 is located as listed in Table 2.8.6-1.
2.3	Physical separation exists between divisions of the safety-related parts of MFWS.	An inspection will be performed to verify that the divisions of the MFWS are located in separate SBs.	The divisions of the MFWS are located in separate SBs. 14.03.03-26
3.1	<p>The components designated <u>Equipment listed in Table 2.8.6-1</u> as ASME Code Section III in Table 2.8.6-1 <u>are</u> designed, welded, and hydrostatically tested to <u>in accordance with</u> ASME Code Section III requirements.</p>	<p><u>a. Analysis of the equipment identified in Table 2.8.6-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p><u>b. Inspections will be conducted of ASME design, NDE, and hydrostatic test reports for the components listed on the equipment identified in Table 2.8.6-1 as ASME Code Section III in Table 2.8.6-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p><u>c. Hydrostatic testing of the equipment identified in Table 2.8.6-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p><u>a. ASME Code Section III Design Reports (NCA-3550) A report exists and concludes that the equipment identified in Table 2.8.6-1 components listed as ASME Code Section III in Table 2.8.6-1 have been designed and hydrostatically tested in accordance with</u> ASME Code Section III <u>design requirements.</u></p> <p><u>b. Equipment identified in Table 2.8.6-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p><u>c. Equipment identified in Table 2.8.6-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>

Table 2.8.7-3—SGBS Inspections, Tests, Analyses, and Acceptance Criteria (4-5 Sheets)

Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
2.1 The functional arrangement of the SGBS is as shown on Figure 2.8.7-1.	Inspections of the as-built system as shown on Figure 2.8.7-1 will be conducted	The as-built SGBS conforms with the functional arrangement as shown in Figure 2.8.7-1.
2.2 The location of the SGBS equipment is as listed in Table 2.8.7-1.	An inspection will be performed of the location of the equipment listed in Table 2.8.7-1.	The equipment listed in Table 2.8.7-1 is located as listed in Table 2.8.7-1. 14.03.03-26
3.1 The components designated <u>Equipment listed in Table 2.8.7-1 as ASME Code Section III</u> in Table 2.8.7-1 are <u>is</u> designed, welded, and hydrostatically tested to in accordance with <u>ASME Code Section III</u> requirements.	<p>a. <u>Analysis of the equipment identified in Table 2.8.7-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</u></p> <p>b. <u>Inspections will be conducted of ASME design, NDE, and hydrostatic test reports for the components listed on the equipment identified in Table 2.8.7-1 as ASME Code Section III in Table 2.8.7-1 to verify welding has been performed per ASME Code Section III welding requirements.</u></p> <p>c. <u>Hydrostatic testing of the equipment identified in Table 2.8.7-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</u></p>	<p>a. <u>ASME Code Section III Design Reports (NCA-3550)</u> A report exists and concludes that the equipment identified in Table 2.8.7-1 components listed as ASME Code Section III in Table 2.8.7-1 have been designed and hydrostatically tested in accordance <u>meets ASME Code Section III design requirements.</u></p> <p>b. <u>Equipment identified in Table 2.8.7-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</u></p> <p>c. <u>Equipment identified in Table 2.8.7-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</u></p>

Table 3.5-3—Containment Isolation Inspections, Tests, Analyses, and Acceptance Criteria (7-6 Sheets)

Commitment Wording	Inspection, Test or Analysis	Acceptance Criteria
<p>2.1 The functional arrangement of the containment isolation equipment is as shown in Figure 3.5-1 and as indicated in Table 3.5-1.</p>	<p>Inspections of the as-built equipment will be conducted</p>	<p>The containment isolation equipment conforms to the functional arrangement as indicated in Table 3.5-1.</p>
<p>2.2 The location of the containment isolation equipment is as listed in Table 3.5-1.</p>	<p>An inspection will be performed.</p>	<p>The equipment listed in Table 3.5-1 is located as listed in Table 3.5-1.</p>
<p>3.1 The components designated Equipment listed in Table 3.5-1 as ASME Code Section III in Table 3.5-1 areis designed, welded, and hydrostatically tested toin accordance with ASME Code Section III requirements.</p>	<p>a. Analysis of the equipment identified in Table 3.5-1 as ASME Code Section III will be performed per ASME Code Section III design requirements.</p> <p>b. Inspections will be conducted of ASME design, NDE and hydrostatic test reports for the components listed on the equipment identified in Table 3.5-1 as ASME Code Section III to verify welding has been performed per ASME Code Section III welding requirements. in Table 3.5-1.</p> <p>c. Hydrostatic testing of the equipment identified in Table 3.5-1 as ASME Code Section III will be performed per ASME Code Section III hydrostatic testing requirements.</p>	<p>a. ASME Code Section III Design Reports (NCA-3550) A report exists and concludes that the components listedequipment identified in Table 3.5-1 as ASME Code Section III in Table 3.5-1 have been designed and hydrostatically tested in accordance with meets ASME Code Section III design requirements.</p> <p>b. Equipment identified in Table 3.5-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.</p> <p>c. Equipment identified in Table 3.5-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.</p>

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ASME Code Section III Design Reports (NCA-3550) A report exists and concludes that the

equipment identified in Table 3.5-1 as ASME Code Section III in Table 3.5-1 have been designed and hydrostatically tested in accordance with meets ASME Code Section III design requirements.

Equipment identified in Table 3.5-1 as ASME Code Section III has been welded per ASME Code Section III welding requirements.

Equipment identified in Table 3.5-1 as ASME Code Section III has been hydrostatically tested per ASME Code Section III hydrostatic testing requirements.