ArevaEPRDCPEm Resource

From: WELLS Russell D (AREVA NP INC) [Russell.Wells@areva.com]
Sent: Thursday, September 10, 2009 6:38 PM
To: Tesfaye, Getachew
Cc: BENNETT Kathy A (OFR) (AREVA NP INC); Pederson Ronda M (AREVA NP INC); DELANO Karen V (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 255, Supplement 1 ,FSAR Ch. 14
Attachments: RAI 255 Supplement 1 Response US EPR DC.pdf

Getachew,

AREVA NP Inc. (AREVA NP) provided responses to 2 of the 3 questions of RAI No. 255 on July 22, 2009. The attached file, "RAI 255 Supplement 1 Response US EPR DC.pdf," provides a technically correct and complete response to the remaining question, as committed.

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 255, Supplement 1, Question 14.03.03-38.

The following table indicates the respective pages in the response document, "RAI 255 Supplement 1 Response US EPR DC.pdf," that contain AREVA NP's response to the subject question.

Question #	Start Page	End Page
RAI 255 — 14.03.03-38	2	5

This concludes the formal AREVA NP response to RAI 255, and there are no questions from this RAI for which AREVA NP has not provided responses.

Sincerely,

(Russ Wells on behalf of)
Ronda Pederson
ronda.pederson@areva.com
Licensing Manager, U.S. EPR Design Certification
AREVA NP Inc.
An AREVA and Siemens company
3315 Old Forest Road
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From: Pederson Ronda M (AREVA NP INC)
Sent: Wednesday, July 22, 2009 5:06 PM
To: 'Tesfaye, Getachew'
Cc: BENNETT Kathy A (OFR) (AREVA NP INC); DELANO Karen V (AREVA NP INC); DUNCAN Leslie E (AREVA NP INC)
Subject: Response to U.S. EPR Design Certification Application RAI No. 255,FSAR Ch. 14

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 255 Response US EPR DC.pdf," provides technically correct and complete responses to 2 of 3 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 255 Question 14.02-97.

The following table indicates the respective pages in the response document, "RAI 255 Response US EPR DC.pdf," that contain AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 255 — 14.02-97	2	2
RAI 255 — 14.02-98	3	3
RAI 255 — 14.03.03-38	4	4

A complete answer is not provided for 1 of the 3 questions. The schedule for a technically correct and complete response to the remaining question is provided below.

Question #	Response Date
RAI 255 — 14.03.03-38	September 10, 2009

Sincerely,

Ronda Pederson

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From: Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]
Sent: Thursday, June 25, 2009 7:25 AM
To: ZZ-DL-A-USEPR-DL
Cc: Crane, Samantha; Peralta, Juan; Ng, Ching; Dixon-Herrity, Jennifer; Miernicki, Michael; Colaccino, Joseph; ArevaEPRDCPEm Resource
Subject: U.S. EPR Design Certification Application RAI No. 255 (1885, 3094),FSAR Ch. 14

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on May 18, 2009, and on June 24, 2009, you informed us that the RAI is clear and no further clarification is needed. As a result, no change is made to the draft RAI. 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
(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 794

Mail Envelope Properties (1F1CC1BBDC66B842A46CAC03D6B1CD4101EC128F)

Subject: Response to U.S. EPR Design Certification Application RAI No. 255, Supplement 1 ,FSAR Ch. 14
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Response to

Request for Additional Information No. 255, Supplement 1

6/25/2009

U. S. EPR Standard Design Certification
AREVA NP Inc.
Docket No. 52-020
SRP Section: 14.02 - Initial Plant Test Program - Design Certification and New License Applicants
SRP Section: 14.03.03 - Piping Systems and Components - Inspections, Tests, Analyses, and Acceptance Criteria
Application Section: FSAR Ch. 14

QUESTIONS for Quality and Vendor Branch 1 (AP1000/EPR Projects) (CQVP)
QUESTIONS for Engineering Mechanics Branch 2 (ESBWR/ABWR Projects) (EMB2)

Question 14.03.03-38:

Follow-up to RAI 156, Question 14.03.03-27

In its letter dated April 29th, 2009, AREVA responded to RAI 14.03.03-27 by revising the ITAAC related to piping systems in Tier 1 Table 2.2.1-5. ITAAC related to piping design was modified and ITAAC related to as-built reconciliation as well as fabrication and installation were also added. The staff requests the following changes to improve clarity and inspectibility of the ITAAC.

a. Piping design reports ITAAC:
For item 3.20 of Tier 1, Table 2.2.1-5, AREVA modified the Inspections, Tests, and Analyses (ITA) and included the ASME Code Section III Design Reports (NCA-3550) in the Acceptance Criteria (AC). The staff has two concerns about the proposed changes. First, in the ITA, the staff found that inspections for the existence of the Design Reports are not the objectives of the ITAAC. Rather, the ITA should be reworded as "Inspections of the ASME Code Section III Design Reports (NCA-3550) and required documents will be performed". Second, the AC should be reworded as "ASME Code Section III Design Reports (NCA-3550) exist and conclude that for portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 comply with the ASME Code Section III requirements."

b. Piping as-built reconciliation ITAAC:
For item 3.21, of Tier 1, Table 2.2.1-5, AREVA included the ITAAC to address the as-built reconciliation activity. Three modifications should be made to clarify the statements in the Commitment Wording, ITA, and AC: (i) Revise the Commitment Wording to "The as-built portions of the RCS piping shown in ASME Code Section III in Figure 2.2.1-1 shall be reconciled with the piping design requirements." (ii) The staff found that an inspection is not appropriate. Rather, the ITA should be "A reconciliation analysis of the piping using the as-designed and as-built information and ASME Code certified Design Report (NCA-3550) will be conducted." (iii) Modify the AC to "For portions of….in Figure 2.2.1-1, ASME Code Design Report(s) exist and conclude that design reconciliation has been completed in accordance with the ASME Code for as-built reconciliation. The report(s) document the results of the reconciliation analysis."

c. Piping fabrication and installation ITAAC:
For item 3.24, of Tier 1, Table 2.2.1-5, AREVA incorporated the ITAAC to address the fabrication and installation activities. The staff requests three minor modifications. (i) In the ITA, it should state that "An inspection of the piping will be conducted." (ii) In the Commitment Wording, instead of "…are installed…" it should be "…are fabricated, installed, and inspected…" Similarly in the AC, instead of "…conclude that installation is…" the AC should be "…conclude that fabrication, installation, and inspection are…"

Response to Question 14.03.03-38:

a) The inspections, tests, analyses (ITA) and acceptance criteria (AC) for U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.20 will be revised as recommended by the question. Table 14.03.03-38-1 lists the revised U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.20.

ITAAC listed in Table 14.03.03-38-2, which are similar to U.S. EPR FSAR Tier 1, Section 2.2.1, Item 3.20, will also be revised.

b) The proposed commitment wording in the question for U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.21 states a requirement (". . . shall be reconciled . . .") rather than a design feature. As described in SRP 14.3, page 14.3-16, "The applicant should put the top-level design features and performance characteristics that were the most significant to safety in the Tier 1 design descriptions." U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.21 ("Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are installed in accordance with an ASME Code Section III Design Report") describes a design feature and does not need be revised. Reconciliation with piping design reports is how the as-installed piping will be verified to be in accordance with ASME Code Section III Design Reports and will be provided in the ITA described below.

   The ITA for U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.21 will be revised to analyses instead of inspections, as recommended by the question. The revised ITA will be "Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information."

   The AC for U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.21 will be revised to provide additional details. The revised AC will be "For portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-built condition." The AC lists the N-5 and NCA-3554 reports because these are the specific reports that will be used to verify reconciliation.

   Table 14.03.03-38-1 lists the revised U.S. EPR FSAR Tier 1, Table 2.2.1-5, Item 3.21. ITAAC listed in Table 14.03.03-38-2, which are similar to U.S. EPR FSAR Tier 1, Section 2.2.1, Item 3.21, will also be revised.

c) The commitment wording, ITA, and AC for U.S. EPR FSAR Tier 1, Section 2.2.1, Item 3.24 and Table 2.2.1-5, Item 3.24 will be revised as shown in Table 14.03.03-38-1. ITAAC listed in Table 14.03.03-38-2, which are similar to U.S. EPR FSAR Tier 1, Section 2.2.1, Item 3.24, will also be revised.

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 14.03.03-38-1—Revised U.S. EPR FSAR Tier 1, Section 2.2.1 ITAAC

	Commitment Wording	Inspections, Tests, Analyses	Acceptance Criteria
3.20	Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are designed in accordance with ASME Code Section III requirements.	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed.	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 comply with ASME Code Section III requirements.
3.21	Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.	For portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.
3.24	Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.	For portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.

Table 14.03.03-38-2—Revised Piping ITAAC

U.S. EPR FSAR Tier 1 Section	Revised Piping ITAAC
2.2.1	3.20, 3.21, and 3.24
2.2.2	3.8, 3.9, and 3.12
2.2.3	3.10, 3.11, and 3.14
2.2.4	3.9, 3.10, and 3.13
2.2.5	3.9, 3.10, and 3.13
2.2.6	3.10, 3.11, and 3.14
2.2.7	3.10, 3.11, and 3.14
2.3.3	3.9, 3.10, and 3.13
2.5.4	3.16, 3.17, and 3.20
2.7.1	3.9, 3.10, and 3.13
2.7.2	3.9, 3.10, and 3.13
2.7.11	3.12, 3.13, and 3.16
2.8.2	3.8, 3.9, and 3.12
2.8.6	3.9, 3.10, and 3.13
2.8.7	3.8, 3.9, and 3.12
3.5	3.7, 3.8, and 3.11

U.S. EPR Final Safety Analysis Report Markups

3.16 RPV internals listed in Table 2.2.1-1 are designed in accordance with ASME Code Section III, Subsection NG.

3.17 Core support structure welds meet ASME Code Section III, Subsection NG requirements.

3.18 The RPV internals are provided with irradiation specimen guide baskets to hold capsules containing RPV material surveillance specimens.

3.19 Each RCP contains an oil collection system.

3.20 Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are designed in accordance with ASME Code Section III requirements.

3.21 Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are installed in accordance with an ASME Code Section III Design Report.

3.22 Pressure boundary welds in portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are in accordance with ASME Code Section III.

3.23 Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 retain their pressure boundary integrity at their design pressure.

3.24 Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are installed and inspected in accordance with ASME Code Section III requirements.

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3.25 Components listed in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, are designed in accordance with ASME Code Section III requirements.

3.26 Components listed in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, are fabricated in accordance with ASME Code Section III requirements.

3.27 Pressure boundary welds on components listed in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, are in accordance with ASME Code Section III requirements.

3.28 Components listed in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, retain their pressure boundary integrity at their design pressure.

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Tables 2.2.1-2—Equipment and Valve Actuator Power Supplies and Controls and 2.2.1-3—Instrumentation Power Supplies, Classification, and Displays are retrievable in the main control room (MCR) and remote shutdown station (RSS) as listed in Tables 2.2.1-2 and 2.2.1-3.

4.2 The RCS system equipment controls are provided in the MCR and RSS as listed in Table 2.2.1-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.2.1-2 responds to the state requested by a test signal.

Table 2.2.1-5—~~RCS~~ Reactor Coolant System ITAAC (9 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.20	Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are designed in accordance with ASME Code Section III requirements.	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed.~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 comply with ASME Code Section III requirements.~~ASME Code section III Design Reports (NCA-3550) exist for portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1.~~
3.21	Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~

14.03.03-38

Table 2.2.1-5—~~RCS~~ Reactor Coolant System ITAAC (9 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.22	Pressure boundary welds in portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 has been performed in accordance with ASME Code Section III.
3.23	Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.24	Portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1 are installed and inspected in accordance with ASME code Section III requirements.	An inspection of the piping will be performed. ~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements. ~~For portions of the RCS piping shown as ASME Code Section III in Figure 2.2.1-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.25	Components listed in Table 2.2.1-1 as ASME Code Section III, other than RPV internals, are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.2.1-1, other than RPV internals.

3.10 Pressure boundary welds in portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 are in accordance with ASME Code Section III.

3.11 Portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 retain their pressure boundary integrity at their design pressure.

3.12 Portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.13 Components listed in Table 2.2.2-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.14 Components listed in Table 2.2.2-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.15 Pressure boundary welds on components listed in Table 2.2.2-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.16 Components listed in Table 2.2.2-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.2.2-2—IRWSTS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.2.2-2.

4.2 The IRWSTS equipment controls are provided in the MCR and the RSS as listed in Table 2.2.2-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.2.2-2 responds to the state requested by a test signal.

4.4 IRWST has level indication.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.2.2-2 are powered from the Class 1E division as listed in Table 2.2.2-2 in a normal or alternate feed condition.

5.2 Valves listed in Table 2.2.2-2 fail as-is on loss of power.

6.0 Environmental Qualifications

6.1 Components in Table 2.2.2 -2, that are designated as harsh environment, will perform the function listed in Table 2.2.2-1 in the environments that exist during and following design basis events. ~~Equipment listed in Table 2.2.2 -2 for harsh environment can perform the function in Table 2.2.2-1 following exposure to the design basis environments for the time required~~.

Table 2.2.2-3—In-Containment Refueling Water Storage Tank System~~IRWSTS~~ ITAAC (7 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.4	Deleted.	Deleted.	Deleted.
3.5	Deleted.	Deleted.	Deleted.
3.6	Deleted.	Deleted.	Deleted.
3.7	Deleted.	Deleted.	Deleted.
3.8	Portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1.~~
3.9	Portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~

Table 2.2.2-3—In-Containment Refueling Water Storage Tank System~~IRWSTS~~ ITAAC (7 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.10	Pressure boundary welds in portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 has been performed in accordance with ASME Code Section III.
3.11	Portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.12	Portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the IRWSTS piping shown as ASME Code Section III in Figure 2.2.2-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.13	Components listed in Table 2.2.2-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.2.2-1.

3.10 Portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 are designed in accordance with ASME Code Section III requirements.

3.11 Portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 are installed in accordance with an ASME Code Section III Design Report.

3.12 Pressure boundary welds in portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 are in accordance with ASME Code Section III.

3.13 Portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 retain their pressure boundary integrity at their design pressure.

3.14 Portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.15 Components listed in Table 2.2.3-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.16 Components listed in Table 2.2.3-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.17 Pressure boundary welds on components listed in Table 2.2.3-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.18 Components listed in Table 2.2.3-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.2.3-2—SIS/RHRS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.2.3-2.

4.2 The SIS/RHRS equipment controls are provided in the MCR and the RSS as listed in Table 2.2.3-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.2.3-2 responds to the state requested by a test signal.

4.4 The SIS/RHRS has the following system interlocks:

- Opening of the accumulator injection path.
- Opening authorization of the residual heat removal system suction path from the reactor coolant system.
- Opening authorization of the hot-leg safety injection path.

Table 2.2.3-3—Safety Injection System and Residual Heat Removal System~~SIS/RHRS~~ ITAAC (8 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.10	Portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1.~~
3.11	Portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~

Table 2.2.3-3—Safety Injection System and Residual Heat Removal System~~SIS/RHRS~~ ITAAC (8 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.12	Pressure boundary welds in portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 has been performed in accordance with ASME Code Section III.
3.13	Portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.14	Portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the SIS/RHRS piping shown as ASME Code Section III in Figure 2.2.3-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.15	Components listed in Table 2.2.3-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.2.3-1.

3.10 Portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 are installed in accordance with an ASME Code Section III Design Report.

3.11 Pressure boundary welds in portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 are in accordance with ASME Code Section III.

3.12 Portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 retain their pressure boundary integrity at their design pressure.

3.13 Portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.14 Components listed in Table 2.2.4-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.15 Components listed in Table 2.2.4-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.16 Pressure boundary welds on components listed in Table 2.2.4-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.17 Components listed in Table 2.2.4-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.2.4-2—EFWS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.2.4-2.

4.2 The EFWS equipment controls are provided in the MCR and the RSS as listed in Table 2.2.4-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.2.4-2 responds to the state requested by a test signal.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.2.4-2 are powered from the Class 1E division as listed in Table 2.2.4-2 in a normal or alternate feed condition.

5.2 Valves listed in Table 2.2.4-2 fail as-is on loss of power.

6.0 Environmental Qualifications

6.1 Components in Table 2.2.4-2, that are designated as harsh environment, will perform the function listed in Table 2.2.4-1 in the environments that exist during and following design basis events. ~~Equipment listed in Table 2.2.4-2 for harsh environment can perform the function in Table 2.2.4-1 following exposure to the design basis environments for the time required.~~

Table 2.2.4-3—Emergency Feedwater System~~EFWS~~ ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.7	Deleted.	Deleted.	Deleted.
3.8	Deleted.	Deleted.	Deleted.
3.9	Portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1.~~
3.10	Portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~
3.11	Pressure boundary welds in portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 has been performed in accordance with ASME Code Section III.

Table 2.2.4-3—Emergency Feedwater System~~EFWS~~ ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.12	Portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.13	Portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the EFWS piping shown as ASME Code Section III in Figure 2.2.4-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.14	Components listed in Table 2.2.4-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.2.4-1.
3.15	Components listed in Table 2.2.4-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.	Inspections will be performed to verify that the design report has been revised to reflect as-built deviations from the design if applicable.	For components listed as ASME Code Section III in Table 2.2.4-1, the as-built component satisfies design requirements of ASME Code Section III as demonstrated in the Design Report (NCA-3550).

3.8 Deleted.

3.9 Portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 are designed in accordance with ASME Code Section III requirements.

3.10 Portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 are installed in accordance with an ASME Code Section III Design Report.

3.11 Pressure boundary welds in portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 are in accordance with ASME Code Section III.

3.12 Portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 retain their pressure boundary integrity at their design pressure.

3.13 Portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.14 Components listed in Table 2.2.5-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.15 Components listed in Table 2.2.5-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.16 Pressure boundary welds on components listed in Table 2.2.5-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.17 Components listed in Table 2.2.5-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.2.5-2—FPCPS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.2.5-2.

4.2 The FPCPS equipment controls are provided in the MCR and the RSS as listed in Table 2.2.5-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.2.5-2 responds to the state requested by a test signal.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.2.5-2 are powered from the Class 1E division as listed in Table 2.2.5-2 in a normal or alternate feed condition.

5.2 Valves listed in Table 2.2.5-2 fail as-is on loss of power.

Table 2.2.5-3—Fuel Pool Cooling and Purification System~~FPCPS~~ ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.5	Deleted.	Deleted.	Deleted.
3.6	Deleted.	Deleted.	Deleted.
3.7	Deleted.	Deleted.	Deleted.
3.8	Deleted.	Deleted.	Deleted.
3.9	Portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1.~~
3.10	Portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~

Table 2.2.5-3—Fuel Pool Cooling and Purification System~~FPCPS~~ ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.11	Pressure boundary welds in portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 has been performed in accordance with ASME Code Section III.
3.12	Portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.13	Portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the FPCPS piping shown as ASME Code Section III in Figure 2.2.5-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.14	Components listed in Table 2.2.5-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.2.5-1.

3.7 Deleted.

3.8 Deleted.

3.9 Deleted.

3.10 Portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 are designed in accordance with ASME Code Section III requirements.

3.11 Portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 are installed in accordance with an ASME Code Section III Design Report.

3.12 Pressure boundary welds in portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 are in accordance with ASME Code Section III.

3.13 Portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 retain their pressure boundary integrity at their design pressure.

3.14 Portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 are installed and inspected in accordance with ASME Code Section III requirements.

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3.15 Components listed in Table 2.2.6-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.16 Components listed in Table 2.2.6-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.17 Pressure boundary welds on components listed in Table 2.2.6-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.18 Components listed in Table 2.2.6-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.2.6-2—CVCS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.2.6-2.

4.2 The CVCS equipment controls are provided in the MCR and the RSS as listed in Table 2.2.6-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.2.6-2 responds to the state requested by a test signal.

4.4 The CVCS has the following system interlocks:

- Isolation of the charging pump suction from the volume control tank and normal letdown path during a boron dilution event by closure of valves 30KBA21AA001, 30KBA21AA009, and 30KBA25AA017.

Table 2.2.6-3—Chemical and Volume Control System ~~CVCS~~
ITAAC (6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.6	Deleted. ~~Components listed as ASME Code Class 1 in Table 2.2.6-1 will be analyzed for fatigue per ASME Section III Class 1.~~	Deleted. ~~An analysis will be performed.~~	Deleted. ~~a. Fatigue analysis has been performed for components listed as ASME Code Class 1 in Table 2.2.6-1.~~ ~~b. For components listed as ASME Code Class 1 in Table 2.2.6-1, operating modes where peak stresses are within ten percent of allowable have been identified.~~
3.7	Deleted.	Deleted.	Deleted.
3.8	Deleted.	Deleted.	Deleted.
3.9	Deleted.	Deleted.	Deleted.
3.10	Portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1.~~

Table 2.2.6-3—Chemical and Volume Control System ~~CVCS~~
ITAAC (6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.11	Portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~
3.12	Pressure boundary welds in portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 has been performed in accordance with ASME Code Section III.
3.13	Portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system.	For portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.

14.03.03-38

Table 2.2.6-3—Chemical and Volume Control System ~~CVCS~~
ITAAC (6 Sheets)

14.03.03-38

	Commitment Wording	Inspections, Tests, Analyses	Acceptance Criteria
3.14	Portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed. ~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements. ~~For portions of the CVCS piping shown as ASME Code Section III in Figure 2.2.6-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.15	Components listed in Table 2.2.6-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.2.6-1.
3.16	Components listed in Table 2.2.6-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.	Inspections will be performed to verify that the design report has been revised to reflect as-built deviations from the design if applicable.	For components listed as ASME Code Section III in Table 2.2.6-1, the as-built component satisfies design requirements of ASME Code Section III as demonstrated in the Design Report (NCA-3550).
3.17	Pressure boundary welds on components listed in Table 2.2.6-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.	Inspections of pressure boundary welds will be performed to verify that welding is performed in accordance with ASME Code Section III requirements.	For components listed as ASME Code Section III in Table 2.2.6-1, ASME Code Section III Data Reports (NCA-8000) exist and conclude that pressure boundary welding has been performed in accordance with ASME Code Section III.

3.9 Deleted.

3.10 Portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 are designed in accordance with ASME Code Section III requirements.

3.11 Portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 are installed in accordance with an ASME Code Section III Design Report.

3.12 Pressure boundary welds in portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 are in accordance with ASME Code Section III.

3.13 Portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 retain their pressure boundary integrity at their design pressure.

3.14 Portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 are installed and inspected in accordance with ASME Code Section III requirements.

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3.15 Components listed in Table 2.2.7-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.16 Components listed in Table 2.2.7-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.17 Pressure boundary welds on components listed in Table 2.2.7-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.18 Components listed in Table 2.2.7-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.2.7-2—EBS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.2.7-2.

4.2 The EBS equipment controls are provided in the MCR and the RSS as listed in Table 2.2.7-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.2.7-2 responds to the state requested by a test signal.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.2.7-2 are powered from the Class 1E division as listed in Table 2.2.7-2 in a normal or alternate feed condition.

5.2 Valves listed in Table 2.2.7-2 fail as-is on loss of power.

Table 2.2.7-3—Extra Borating System ~~EBS~~ ITAAC (6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.10	Portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1.~~
3.11	Portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~
3.12	Pressure boundary welds in portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 has been performed in accordance with ASME Code Section III.

Table 2.2.7-3—Extra Borating System ~~EBS~~ ITAAC (6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.13	Portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.14	Portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the EBS piping shown as ASME Code Section III in Figure 2.2.7-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.15	Components listed in Table 2.2.7-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.2.7-1.
3.16	Components listed in Table 2.2.7-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.	Inspections will be performed to verify that the design report has been revised to reflect as-built deviations from the design if applicable.	For components listed as ASME Code Section III in Table 2.2.7-1, the as-built component satisfies design requirements of ASME Code Section III as demonstrated in the Design Report (NCA-3550).

3.8 Deleted.

3.9 Portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 are designed in accordance with ASME Code Section III requirements.

3.10 Portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 are installed in accordance with an ASME Code Section III Design Report.

3.11 Pressure boundary welds in portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 are in accordance with ASME Code Section III.

3.12 Portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 retain their pressure boundary integrity at their design pressure.

3.13 Portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.14 Components listed in Table 2.3.3-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.15 Components listed in Table 2.3.3-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.16 Pressure boundary welds on components listed in Table 2.3.3-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.17 Components listed in Table 2.3.3-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 I&C Design Features, Displays and Controls

4.1 The SAHRS equipment controls are provided in the MCR as listed in Table 2.3.3-2—SAHRS Equipment I&C and Electrical Design.

4.2 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.3.3-2 responds to the state requested by a test signal.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.3.3-2 are powered from the Class 1E division as listed in Table 2.3.3-2 in a normal or alternate feed condition.

5.2 Valves listed in Table 2.3.3-2 fail as-is on loss of power.

6.0 Environmental Qualifications

6.1 Components in Table 2.3.3-2, that are designated as harsh environment, will perform the function listed in Table 2.3.3-1 in the environments that exist during and following design basis events.~~Equipment listed in Table 2.3.3-2 for harsh environment can perform the function in Table 2.3.3-1 following exposure to the design basis environments for the time required.~~

Table 2.3.3-3—Severe Accident Heat Removal System ~~SAHRS~~ ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.5	Deleted.	Deleted.	Deleted.
3.6	Deleted.	Deleted.	Deleted.
3.7	Deleted.	Deleted.	Deleted.
3.8	Deleted.	Deleted.	Deleted.
3.9	Portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1.~~
3.10	Portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~

Table 2.3.3-3—Severe Accident Heat Removal System ~~SAHRS~~ ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.11	Pressure boundary welds in portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 has been performed in accordance with ASME Code Section III.
3.12	Portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.13	Portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed. ~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements. ~~For portions of the SAHRS piping shown as ASME Code Section III in Figure 2.3.3-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.14	Components listed in Table 2.3.3-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.3.3-1.

3.8 Deleted.

3.9 Each EDG has a fuel oil storage tank.

3.10 Each EDG has a fuel oil day tank.

3.11 Each fuel oil transfer pump capacity is greater than EDG fuel oil consumption at the continuous rating.

3.12 Each EDG starting air system is capable of providing air to start the respective EDG without being recharged.

3.13 Check valves listed in Table 2.5.4-1 will function as listed in Table 2.5.4-1.

3.14 Each EDG lubricating oil system provides lubrication to the engine and turbocharger wearing parts during engine operation.

3.15 Each EDG exhaust path has a bypass exhaust path.

3.16 Portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 are designed in accordance with ASME Code Section III requirements.

3.17 Portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 are installed in accordance with an ASME Code Section III Design Report.

3.18 Pressure boundary welds in portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 are in accordance with ASME Code Section III.

3.19 Portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 retain their pressure boundary integrity at their design pressure.

3.20 Portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.21 Components listed in Table 2.5.4-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.22 Components listed in Table 2.5.4-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.23 Pressure boundary welds on components listed in Table 2.5.4-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.24 Components listed in Table 2.5.4-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

Table 2.5.4-4—Emergency Diesel Generator ITAAC (~~7~~ 10 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.15	Each EDG exhaust path has a bypass exhaust path.	Analysis, tests, type tests or a combination of analysis, test and type tests will be performed on the EDG exhaust bypass device.	Each EDG exhaust path bypass device provides an exhaust path when actuated.
3.16	Portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 are designed in accordance with ASME Code Section III requirements.	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5.~~

14.03.03-38

Table 2.5.4-4—Emergency Diesel Generator ITAAC (~~7~~ 10 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.17	Portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 are installed in accordance with an ASME Code Section III Design Report. 14.03.03-38	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~
3.18	Pressure boundary welds in portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 has been performed in accordance with ASME Code Section III.

Table 2.5.4-4—Emergency Diesel Generator ITAAC (~~7~~ 10 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.19	Portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.20	Portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N-5 Data Reports will be performed.~~	For portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5, N-5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the EDG piping shown as ASME Code Section III in Figure 2.5.4-1, Figure 2.5.4-2, Figure 2.5.4-3, Figure 2.5.4-4, and Figure 2.5.4-5, N-5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.21	Components listed in Table 2.5.4-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.5.4-1.
3.22	Components listed in Table 2.5.4-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.	Inspections will be performed to verify that the design report has been revised to reflect as-built deviations from the design if applicable.	For components listed as ASME Code Section III in Table 2.5.4-1, the as-built component satisfies design requirements of ASME Code Section III as demonstrated in the Design Report (NCA-3550).

3.0 Mechanical Design Features

3.1 Deleted.~~Equipment listed in Table 2.7.1-1 as ASME Code Section III is designed, welded, and hydrostatically tested in accordance with ASME Code Section III.~~

3.2 Check valves will function as listed in Table 2.7.1-1.

3.3 Deleted.

3.4 Components identified as Seismic Category I in Table 2.7.1-1 can withstand seismic design basis loads without a loss of the function listed in Table 2.7.1-1.~~Equipment identified as Seismic Category I in Table 2.7.1-1 can withstand seismic design basis loads without loss of safety function as listed in Table 2.7.1-1.~~

3.5 Deleted.

3.6 Deleted.

3.7 Deleted.

3.8 Deleted.

3.9 Portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 are designed in accordance with ASME Code Section III requirements.

3.10 Portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 are installed in accordance with an ASME Code Section III Design Report.

3.11 Pressure boundary welds in portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 are in accordance with ASME Code Section III.

3.12 Portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 retain their pressure boundary integrity at their design pressure.

3.13 Portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.14 Components listed in Table 2.7.1-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.15 Components listed in Table 2.7.1-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.16 Pressure boundary welds on components listed in Table 2.7.1-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.17 Components listed in Table 2.7.1-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

Table 2.7.1-3—Component Cooling Water System ITAAC
(7 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
		b. Inspections will be performed of the as-installed Seismic Category I components identified in Table 2.7.1-1 to verify that the components, including anchorage, are installed as specified on the construction drawings and deviations have been reconciled to the seismic qualification reports (SQDP, EQDP, or analyses).~~b. Inspections will be performed of the as-installed Seismic Category I equipment listed in Table 2.7.1-1 to verify that the equipment including anchorage is installed as specified on the construction drawings.~~	b. Inspection reports exist and conclude that the as-installed Seismic Category I components identified in Table 2.7.1-1, including anchorage, are installed as specified on the construction drawings and deviations have been reconciled to the seismic qualification reports (SQDP, EQDP, or analyses).~~b. Inspection reports exist and conclude that the as-installed Seismic Category I equipment listed in Table 2.7.1-1 including anchorage is installed as specified on the construction drawings.~~
3.5	Deleted.	Deleted.	Deleted.
3.6	Deleted.	Deleted.	Deleted.
3.7	Deleted.	Deleted.	Deleted.
3.8	Deleted.	Deleted.	Deleted.
3.9	Portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38 →	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1.~~

Table 2.7.1-3—Component Cooling Water System ITAAC
(7 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.10	Portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 are installed in accordance with an ASME Code Section III Design Report. 14.03.03-38	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information. ~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition. ~~For portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~
3.11	Pressure boundary welds in portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 has been performed in accordance with ASME Code Section III.
3.12	Portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system.	For portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.

Table 2.7.1-3—Component Cooling Water System ITAAC
(7 Sheets)

14.03.03-38

	Commitment Wording	Inspections, Tests, Analyses	Acceptance Criteria
3.13	Portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed. ~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements. ~~For portions of the CCWS piping shown as ASME Code Section III in Figure 2.7.1-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.14	Components listed in Table 2.7.1-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.7.1-1.
3.15	Components listed in Table 2.7.1-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.	Inspections will be performed to verify that the design report has been revised to reflect as-built deviations from the design if applicable.	For components listed as ASME Code Section III in Table 2.7.1-1, the as-built component satisfies design requirements of ASME Code Section III as demonstrated in the Design Report (NCA-3550).
3.16	Pressure boundary welds on components listed in Table 2.7.1-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.	Inspections of pressure boundary welds will be performed to verify that welding is performed in accordance with ASME Code Section III requirements.	For components listed as ASME Code Section III in Table 2.7.1-1, ASME Code Section III Data Reports (NCA-8000) exist and conclude that pressure boundary welding has been performed in accordance with ASME Code Section III.

3.9 Portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 are designed in accordance with ASME Code Section III requirements.

3.10 Portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 are installed in accordance with an ASME Code Section III Design Report.

3.11 Pressure boundary welds in portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 are in accordance with ASME Code Section III.

3.12 Portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 retain their pressure boundary integrity at their design pressure.

3.13 Portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.14 Components listed in Table 2.7.2-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.15 Components listed in Table 2.7.2-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.16 Pressure boundary welds on components listed in Table 2.7.2-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.17 Components listed in Table 2.7.2-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 I&C Design Features, Displays and Controls

4.1 Displays listed in Table 2.7.2-2—Safety Chilled Water System Equipment I&C and Electrical Design are retrievable in the MCR and the remote shutdown station (RSS) as listed in Table 2.7.2-2.

4.2 The SCWS equipment controls are provided in the MCR and the RSS as listed in Table 2.7.2-2.

4.3 Deleted~~Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.7.2-2 responds to the state requested by a test signal~~

4.4 The SCWS has the following interlocks with Division 1 and 2 or Division 3 and 4 cross-tied: The non running division chiller and pump(s) automatically start if the running division chiller or pumps(s) trip.~~The SCWS has the following interlocks: The standby recirculation pump automatically starts if the running pump trips.~~

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.7.2-2 are powered from Class 1E division as listed in Table 2.7.2-2 in a normal or alternate feed condition.

5.2 Valves listed in Table 2.7.2-2 fail as-is on loss of power.

Table 2.7.2-3—Safety Chilled Water System ITAAC
(5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.5	Deleted.	Deleted.	Deleted.
3.6	Deleted.	Deleted.	Deleted.
3.7	Deleted.	Deleted.	Deleted.
3.8	Deleted.	Deleted.	Deleted.
3.9	Portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1.~~
3.10	Portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~

Table 2.7.2-3—Safety Chilled Water System ITAAC
(5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.11	Pressure boundary welds in portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 has been performed in accordance with ASME Code Section III.
3.12	Portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.13	Portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed. ~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements. ~~For portions of the SCWS piping shown as ASME Code Section III in Figure 2.7.2-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.14	Components listed in Table 2.7.2-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.7.2-1.

3.7 Pressure boundary welds on components listed in Table 2.7.11-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.~~Deleted.~~

3.8 Components listed in Table 2.7.11-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.~~Deleted.~~

3.9 Deleted.

3.10 Deleted.

3.11 Deleted.

3.12 Portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 are designed in accordance with ASME Code Section III requirements.

3.13 Portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 are installed in accordance with an ASME Code Section III Design Report.

3.14 Pressure boundary welds in portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 are in accordance with ASME Code Section III.

3.15 Portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 retain their pressure boundary integrity at their design pressure.

3.16 Portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

4.0 I&C Design Features, Displays and Controls

4.1 Displays listed in Table 2.7.11-2— Essential Service Water System Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.7.11-2.

4.2 The ESWS equipment controls are provided in the MCR and the RSS as listed in Table 2.7.11-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.7.11-2 responds to the state requested by a test signal.

4.4 If one ESWS pump (30PEB10/20/30/40 AP001) fails during normal operation, a switchover to the other ESWS train is carried out automatically for the entire cooling train and is initiated by the CCWS Switchover sequence.

4.5 A spurious closure of the ESWS pump discharge valve (30PEB10/20/30/40 AA005) results in a switchover to the other ESWS train automatically for the entire cooling train and is initiated by the CCWS Switchover sequence.

4.6 Deleted.

4.7 Deleted.

Table 2.7.11-3—Essential Service Water System ITAAC
(6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.12	Portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1.~~
3.13	Portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~
3.14	Pressure boundary welds in portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 has been performed in accordance with ASME Code Section III.

Table 2.7.11-3—Essential Service Water System ITAAC
(6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.15	Portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.16	Portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the ESWS piping shown as ASME Code Section III in Figure 2.7.11-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
4.1	Displays exist or can be retrieved in the MCR and the RSS as identified in Table 2.7.11-2.	Inspections will be performed for the existence or retrievability of the displays in the MCR or the RSS as listed in Table 2.7.11-2.	a. The displays listed in Table 2.7.11-2 as being retrieved in the MCR can be retrieved in the MCR. b. The displays listed in Table 2.7.11-2 as being retrieved in the RSS can be retrieved in the RSS.
4.2	Controls exist in the MCR and the RSS as identified in Table 2.7.11-2.	Tests will be performed for the existence of control signals from the MCR and the RSS to the equipment listed in Table 2.7.11-2.	a. The controls listed in Table 2.7.11-2 as being in the MCR exist in the MCR. b. The controls listed in Table 2.7.11-2 as being in the RSS exist in the RSS.
4.3	Equipment listed as being controlled by a PACS module in Table 2.7.11-2 responds to the state requested by a test signal.	A test will be performed using test signals.	Equipment listed as being controlled by a PACS module in Table 2.7.11-2 responds to the state requested by the test signal.

3.5 Components listed in Table 2.8.2-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.~~Deleted.~~

3.6 Pressure boundary welds on components listed in Table 2.8.2-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.~~Deleted.~~

3.7 Components listed in Table 2.8.2-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.~~Deleted.~~

3.8 Portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 are designed in accordance with ASME Code Section III requirements.

3.9 Portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 are installed in accordance with an ASME Code Section III Design Report.

3.10 Pressure boundary welds in portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 are in accordance with ASME Code Section III.

3.11 Portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 retain their pressure boundary integrity at their design pressure.

3.12 Portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.8.2-2—MSS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.8.2-2.

4.2 The MSS equipment controls are provided in the MCR and the RSS as listed in Table 2.8.2-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.8.2-2 responds to the state requested by a test signal.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.8.2-2 are powered from the Class 1E division as listed in Table 2.8.2-2 in a normal or alternate feed condition.

5.2 Each main steam relief isolation valve fails closed on loss of electric power to the valve actuator.

5.3 Each MSIV fails closed on loss of hydraulic pressure or loss of electric power to the valve actuator.

5.4 Each turbine bypass valve fails closed on loss of power to the valve actuator.

5.5 Each main steam relief control valve, main steam warming isolation valve, and main steam warming control valve fails as-is on loss of electric power to the valve actuator.

Table 2.8.2-3—Main Steam System ~~MSS~~ ITAAC (6 Sheets)

	Commitment Wording	Inspections, Tests, Analyses	Acceptance Criteria
3.4	Components listed in Table 2.8.2-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.~~Deleted.~~	Inspections will be performed for the existence of ASME Code Section III Design Reports.~~Deleted.~~	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 2.8.2-1.~~Deleted.~~
3.5	Components listed in Table 2.8.2-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.~~Deleted.~~	Inspections will be performed to verify that the design report has been revised to reflect as-built deviations from the design if applicable.~~Deleted.~~	For components listed as ASME Code Section III in Table 2.8.2-1, the as-built component satisfies design requirements of ASME Code Section III as demonstrated in the Design Report (NCA-3550).~~Deleted.~~
3.6	Pressure boundary welds on components listed in Table 2.8.2-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.~~Deleted.~~	Inspections of pressure boundary welds will be performed to verify that welding is performed in accordance with ASME Code Section III requirements.~~Deleted.~~	For components listed as ASME Code Section III in Table 2.8.2-1, ASME Code Section III Data Reports (NCA-8000) exist and conclude that pressure boundary welding has been performed in accordance with ASME Code Section III.~~Deleted.~~
3.7	Components listed in Table 2.8.2-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure. ~~Deleted.~~	Hydrostatic tests will be performed on the as-fabricated components.~~Deleted.~~	For components listed as ASME Code Section III in Table 2.8.2-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.~~Deleted.~~
3.8	Portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1.~~

Table 2.8.2-3—Main Steam System ~~MSS~~ ITAAC (6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.9	Portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~
3.10	Pressure boundary welds in portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 has been performed in accordance with ASME Code Section III.
3.11	Portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system.	For portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.

14.03.03-38

Table 2.8.2-3—Main Steam System ~~MSS~~ ITAAC (6 Sheets)

14.03.03-38

	Commitment Wording	Inspections, Tests, Analyses	Acceptance Criteria
3.12	Portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the MSS piping shown as ASME Code Section III in Figure 2.8.2-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
4.1	Displays exist or can be retrieved in the MCR and the RSS as identified in Table 2.8.2-2.	Inspections will be performed for the existence or retrievability of the displays in the MCR or the RSS as listed in Table 2.8.2-2.	a. The displays listed in Table 2.8.2-2 as being retrieved in the MCR can be retrieved in the MCR. b. The displays listed in Table 2.8.2-2 as being retrieved in the RSS can be retrieved in the RSS.
4.2	Controls exist in the MCR and the RSS as identified in Table 2.8.2-2.	Tests will be performed for the existence of control signals from the MCR and the RSS to the equipment listed in Table 2.8.2-2.	a. The controls listed in Table 2.8.2-2 as being in the MCR exist in the MCR. b. The controls listed in Table 2.8.2-2 as being in the RSS exist in the RSS.
4.3	Equipment listed as being controlled by a PACS module in Table 2.8.2-2 responds to the state requested by a test signal.	A test will be performed using test signals. .	Equipment listed as being controlled by a PACS module in Table 2.8.2-2 responds to the state requested by the test signal.
5.1	The components designated as Class 1E in Table 2.8.2-2 are powered from the Class 1E division as listed in Table 2.8.2-2 in a normal or alternate feed condition.	a. Testing will be performed for components designated as Class 1E in Table 2.8.2-2 by providing a test signal in each normally aligned division.	a. The test signal provided in the normally aligned division is present at the respective Class 1E component identified in Table 2.8.2-2.

3.6 Components listed in Table 2.8.6-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.~~Deleted.~~

3.7 Pressure boundary welds on components listed in Table 2.8.6-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.~~Deleted.~~

3.8 Components listed in Table 2.8.6-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.~~Deleted.~~

3.9 Portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 are designed in accordance with ASME Code Section III requirements.

3.10 Portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 are installed in accordance with an ASME Code Section III Design Report.

3.11 Pressure boundary welds in portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 are in accordance with ASME Code Section III.

3.12 Portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 retain their pressure boundary integrity at their design pressure.

3.13 Portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

4.0 Instrumentation and Control (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.8.6-2—MFWS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) as listed in Table 2.8.6-2.

4.2 The MFWS equipment controls are provided in the MCR as listed in Table 2.8.6-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.8.6-2 responds to the state requested by a test signal.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.8.6-2 are powered from the Class 1E division as listed in Table 2.8.6-2 in a normal or alternate feed condition.

5.2 The main feedwater full load isolation valves (MFWFLIV) fail closed on loss of hydraulic pressure to the valve actuator.

5.3 Other valves listed in Table 2.8.6-2 except the MFWFLIVs fail as-is on loss of electric power to the valve actuator.

6.0 Environmental Qualifications

6.1 Components in Table 2.8.6-2, that are designated as harsh environment, will perform the function listed in Table 2.8.6-1 in the environments that exist during and following design basis events.~~Electrical drivers for equipment listed in Table 2.8.6-2 for harsh environment can perform the safety function in Table 2.8.6-1 following exposure to the design basis environments for the time required.~~

Table 2.8.6-3— Main Feedwater System ~~MFWS~~ ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.9	Portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1.~~
3.10	Portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information. ~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition. ~~For portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~
3.11	Pressure boundary welds in portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 has been performed in accordance with ASME Code Section III.

Table 2.8.6-3— Main Feedwater System ~~MFWS~~ ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.12	Portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.13	Portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the MFWS piping shown as ASME Code Section III in Figure 2.8.6-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
4.1	Displays exist or can be retrieved in the MCR as identified in Table 2.8.6-2.	Inspections will be performed for the existence or retrievability of the displays in the MCR as listed in Table 2.8.6-2.	The displays listed in Table 2.8.6-2 as being retrieved in the MCR can be retrieved in the MCR.
4.2	Controls exist in the MCR as identified in Table 2.8.6-2.	Tests will be performed for the existence of control signals from the MCR to the equipment listed in Table 2.8.6-2.	The controls listed in Table 2.8.6-2 as being in the MCR exist in the MCR.
4.3	Equipment listed as being controlled by a PACS module in Table 2.8.6-2 responds to the state requested by a test signal.	A test will be performed using test signals.	Equipment listed as being controlled by a PACS module in Table 2.8.6-2 responds to the state requested by the test signal.

3.9 Portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 are installed in accordance with an ASME Code Section III Design Report.

3.10 Pressure boundary welds in portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 are in accordance with ASME Code Section III.

3.11 Portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 retain their pressure boundary integrity at their design pressure.

3.12 Portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

4.0 Instrumentation and Controls (I&C) Design Features, Displays, and Controls

4.1 Displays listed in Table 2.8.7-2—SGBS Equipment I&C and Electrical Design are retrievable in the main control room (MCR) and the remote shutdown station (RSS) as listed in Table 2.8.7-2.

4.2 SGBS equipment controls are provided in the MCR and the RSS as listed in Table 2.8.7-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 2.8.7-2 responds to the state requested by a test signal.

4.4 The SGBS has an interlock to close the blowdown isolation valves if there is an EFW actuation signal.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 2.8.7-2 are powered from the Class 1E division as listed in Table 2.8.7-2 in a normal or alternate feed condition.

5.2 Valves listed in Table 2.8.7-2 fail as-is on loss of power.

6.0 Environmental Qualifications

6.1 Components in Table 2.8.7-2, that are designated as harsh environment, will perform the function listed in Table 2.8.7-1 in the environments that exist during and following design basis events. ~~Electrical drivers for equipment listed in Table 2.8.7-2 for harsh environment can perform the safety function in Table 2.8.7-1 following exposure to the design basis environments for the time required.~~

7.0 Equipment and System Performance

7.1 Class 1E valves listed in Table 2.8.7-2 can perform the function listed in Table 2.8.7-1 under system operating ~~design~~ conditions.

7.2 Containment isolation valves listed in Table 2.8.7-1 close within the containment isolation response time following initiation of a containment isolation signal.

Table 2.8.7-3—Steam Generator Blowdown System ~~SGBS~~
ITAAC (5 Sheets)

	Commitment Wording	Inspections, Tests, Analyses	Acceptance Criteria
3.8	Portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3550) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3550) exist and conclude that portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1.~~
3.9	Portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3550) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information. ~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition. ~~For portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~

Table 2.8.7-3—Steam Generator Blowdown System ~~SGBS~~
ITAAC (5 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.10	Pressure boundary welds in portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 has been performed in accordance with ASME Code Section III.
3.11	Portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.12	Portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the SGBS piping shown as ASME Code Section III in Figure 2.8.7-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
4.1	Displays exist or can be retrieved in the MCR and the RSS as identified in Table 2.8.7-2.	Inspections will be performed for the existence or retrieveability of the displays in the MCR or the RSS as listed in Table 2.8.7-2.	a. The displays listed in Table 2.8.7-2 as being retrieved in the MCR can be retrieved in the MCR. b. The displays listed in Table 2.8.7-2 as being retrieved in the RSS can be retrieved in the RSS.

3.9 Pressure boundary welds in portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 are in accordance with ASME Code Section III.

3.10 Portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 retain their pressure boundary integrity at their design pressure.

3.11 Portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 are installed and inspected in accordance with ASME Code Section III requirements.

14.03.03-38

3.12 Components listed in Table 3.5-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.

3.13 Components listed in Table 3.5-1 as ASME Code Section III are fabricated in accordance with ASME Code Section III requirements.

3.14 Pressure boundary welds on components listed in Table 3.5-1 as ASME Code Section III are in accordance with ASME Code Section III requirements.

3.15 Components listed in Table 3.5-1 as ASME Code Section III retain their pressure boundary integrity at their design pressure.

4.0 I&C Design Features, Displays and Controls

4.1 Displays listed in Table 3.5-2—Containment Isolation Equipment I&C and Electrical Design are retrievable in the main control room (MCR) as listed in Table 3.5-2.

4.2 The containment isolation equipment controls are provided in the MCR as listed in Table 3.5-2.

4.3 Equipment listed as being controlled by a priority and actuator control system (PACS) module in Table 3.5-2 responds to the state requested by a test signal.

5.0 Electrical Power Design Features

5.1 The components designated as Class 1E in Table 3.5-2 are powered from the Class 1E division as listed in Table 3.5-2 in a normal or alternate feed condition.

5.2 Valves listed in Table 3.5-2 fail as-is on loss of power.

5.3 Containment electrical penetrations routing Class 1E cables have only Class 1E cables or associated cables.

5.4 Separation exists between containment electrical penetration assemblies routing each division of Class 1E cables, and between assemblies containing Class 1E and non-Class 1E cables.

5.5 Containment electrical penetrations are protected from fault currents that are greater than their continuous current rating.

Table 3.5-3—Containment Isolation ITAAC (6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.5	Deleted.	Deleted.	Deleted.
3.6	Deleted.	Deleted.	Deleted.
3.7	Portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 are designed in accordance with ASME Code Section III requirements. 14.03.03-38	Inspections of the ASME Code Section III Design Reports (NCA-3350) and associated reference documents will be performed. ~~Inspections will be performed for the existence of ASME Code Section III Design Reports.~~	ASME Code Section III Design Reports (NCA-3350) exist and conclude that portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 comply with ASME Code Section III requirements. ~~ASME Code section III Design Reports (NCA-3550) exist for portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1.~~
3.8	Portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 are installed in accordance with an ASME Code Section III Design Report.	Analyses to reconcile as-installed deviations to the ASME Code Design Reports (NCA-3350) will be performed. Piping analyzed using time-history methods will be reconciled to the as-built information.~~Inspections will be performed to verify the existence of an analysis which reconciles as-fabricated deviations to the ASME Code Design Report as required by ASME Code Section III.~~	For portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1, ASME Code Data Reports (N-5) exist and conclude that design reconciliation (NCA-3554) has been completed in accordance with the ASME Code Section III for the as-installed system. The report(s) document the as-installed condition.~~For portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1, ASME Code Data Reports (N-5) exist and conclude that reconciliation (NCA-3554) of the as-installed system with the Design Report (NCA-3550) has occurred.~~

Table 3.5-3—Containment Isolation ITAAC (6 Sheets)

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
3.9	Pressure boundary welds in portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 are in accordance with ASME Code Section III.	Inspections of pressure boundary welds verify that welding is performed in accordance with ASME Code Section III requirements.	ASME Code Section III Data Reports exist and conclude that pressure boundary welding for portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 has been performed in accordance with ASME Code Section III.
3.10	Portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 retain their pressure boundary integrity at their design pressure.	Hydrostatic tests will be performed on the as-fabricated system. 14.03.03-38	For portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1, ASME Code Section III Data Reports exist and conclude that hydrostatic test results comply with ASME Code Section III requirements.
3.11	Portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1 are installed and inspected in accordance with ASME Code Section III requirements.	An inspection of the piping will be performed.~~An inspection for the existence of ASME N–5 Data Reports will be performed.~~	For portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1, N–5 Data Reports exist and conclude that installation and inspection are in accordance with ASME Code Section III requirements.~~For portions of the containment isolation piping shown as ASME Code Section III in Figure 3.5-1, N–5 Data Reports exist and conclude that installation is in accordance with ASME Code Section III requirements.~~
3.12	Components listed in Table 3.5-1 as ASME Code Section III are designed in accordance with ASME Code Section III requirements.	Inspections will be performed for the existence of ASME Code Section III Design Reports.	ASME Code Section III Design Reports (NCA-3550) exist for components listed as ASME Code Section III in Table 3.5-1.