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U. S. Nuclear Regulatory Commission
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Braidwood Station, Unit 1
Facility Operating License Nos. NPF-72
NRC Docket No. STN 50-456

Subject: Braidwood Station, Unit 1 Inservice Inspection Summary Report

Enclosed is the post-outage summary report (i.e., the 90 day report) for Inservice Inspection examinations conducted during the Braidwood Station, Unit 1 twelfth refueling outage (A1R12). This report is submitted in accordance with the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, "Rules for the Inservice Inspection of Nuclear Power Plant Components," Article IWA-6200, "Requirements."

Please direct any questions you may have regarding this submittal to Mr. Dale Ambler, Regulatory Assurance Manager, at (815) 417-2800.

Sincerely,



Keith J. Polson
Site Vice President
Braidwood Station

Enclosure: Braidwood Station ISI Outage Report for A1R12

BRAIDWOOD STATION

UNIT 1 INSERVICE INSPECTION SUMMARY REPORT FOR:

**Interval 2, Period 3, Outage 1
A1R12 Outage**

STATION ADDRESS:

**Braidwood Station
35100 S. Rt. 53 Suite 84
Braceville, Illinois 60407**

UNIT 1 COMMERCIAL SERVICE DATE:

July 29, 1988

OWNER'S ADDRESS:

**Exelon Generation Co., LLC
300 Exelon Way
Kennett Square PA 19348**

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1.0 INSPECTION INFORMATION

1.1 Summary

Second Interval Inservice Inspections (ISI) of ASME Class 1, 2, and 3 components were conducted at Braidwood Station Unit 1 between November 19, 2003 to May 5, 2006, with the majority of these inspections being performed during the Braidwood Station Unit 1 twelfth refueling outage (A1R12). This outage is reflected in the Braidwood ISI schedule by the code 231 (Interval 2, Period 3, Outage 1).

The examinations were performed in accordance with the rules and regulations of Section XI, Division 1, "Rules for Inservice Inspection of Nuclear Power Plant Components," of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, 1989 Edition, no addenda, pursuant to the requirements of Title 10, Part 50.55a of the Code of Federal Regulations (10CFR50.55a).

The Containment Inspection Program was developed and implemented in accordance with the requirements and intent of Subsections IWE and IWL of ASME Section XI, 1992 Edition through the 1992 Addenda, pursuant to the requirements of 10CFR50.55a.

In addition to the ASME Section XI requirements, certain NRC augmented ISI inspections were required during A1R12. The Braidwood Unit 1 augmented ISI examinations included:

- a) Examination of the Class 1 pressure boundary for leakage at nominal operating pressure, in accordance with Generic Letter 88-05.
- b) Bare Metal Visual examination of the Unit 1 pressurizer steam space nozzles in accordance with Braidwood Station response to NRC Bulletin 2004-01, "Inspection of Alloy 82/182/600 Materials Used in the Fabrication of Pressurizer Penetrations and Steam Space Piping Connections at Pressurized-Water Reactors".
- c) Visual and volumetric examinations of pressure retaining components above the reactor vessel head and volumetric examination of reactor vessel head penetrations in accordance with First Revised NRC Order EA-03-009.

There were no significant findings associated with any of the augmented ISI examinations. Reports for these examinations have been submitted under separate transmittals when required.

1.2 Identification of Examination Requirements

The Second Interval ISI Program contains the Component Selection tables. These tables are presented in a tabular format consistent with the tables found in subsections IWB, IWC, IWD, IWE, and IWF-2500 of the ASME code. The NDE tables include the corresponding code category, item number, and component/weld population selection in conformance with examination requirements and intent of Subsection IWA, IWB, IWC, IWD, IWE, and IWF of Section XI of the ASME Code. Program notes and relief requests and additional information are identified in the basis column.

1.3 Exempted Components

ASME Class 1, 2, and 3 components (or parts of components) that are not included in the Component inspection tables and that are exempt from examination, as specified in Section XI Subsection IWB, IWC, IWD, and IWF are identified in the Braidwood Station Boundary Basis document, along with reference to the justification(s) for exempting the component/system.

1.4 ISI Program Implementation

Braidwood Station personnel, or their designee, visually examined (VT-1, VT-2, VT-3, VT-1C, and VT-3C) and/or NDE examined (UT, PT, MT) ASME components. The components examined comply with the ISI Program Schedule, Braidwood Station Technical Specifications (TS), and/or compliance with the ASME Section XI Repair/Replacement Program. All ISI NDE, including evaluation of flaw indications, were performed in accordance with the requirements stipulated under Section XI, Sub-article IWA-2200: "Examination Methods".

Certified personnel performed and evaluated all NDE. Personnel were certified to the requirements of the American Society for Non-destructive Testing SNT-TC-1A, 1984 Edition. The NDE procedures were developed and certified in conformance with ASME Section V and XI, 1989 Edition, as applicable. In addition, ultrasonic examination personnel were qualified in accordance with ANSI/ASME CP-189, 1995.

Certified personnel performed and evaluated visual examinations (VT-1, VT-2, and VT-3) of Class 1, 2, and 3 components and supports. Personnel were certified to the requirements of the American Society for Non-destructive Testing SNT-TC-1A, 1984 Edition and/or ASME Section XI 1989, as applicable.

Certified personnel performed and evaluated visual examinations (VT-1, VT-3, VT-1C and VT-3C) of Containment Structures. Personnel were certified to the requirements of the ANSI/ASNT CP-189, 1991 revision, and/or ASME Section XI 1992 through 1992 Addenda, as applicable.

1.5 Witness and Verification of Examination

The inservice inspections were witnessed and/or verified by the Authorized Nuclear Inservice Inspectors (ANII), L. Malabanan and R. White. The inspectors are associated with Hartford Steam Boiler Inspection and Insurance Company of Connecticut, Chicago Branch, at 2443 Warrenville Rd., Suite 500, Lisle, Illinois 60532.

2.0 INSERVICE EXAMINATION SUMMARY

The following is a summary of ASME Section XI, Risk Informed ISI, and augmented examinations performed during the Braidwood Station Unit 1 A1R12 refueling outage. Refer to the component detailed examination tabulations of Section 3.0 for additional information on specific welds, components, supports, snubbers and pressure test examinations and their respective results.

2.1 Inservice Weld/Component Summary

System	Number of Welds / Components*
Containment Spray (CS)	1
Chemical & Volume Control (CV)	12
Feedwater (FW)	15
Main Steam (MS)	10
Reactor Coolant (RC)	16
Residual Heat Removal (RH)	1
Reactor Coolant (RY)	14
Steam Generator (SG)	4
Safety Injection (SI)	4
Essential Service Water (SX)	1
TOTALS	78

* Non-Section XI Augmented examinations and Risk Informed ISI socket weld VT-2 examinations are not included in these counts but are contained in Section 3.1.

2.2 Inservice Component Support Summary

SYSTEM EXAMINED	Number of Component Supports
Containment Spray (CS)	5
Chemical & Volume Control (CV)	4
Feedwater (FW)	2
Reactor Coolant (RC)	8
Residual Heat Removal (RH)	4
Reactor Coolant (RY)	1
Safety Injection (SI)	25
Essential Service Water (SX)	1
TOTALS	50

2.3 Inservice Snubber Summary

SYSTEM EXAMINED	Number of Snubbers VT-3/4	Number of Snubbers Functionally Tested
Chemical & Volume Control (CV)	1	1
Main Steam (MS)	8	7
Reactor Coolant (RC)	24	18
Residual Heat Removal (RH)	4	4
Reactor Coolant (RY)	10	10
Safety Injection (SI)	21	21
TOTALS	68	61

2.4 Inservice Pressure Test Summary

2.4.1 Pressure Test Test-Block Inspection Summary

Summary of components contained in this table are those pressure test blocks that were examined for Section XI Inservice Inspection credit. Braidwood has adopted Code Case N-522 as previously approved for use in Regulatory Guide 1.147 Revision 13, "Inservice Inspection Code Case Acceptability, ASME Section XI, Division 1" for systems penetrating primary containment.

System	Class	Number of Test Blocks Examined
Containment Spray (CS)	2	3*
Fuel Pool Cooling (FC)	2	2*
Process Sampling (PS)	2	1*
Safety Injection (SI)	2	1**
Plant Systems Pressurized During Mode 3 (ZZ)	1 & 2	4**
TOTALS		11

* Tests credited to the second period. Tests were completed after the A1R11 report was submitted.

** Portion of three test blocks (A01SI-000005-M04-02H, A01ZZ-000005-M04-02A, and A01ZZ-000005-M04-02B) were completed during A1R12, the remainder of these test blocks will be completed in A1R13.

2.4.2 Borated Bolting Inservice Inspection Summary

Summary of components contained in this table are those insulated borated bolted connections that were examined for Section XI Inservice Inspection credit. Inspections on these connections are performed per the commitments in Relief Request I2R-12, I2R-13, and I2R-30, as applicable, of the ISI Program Plan.

SYSTEM EXAMINED	Number of Connections Examined by VT-2	Number of Connections Examined by VT-1
Chemical & Volume Control (CV)	17	1
Pressurizer (RY)	1	0
Reactor Coolant (RC)	13	0
Residual Heat Removal (RH)	12	1
TOTALS	43	2

2.5 Steam Generator (SG) Eddy Current Testing Summary

In compliance with Braidwood Station Technical Specification (TS) 5.5.9, "Steam Generator Tube Surveillance Program," and American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code Section XI 1989 Edition, IWB 2500-1, Examination Category B-Q, Item B16.20, SG eddy current examinations were performed during the Braidwood Station Unit 1 Cycle 12 refueling outage (A1R12). In addition, the inspections were performed consistent with the Electric Power Research Institute (EPRI) "PWR Steam Generator Examination Guidelines," Revision 6, and Nuclear Energy Institute NEI 97-06, "Steam Generator Program Guidelines," Revision 2.

The following inspections were performed during this outage.

- 100% full length bobbin coil eddy current in all four SGs
- 20% hot leg top of tubesheet (+/- 3 inches) +Point™ eddy current in all four SGs
- 20% hot leg dents and dings ≥ 2.0 volts +Point™
- Diagnostic +Point™ eddy current based on bobbin coil eddy current results
- 100% Visual Inspection of Previously Installed Tube Plugs
- 100% Visual Inspection of Newly Installed Tube Plugs

The modes of tube degradation found during A1R12 were fan bar wear, lattice grid wear and foreign object wear.

As a result of the eddy current inspection of the SGs, a total of 28 tubes were removed from service by mechanical tube plugging. The 28 tubes were removed from service due to either having wear associated with secondary side foreign objects or were required to be removed from service in order to bound high flow locations where secondary side foreign objects could not be retrieved.

One tube in the 1A SG had tube wear greater than the TS plugging limit of $\geq 40\%$. Pursuant to TS 5.5.9.c, "Inspection Results Classification," the 1A SG was classified as inspection category C-2. No additional scope expansion was required since 100% full-length bobbin eddy current inspection was already being performed in the 1A SG.

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One tube in the 1B SG had tube wear greater than the TS plugging limit of $\geq 40\%$. Pursuant to TS 5.5.9.c, "Inspection Results Classification," the 1B SG was classified as inspection category C-2. No additional scope expansion was required since 100% full-length eddy current inspection was already being performed in the 1B SG.

There were no tubes containing wear greater than the TS plugging limit of $\geq 40\%$ in the 1C and 1D SGs. Pursuant to TS 5.5.9.c, "Inspection Results Classification," the 1C and 1D SGs were classified as inspection category C-1.

There were no scanning limitations during the eddy current examinations. The table below, "Equivalent Tube Plugging Level," provides the total tube plugging history and equivalent plugging levels to-date for the Braidwood Station, Unit 1 SGs. Note: The Braidwood Unit 1 steam generators were replaced during the Cycle 7 refueling outage (November 1998).

Equivalent Tube Plugging Level

	SG A	SG B	SG C	SG D	Total
Tubes Plugged at Factory	1	2	0	0	3
Tubes Plugged in A1R08	1	0	0	0	1
Tubes Plugged in A1R10	8	10	3	0	21
Tubes Plugged in A1R11	0	2	2	1	5
Tubes Plugged in A1R12	11	17	0	0	28
Total Tubes Plugged	21	31	5	1	58
Total Tubes Plugged (%)	0.32%	0.92%	0.08%	0.02%	0.22%

Note: Steam Generator Inspections Were Not Performed During A1R09.

Additional information concerning the steam generator eddy current inspection results can be obtained in the report submitted to the Nuclear Regulatory Commission as required by Technical Specification 5.6.9.

3.0 COMPONENT DETAILED EXAMINATION TABLES

3.1 Detailed Inservice Weld/Component Table(s):

The table for this section (Pages 3-5 to 3-22) lists the examinations performed for Section XI Inservice and Augmented Inspection requirements for Class 1 and 2 welds and components. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

Section XI Cat. Item	ISI Identifier Description	Line Number/EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(J)	(K)							

3.1.1 Detailed Preservice Weld/Component Table(s):

The table for this section (Page 3-23) lists the baseline examinations performed for Section XI Preservice Inspection requirements for Class 1 components replaced during A1R12. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

Section XI Cat. Item	ISI Identifier Description	Line Number/EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(J)	(K)							

3.2 Detailed Inservice Component Support Table:

The table for this section (Pages 3-24 to 3-32) lists the examinations performed for Section XI Inservice Inspection requirements for Class 1 and 2 component supports. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

Section XI Cat. Item	ISI Identifier Description	Line Number/EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
(A)	(B)	(C)	(D)	(E)	(G)	(I)
(J)	(K)					

3.3 Detailed Inservice Snubber Table:

The table for this section (Pages 3-33 to 3-41) lists the examinations performed for Section XI Inservice Inspection requirements for Class 1 and 2 snubbers. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

Section XI Cat. Item	ISI Identifier Description	Line Number/EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
(A)	(B)	(C)	(D)	(E)	(G)	(I)
(J)	(K)					

3.3.1 Detailed Preservice Snubber Table:

The table for this section (Pages 3-42 to 3-43) lists the baseline examinations performed for Section XI Preservice Inspection requirements for Class 1 and 2 snubbers replaced during A1R12. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

Section XI Cat. Item	ISI Identifier Description	Line Number/EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
(A)	(B)	(C)	(D)	(E)	(G)	(I)
(J)	(K)					

3.4 Detailed Inservice Pressure Test Table(s):

The table for this section (Pages 3-44 to 3-48) lists the examinations performed for Section XI Inservice and Augmented Inspection requirements for Class 1 and 2 pressure test blocks. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					
(A)	(B)	(D)	(E)	(G)	(I)
(J)	(K)				

3.4.2 Borated Bolted Connection Inspections

The table for this section (Pages 3-49 to 3-53) lists the examinations performed for Inservice Inspection pressure testing requirements of Section XI Class 1 and 2 borated bolted connections. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					
(A)	(B)	(D)	(E)	(G)	(I)
(J)	(K)				

3.5 General Inservice Report Information

3.5.1 Report Column Descriptions

- (A) This column contains the Section XI Category and Item identifiers for the specified component. There are special cases, like snubbers, where an "S" has been added to the end of the Section XI Item identifier. This was done to allow easy sorting of the snubber population by the ISI database.
- (B) This column contains the ISI Identifier that the ISI Program uses to distinguish components.
- (C) This column contains the line number or equipment piece number (EPN) associated with the component for identification.
- (D) This column identifies the ISI Program Plan relief request(s) that is associated with that component. A complete copy of the relief request can be found in the ISI Program Plan.
- (E) This column identifies the ISI Program Plan note(s) that is associated with that component. A complete copy of the Program note can be found in the ISI Program Plan.
- (F) This column identifies the percentage of code coverage achieved for the associated volumetric examination for that component.
- (G) This column summarizes the exams performed during this outage for the associated component.
- (H) This column identifies actual exams performed during this outage for the associated component.
- (I) This column summarizes the results for exams performed during this outage for the associated component.
- (J) This row states inspection comments, when applicable, for the associated component.
- (K) This column specifies the description of the associated component.

3.5.2 Report Abbreviations

BMV	- Bare Metal Visual Inspection
FUNCT	- Snubber Functional Test
GE/IND	- Geometry/Indication
GEOM	- Geometry
IND	- Indication
IR	- Issue Report
NRI	- No Recordable Indications
MT	- Magnetic Particle Inspection
PT	- Liquid Penetrant Inspection
SUR	- Surface Exam
TBD	- To Be Developed
WO	- Work Order
UT	- Ultrasonic Inspection
VOL	- Volumetric Exam
VOL-E	- Volumetric Exam of an Extended Volume
VT	- Visual Inspection

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Containment Spray System (CS)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
C-C C03.20	1CS-02-SW01 360 DEGREE WELDED PIPE SADDLE	1CS10AA-6"	I2R-15	NOTE 4	100	SUR	PT	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11	1CV-05-03 PIPE - ELBOW	1CVA3B-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-05-04 ELBOW - PIPE	1CVA3B-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-05-05 PIPE - ELBOW	1CVA3B-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-05-06 ELBOW - PIPE	1CVA3B-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-05-13 PIPE - ELBOW	1CVA3B-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-05-14.01 ELBOW - PIPE	1CVA3B-2"		NOTE 4		VT-2	VT-2	NRI
B-G-2 B07.50	1CV-06-B1 FLANGE BOLTING (4 STUDS)	1CV14GA-1.5"				VT-1	VT-1	NRI
B-G-2 B07.50	1CV-06-B2 FLANGE BOLTING (4 STUDS)	1CV14GD-1.5"				VT-1	VT-1	NRI
R-A R01.11	1CV-11-06 PIPE - ELBOW	1CVA6AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-11-07 ELBOW - PIPE	1CVA6AA-2"		NOTE 4		VT-2	VT-2	NRI
B-G-2 B07.50	1CV-16-B1 FLANGE BOLTING (4 STUDS)	1CV14GC-1.5"				VT-1	VT-1	NRI
R-A R01.20	1CV-21-01 1CV01PA-1 PUMP CASING - FLANGE	1CV01PA		NOTE 4 NOTE 7	50	VOL-E	UT-35 UT-45 UT-60L	NRI NRI NRI
R-A R01.20	1CV-21-03 ELBOW - ELBOW	1CV08AA-4"		NOTE 4 NOTE 7	93.5	VOL-E	UT-35 UT-45 UT-60L	NRI NRI NRI
R-A R01.20	1CV-21-04 ELBOW - PIPE	1CV08AA-4"		NOTE 4 NOTE 7	98.7	VOL-E	UT-35 UT-45 UT-60L	NRI NRI NRI
R-A R01.20	1CV-21-07 VALVE 1CV8481A - PIPE	1CV08AA-4"		NOTE 4 NOTE 7	50	VOL	UT-45 UT-60L	NRI NRI
R-A R01.20	1CV-21-08 PIPE - TEE	1CV08AA-4"		NOTE 4 NOTE 7	50	VOL-E	UT-45 UT-60L	NRI NRI
R-A R01.20	1CV-21-11 ELBOW - PIPE	1CV08AA-4"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.20	1CV-21-12 PIPE - ELBOW	1CV08AA-4"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.20	1CV-21-13 ELBOW - PIPE	1CV08AA-4"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11	1RC-36-15 PIPE - ELBOW	1CVA3AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-16 ELBOW - PIPE	1CVA3AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-17 PIPE - ELBOW	1CVA3AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-18 ELBOW - PIPE	1CVA3AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-11 PIPE - ELBOW	1CVA7AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-12 ELBOW - PIPE	1CVA7AA-2"		NOTE 4		VT-2	VT-2	NRI
C-C C03.30	1RHP-01-CVP-01 (A PUMP) CV01PA PUMP SUPPORT PAD		I2R-02 I2R-15	NOTE 4	100 77.7	VT-1 SUR		NRI NRI
Examination and coverage achieved in accordance with Relief Request I2R-02. Limitations for attachments CVP-2 and CVP-4 reduce liquid penetrant examination coverage to 77.7%								

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Feedwater System (FW)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11 R01.18	1FW-01-19 PIPE - ELBOW	1FW03DD-16"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-01-20 ELBOW - PIPE	1FW03DD-16"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-01-33 PIPE - ELBOW	1FW03DD-16"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-03-04 VALVE 1FW009B - PIPE	1FW03DB-16"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 UT-60	NRI NRI
R-A R01.11 R01.18	1FW-03-05 PIPE - PIPE	1FW03DB-16"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-03-05A PIPE - PENETRATION (1PC-084)	1FW03DB-16"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-04-04B PIPE - PIPE	1FW03DC-16"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-04-05 PIPE - PENETRATION (1PC-087)	1FW03DC-16"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-04-17 PIPE - ELBOW	1FW03DC-16"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-04-18 ELBOW - PIPE	1FW03DC-16"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-04-19 PIPE - ELBOW	1FW03DC-16"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-05-29 PIPE - TEE	1FW81BB-6"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 UT-45	NRI NRI
Two different examination frequencies (2.25 MHz and 5.0 MHz) were utilized.								
R-A R01.11 R01.18	1FW-05-31 TEE - PIPE	1FW87CB-6"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 UT-45	NRI NRI
Two different examination frequencies (2.25 MHz and 5.0 MHz) were utilized.								
R-A R01.11 R01.18	1FW-05-36 PIPE - 16"x6" VESSELET	1FW87CB-6"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45	NRI
R-A R01.11 R01.18	1FW-10-32 TEE - PIPE	1FW87CC-6"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 UT-45	NRI GEO
Two different examination frequencies (2.25 MHz and 5.0 MHz) were utilized.								

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Main Steam System (MS)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
C-C	C03.20	1MS-01-SW08 TO SW09 (8) LUG ATTACH. FOR 1MS08007S	1MS01AD-30.25"	I2R-15	NOTE 4	100	SUR	MT MT NRI NRI
R-A	R01.20	1MS-06-30 PIPE - ELBOW	1MS13AB-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 NRI
R-A	R01.20	1MS-06-31 ELBOW - PIPE	1MS13AB-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 NRI
R-A	R01.20	1MS-06-32 PIPE - ELBOW	1MS13AB-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 NRI
R-A	R01.20	1MS-06-33 ELBOW - PIPE	1MS13AB-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 NRI
R-A	R01.20	1MS-06-34 PIPE - ELBOW	1MS13AB-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL	UT-45 NRI
R-A	R01.20	1MS-08-34 ELBOW - PIPE	1MS13AC-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 NRI
R-A	R01.20	1MS-08-35 PIPE - ELBOW	1MS13AC-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 NRI
R-A	R01.20	1MS-08-36 ELBOW - PIPE	1MS13AC-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 NRI
R-A	R01.20	1MS-08-37 PIPE - ELBOW	1MS13AC-8"		NOTE 4 NOTE 5 NOTE 7	100	VOL-E	UT-45 NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.20	1RC-02-04A BRANCH CONNECTION - THERMOWELL	THERMOWELL		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-02-09 10" BRANCH NOZZLE - 27.5" PIPE	1RC29AB-10"		NOTE 4	100	VOL-E	UT-45L	NRI
R-A R01.20	1RC-03-21A BRANCH CONNECTION - THERMOWELL	THERMOWELL		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-17-05 PIPE - ELBOW	1RC24AA-4"		NOTE 4	100	VOL-E	UT-45	NRI
R-A R01.20	1RC-17-06 ELBOW - PIPE	1RC24AA-4"		NOTE 4	100	VOL-E	UT-45	NRI
R-A R01.20	1RC-17-09 ELBOW - PIPE	1RC24AA-4"		NOTE 4	100	VOL-E	UT-45	NRI
R-A R01.20	1RC-17-10 PIPE - PIPE	1RC24AA-4"		NOTE 4	100	VOL-E	UT-45	NRI
R-A R01.20	1RC-17-11 PIPE - ELBOW	1RC24AA-4"		NOTE 4	100	VOL-E	UT-45	NRI
R-A R01.20	1RC-17-13 PIPE - VALVE 1RY022	1RC24AA-4"		NOTE 4	50	VOL-E	UT-45	NRI
R-A R01.20	1RC-23-01 3"x1.5" REDUCER - PIPE	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-23-02 PIPE - ELBOW	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-23-03 ELBOW - PIPE	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-23-04 PIPE - ELBOW	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-23-05 ELBOW - PIPE	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-27-04AA PIPE - ELBOW	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-27-05AA ELBOW - PIPE	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-27-06AA PIPE - ELBOW	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-27-07AA ELBOW - PIPE	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-27-08AA PIPE - VALVE 1RC8045A	1RC22AA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-01-03 PIPE - BRANCH CONNECTION	1RC16AC-2"		NOTE 4		VT-2	VT-2	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11	1RC-29-01-04 PIPE - BRANCH CONNECTION	1RC16AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-02-03 ELBOW - PIPE	1RC16AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-02-04 ELBOW - PIPE	1RC16AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-03-03 PIPE - ELBOW	1RC16AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-03-04 PIPE - ELBOW	1RC16AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-04-03 ELBOW - PIPE	1RC16AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-04-04 ELBOW - PIPE	1RC16AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-05-03 PIPE - ELBOW	1RC16AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-05-04 PIPE - ELBOW	1RC16AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-06-03 VALVE 1RC8038C - PIPE	1RC16AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-29-06-04 VALVE 1RC8038D - PIPE	1RC16AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-31-01 BRANCH CONNECTION - PIPE	1RC14AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-31-02 PIPE - VALVE 1RC8039B	1RC14AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-31-03 VALVE 1RC8039B - PIPE	1RC14AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-31-04 PIPE - TEE	1RC14AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-31-05 TEE - 2"X.75" REDUCER	1RC14AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-31-06 TEE - PIPE	1RC14AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-31-07 PIPE - VALVE 1RC8037B	1RC14AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.20	1RC-31-08 BRANCH CONNECTION - PIPE	1RC26A-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-01 BRANCH CONNECTION - PIPE	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11	1RC-36-02 PIPE - ELBOW	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-03 ELBOW - PIPE	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-04 PIPE - VALVE 1RC8039A	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-05 VALVE 1RC8039A - PIPE	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-06 PIPE - TEE	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-07 TEE - 2"X.75" REDUCER	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-08 TEE - PIPE	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-09 PIPE - VALVE 1RC8037A	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-20 PIPE - TEE	1RC14AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-36-22 TEE - 2"X1" REDUCER	1RC86AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-01 BRANCH - PIPE	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-02 PIPE - ELBOW	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-03 ELBOW - PIPE	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-04 PIPE - VALVE 1RC8039D	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-05 VALVE 1RC8039D - PIPE	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-06 PIPE - TEE	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-07 TEE - 2"X.75" REDUCER	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-08 TEE - PIPE	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-37-09 PIPE - VALVE 1RC8037D	1RC14AD-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-01AA PIPE - BRANCH CONNECTION	1RC16AA-2"		NOTE 4		VT-2	VT-2	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11	1RC-41-01AB PIPE - BRANCH CONNECTION	1RC16AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-02AA ELBOW - PIPE	1RC16AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-02AB ELBOW - PIPE	1RC16AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-03AA PIPE - ELBOW	1RC16AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-03AB PIPE - ELBOW	1RC16AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-04AA ELBOW - PIPE	1RC16AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-04AB VALVE 1RC8038B - PIPE	1RC16AB-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-05AA PIPE - ELBOW	1RC16AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-41-06AA VALVE 1RC8038A - PIPE	1RC16AA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-01 BRANCH CONNECTION - PIPE	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-02 PIPE - ELBOW	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-03 ELBOW - PIPE	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-04 PIPE - VALVE 1RC8039C	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-05 VALVE 1RC8039C - PIPE	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-06 PIPE - TEE	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-07 TEE - 2"X3/4" REDUCER	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-08 TEE - PIPE	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-09 PIPE - VALVE 1RC8037C	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-10 PIPE - TEE	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1RC-42-11 TEE - PIPE	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11	1RC-42-12 TEE - 2"X1" REDUCER	1RC14AC-2"		NOTE 4		VT-2	VT-2	NRI
B-G-1 B06.180 B06.190	1RCP-01-RCP-PA-01 TO 24 RCP MAIN FLANGE BOLT(01 TO 24)	1RC01PA		NOTE 2		VT-1	VT-1	NRI
R-A R01.15 I-600	1RV-01-022 NOZZLE - SAFE END (22 DEG.)	1RC01R	I2R-16	NOTE 4		BMV	BMV	NRI
Bare metal visual examination in accordance with MRP 2003-039.								
R-A R01.15 I-600	1RV-01-023 SAFE END - NOZZLE (67 DEG.)	1RC01R	I2R-16	NOTE 4		BMV	BMV	NRI
Bare metal visual examination in accordance with MRP 2003-039.								
R-A R01.15 I-600	1RV-01-024 SAFE END - NOZZLE (113 DEG.)	1RC01R	I2R-16	NOTE 4		BMV	BMV	NRI
Bare metal visual examination in accordance with MRP 2003-039.								
R-A R01.15 I-600	1RV-01-025 NOZZLE - SAFE END (158 DEG.)	1RC01R	I2R-16	NOTE 4		BMV	BMV	NRI
Bare metal visual examination in accordance with MRP 2003-039.								
R-A R01.15 I-600	1RV-01-026 NOZZLE - SAFE END (202 DEG.)	1RC01R	I2R-16	NOTE 4		BMV	BMV	NRI
Bare metal visual examination in accordance with MRP 2003-039.								
R-A R01.15 I-600	1RV-01-027 SAFE END - NOZZLE (247 DEG.)	1RC01R	I2R-16	NOTE 4		BMV	BMV	NRI
Bare metal visual examination in accordance with MRP 2003-039.								
R-A R01.15 I-600	1RV-01-028 SAFE END - NOZZLE (293 DEG.)	1RC01R	I2R-16	NOTE 4		BMV	BMV	NRI
Bare metal visual examination in accordance with MRP 2003-039.								
R-A R01.15 I-600	1RV-01-029 NOZZLE - SAFE END (338 DEG.)	1RC01R	I2R-16	NOTE 4		BMV	BMV	NRI
Bare metal visual examination in accordance with MRP 2003-039.								
B-E B04.13 I-600	1RV-02-INSTR. NOZZLES RX VESSEL INSTRUMENTATION NOZ.	1RC01R				VT-2	VT-2	NRI
B-G-1 B06.10	1RV-03-NUTS (01 TO 54) CLOSURE HEAD NUTS (54 TOTAL)	1RC01R	I2R-19			VT-1	VT-1	NRI
Examined nuts 89-2-4014-51-27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 per original scope. Also examined 31 per request of Reactor Services to check for damage from stud detensioner.								
B-G-1 B06.30	1RV-03-STUDS(01 TO 54) CLOSURE HEAD STUDS (54 TOTAL)	1RC01R				VOL	UT-0	NRI
Examined studs in stud holes 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, and 40. Surface examination is no longer required per Code Case N-652 approved in Regulatory Guide 1.147, Revision 14.								
B-G-1 B06.50	1RV-03-WASHERS CLOSURE WASHERS (01 TO 54)	1RC01R				VT-1	VT-1	NRI
Examined 89-44014-51 Top Washers (89-A3-4014-51 Bottom Washers) - 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45.								

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
B-Q B16.20	1SG-05-1RC01BA TUBING1RC01BA STEAM GENERATOR TUBING					ET	ET	IND.
See Section 2.5 of report for details of examination. Eleven tubes were plugged in this steam generator during A1R12.								
B-Q B16.20	1SG-06-1RC01BB TUBING1RC01BB STEAM GENERATOR TUBING					ET	ET	IND.
See Section 2.5 of report for details of examination. Seventeen tubes were plugged in this steam generator during A1R12.								
B-Q B16.20	1SG-07-1RC01BC TUBING1RC01BC STEAM GENERATOR TUBING					ET	ET	NRI
See Section 2.5 of report for details of examination. No tubes were plugged in this generator during A1R12.								
B-G-1 B06.90	1SG-07-SGB-01 1RC01BC					VT-1	VT-1	NRI
B06.100	PRIMARY MANWAY (20 STUDS and NUTS)				100	VOL	UT-70	NRI
B06.110							UT-80L	NRI
B-G-1 B06.90	1SG-07-SGB-02 1RC01BC					VT-1	VT-1	NRI
B06.100	PRIMARY MANWAY (20 STUDS and NUTS)				100	VOL	UT-70	NRI
B06.110							UT-80L	NRI
B-Q B16.20	1SG-08-1RC01BD TUBING1RC01BD STEAM GENERATOR TUBING					ET	ET	NRI
See Section 2.5 of report for details of examination. No tubes were plugged in this generator during A1R12.								
B-G-1 B06.90	1SG-08-SGB-01 1RC01BD					VT-1	VT-1	NRI
B06.100	PRIMARY MANWAY (20 STUDS and NUTS)				100	VOL	UT-70	NRI
B06.110							UT-80L	NRI
B-G-1 B06.90	1SG-08-SGB-02 1RC01BD					VT-1	VT-1	NRI
B06.100	PRIMARY MANWAY (20 STUDS and NUTS)				100	VOL	UT-70	NRI
B06.110							UT-80L	NRI
R-A R01.11	1SI-16-22.01 1RC30AD-1.5" VALVE 1SI8900D - PIPE			NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-16-23 1RC30AD-1.5" PIPE - 3"X1½" REDUCER			NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-17-01 1RC30AB-1.5" PIPE - 3"X1½" REDUCER			NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-17-02 1RC30AB-1.5" VALVE 1SI8900B - PIPE			NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-31-01 1RC30AA-1.5" PIPE - REDUCER			NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-31-02 1RC30AA-1.5" VALVE 1SI8900A - PIPE			NOTE 4		VT-2	VT-2	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Residual Heat Removal System (RH)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
C-C C03.20	1RH-05-21B & 22 PENETRATION (1AB-064) - PIPE	1RH02AA-8"	I2R-10 I2R-15	NOTE 4	100	SUR	PT	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RY)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11	1CV-02-13 VALVE 1CV8377 - PIPE	1RY18A-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-02-14 PIPE - ELBOW	1RY18A-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-02-15 ELBOW - PIPE	1RY18A-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-02-16 PIPE - ELBOW	1RY18A-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-02-17 ELBOW - PIPE	1RY18A-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-02-18 PIPE - ELBOW	1RY18A-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1CV-02-19 ELBOW - PIPE	1RY18A-2"		NOTE 4		VT-2	VT-2	NRI
B-B B02.11	1PZR-01-08E SHELL - UPPER HEAD	1RY01S		NOTE 4	99.1	VOL	UT-45 UT-60	NRI NRI
B-B B02.12	1PZR-01-09D SHELL LONG SEAM	1RY01S		NOTE 4	100	VOL	UT-45 UT-60	NRI NRI
Per Note 2 of Table IWB-2500-1 Category B-B, extent of exam length is twelve inches from the associated circumferential weld.								
B-G-2 B07.20	1PZR-01-B1 MANWAY BOLTING (16 TOTAL)	1RY01S				VT-1	VT-1	NRI
B-E B04.20	1PZR-01-HEATER PENET. 1RY01S PRESSURIZER HEATER PENETRATION					BMV	VT-2 Visual VT-2	IND. NRI NRI
During insulation removal for bare metal visual examination of pressuizer surge nozzle (non-Section XI examination), boric acid was identified (reference IR 480489). Leakage was at Penetration #52. Portion of Penetration #52 containing socket welded coupling was removed and replaced by a welded plug (WO 915754-03 / EC 360630). The removed material was for analysis.								
Final VT-2 was performed during ascending Mode 3 walk down.								
Reference Braidwood LER 2006-001-00 (June 26, 2006).								
B-D B03.110	1PZR-01-N1 PRESSURIZER - SURGE NOZZLE	1RY01S	I2R-08	NOTE 4	20	VOL	UT-45 UT-60	NRI NRI
Two insulation panels providing approximately an 80 degree arc of accessibility were removed to identify source of boric acid on surge nozzle mirror insulation. Accessible portions of nozzle-to-vessel weld were examined per Relief Request I2R-08.								
B-D B03.120	1PZR-01-N1 (NIR) PRESSURIZER - SURGE NOZZLE INNER RADIUS	1RY01S	I2R-08	NOTE 4	40	VOL	UT-50 UT-55	NRI NRI
Two insulation panels providing approximately an 80 degree arc of accessibility were removed to identify source of boric acid on surge nozzle mirror insulation. Accessible portions of nozzle inner radius were examined in accordance with Relief Request I2R-08.								
B-D B03.110	1PZR-01-N4A PRESSURIZER - SAFETY NOZZLE	1RY01S		NOTE 4	100	VOL	UT-45 UT-60	NRI NRI
B-D B03.120	1PZR-01-N4A (NIR) PRESSURIZER - SAFETY NOZZLE INNER RADIUS	1RY01S		NOTE 4	100	IRS	UT-24 UT-65 UT-70	NRI NRI NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RY)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
B-K	B10.10	1PZR-01-PSL-01, -02, -03, 1RY01S AND -04 SEISMIC SUPPORT LUG	I2R-09	NOTE 4		VT-1		
			I2R-15			SUR		NRI
Best effort VT-1 and liquid penetrant examinations performed in accordance with Relief Request I2R-09. Approximately 21.4% coverage achieved on PSL-1, PSL-2, and PSL-3 for liquid penetrant examination. PSL-4 is totally inaccessible (0% coverage).								
R-A	R01.11	1PZR-01-SE-01	1RY11A-14"	NOTE 4		BMV	BMV	NRI
	R01.15	PZR SURGE NOZZLE - SAFE END I-600						
Bare metal visual examination in accordance with MRP 2003-039.								
R-A	R01.15	1PZR-01-SE-02	1RY03AA-6"	NOTE 4		BMV	BMV	NRI
	I-600	PZR SAFETY NOZZLE - SAFE END						
Bare metal visual examination every outage per NRC Bulletin 2004-01 commitment.								
R-A	R01.15	1PZR-01-SE-03	1RY03AB-6"	NOTE 4		BMV	BMV	NRI
	I-600	PZR SAFETY NOZZLE - SAFE END						
Bare metal visual examination every outage per NRC Bulletin 2004-01 commitment.								
R-A	R01.15	1PZR-01-SE-04	1RY03AC-6"	NOTE 4		BMV	BMV	NRI
	I-600	PZR SAFETY NOZZLE - SAFE END						
Bare metal visual examination every outage per NRC Bulletin 2004-01 commitment.								
R-A	R01.11	1PZR-01-SE-05	1RY01B-6"	NOTE 4		BMV	BMV	NRI
	R01.15	PZR SPRAY NOZZLE - SAFE END I-600						
Bare metal visual examination every outage per NRC Bulletin 2004-01 commitment..								
R-A	R01.15	1PZR-01-SE-06	1RY02A-6"	NOTE 4		BMV	BMV	NRI
	I-600	PZR RELIEF NOZZLE - SAFE END						
Bare metal visual examination every outage per NRC Bulletin 2004-01 commitment.								
R-A	R01.11	1RC-04-03	1RY11A-14"	NOTE 4	37.5	VOL-E	UT-45L	NRI
		14" BRANCH NOZZLE - 29" PIPE						
R-A	R01.11	1RC-05-08	1RY11A-14"	NOTE 4	100	VOL-E	UT-45	NRI
		PIPE - 14" NOZZLE BRANCH CONNECTION						
R-A	R01.20	1RC-32-01	1RY03AA-6"	NOTE 4	81.9	VOL-E	UT-45	NRI
		SAFE END - ELBOW						
R-A	R01.20	1RC-32-03	1RY03AA-6"	NOTE 4	50	VOL-E	UT-45 UT-60L	NRI NRI
		PIPE - ELBOW						
R-A	R01.20	1RC-32-04	1RY03AA-6"	NOTE 4	99.3	VOL-E	UT-45	NRI
		ELBOW - PIPE						
B-G-2	B07.50	1RC-32-B4	1RY03BA-6"			VT-1	VT-1	NRI
		FLANGED CONNECTION (12 STUDS)						

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Steam Generator (SG)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
C-A	C01.10	1SG-05-SGC-06 SHELL CONE - STEAM DRUM LOWER SHELL		NOTE 4	100	VOL	UT-45 UT-60	NRI NRI
C-B	C02.21	1SG-05-SGN-03 AUX FW NOZZLE - STEAM DRUM LOWER SHELL		NOTE 4	100 100	SUR VOL	MT UT-45 UT-60	NRI NRI NRI
C-B	C02.21	1SG-05-SGN-04 FW NOZZLE - STEAM DRUM LOWER SHELL		NOTE 4	100 95	SUR VOL	MT UT-45 UT-60	NRI NRI NRI
C-B	C02.22	1SG-05-SGN-04 (NIR) FW NOZZLE - STEAM DRUM LOWER SHELL NIR		NOTE 4	95	IRS	UT-35 UT-40 UT-45 UT-59 UT-60	NRI NRI NRI NRI NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Safety Injection System (SI)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
B-G-2 B07.70	1SI-03-1SI8818A (BLT) 1SI8818A CHECK VALVE (16 BLT)	1SI05DA-6"		NOTE 3		VT-1	VT-1	NRI
Bolting examined in-place and under tension.								
R-A R01.16	1SI-05-23 PIPE - ELBOW	1SI09BB-10"		NOTE 4	100	VOL	UT-45 UT-60	NRI NRI
R-A R01.16	1SI-05-24 ELBOW - PIPE	1SI09BB-10"		NOTE 4	97.8	VOL	UT-45 UT-60	NRI
R-A R01.11	1SI-10-25 PIPE - ELBOW	1SI18FC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-10-26.01 ELBOW - PIPE	1SI18FC-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-18-23 VALVE 1SI8810B - PIPE	1SI08JB-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-18-24 PIPE - ELBOW	1SI08JB-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-18-25 ELBOW - PIPE	1SI08JB-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-18-26 PIPE - ELBOW	1SI08JB-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-01 BRANCH CONNECTION - PIPE	1SI08GA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-06 COUPLING - PIPE	1SI08HA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-07 PIPE - FLANGE	1SI08HA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-08 FLANGE - PIPE	1SI08HA-2"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-14 PIPE - ELBOW	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-15 ELBOW - PIPE	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-16 PIPE - VALVE 1SI8810A	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-17 VALVE 1SI8810A - PIPE	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-18 PIPE - FLANGE	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-20 PIPE - ELBOW	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-22 PIPE - ELBOW	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Safety Injection System (SI)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A R01.11	1SI-19-23 ELBOW - PIPE	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-19-24 PIPE - ELBOW	1SI08JA-1.5"		NOTE 4		VT-2	VT-2	NRI
B-K B10.20	1SI-21-09 PIPE - PENETRATION (1RB-061)	1SI03DA-2"	I2R-15	NOTE 4	100	SUR	PT	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Essential Service Water System (SX)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
C-C C03.20	1SX-11-SW01 STANCHION WELDED TO ELBOW	1SX09BA-10"	I2R-15	NOTE 4	100	SUR	MT	NRI

Section 3.1.1 Detailed Preservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RY)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
B-G-2 B07.50	1RC-32-B4 FLANGED CONNECTION (12 STUDS)	1RY03BA-6"				VT-1	VT-1	NRI
Replaced inlet flange studs on Valve S/N N56964-00-0109 to accommodate use of hydranuts. Preservice VT-1 performed under WO 773388.								
B-G-2 B07.50	1RC-32-B5 FLANGED CONNECTION (12 STUDS)	1RY03BB-6"				VT-1	VT-1	NRI
Replaced inlet flange studs on Valve S/N N56964-00-0054 to accommodate use of hydranuts. Preservice VT-1 performed under WO 793798.								
B-G-2 B07.50	1RC-32-B6 FLANGED CONNECTION (12 STUDS)	1RY03BC-6"				VT-1	VT-1	NRI
Replaced inlet flange studs on Valve S/N N56964-00-0110 to accommodate use of hydranuts. Preservice VT-1 performed under WO 781899.								

Section 3.2 Detailed Inservice Inspection Component Support Listing

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SYSTEM: Containment Spray System (CS)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.20	1CS03017X (1) Strut	1CS02AB-10"		NOTE 8	VT-3	NRI
F-A F01.20	1CS03019V (1) Variable Spring Can	1CS02AB-10"		NOTE 8	VT-3	NRI
As found Spring Can Setting: 1320#. Lower Attachment: Clamp, Rod, and Spring Can: (Direct Upper Attachment: Structural Attachment and Upper Rod Assy. (Remote Examination 8' away).						
F-A F01.20	1CS03021R (1) Strut	1CS02AB-10"		NOTE 8	VT-3	NRI
F-A F01.20	1CS03088X Box	1CS10AA-6"		NOTE 8	VT-3	NRI
F-A F01.20	1CS03089A Anchor, integrally attached to pipe	1CS10AA-6"		NOTE 8	VT-3	NRI
Component painted, no indication of distress.						

Section 3.2 Detailed Inservice Inspection Component Support Listing

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SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.40	1CV01PA 1A CV PUMP, integrally attached to pump	1CV01PA		NOTE 8	VT-3	NRI
F-A F01.10	1CV16012G Box	1CVA7AB-2"		NOTE 8	VT-3	NRI
F-A F01.10	1CV16014X Box	1CVA7AB-2"		NOTE 8	VT-3	NRI
F-A F01.10	1CV22006X (1) Strut	1CV45B-2"		NOTE 8	VT-3	NRI
Note: Insulation removed for exam.						

Section 3.2 Detailed Inservice Inspection Component Support Listing

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SYSTEM: Feedwater System (FW)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.20	1FW04016R (1) Strut	1FW03DC-16"		NOTE 8	VT-3	NRI
F-A F01.20	1FW05018X Box	1FW03DD-16"		NOTE 8	VT-3	NRI

Section 3.2 Detailed Inservice Inspection Component Support Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1CV06014X (1) Strut	1RC36A-3"		NOTE 8	VT-3	NRI
F-A F01.10	1CV09061R Box	1RC14AC-2"		NOTE 8	VT-3	NRI
F-A F01.10	1CV09071G U-Bolt	1RC14AC-2"		NOTE 8	VT-3	NRI
F-A F01.10	1CV12004V (1) Variable Spring Can As Found Setting: 460 lbs.	1RC16AA-2"		NOTE 8	VT-3	NRI
F-A F01.10	1CV13004R Box	1RC16AC-2"		NOTE 8	VT-3	NRI
F-A F01.40	1RC01BA S.G A	1RC01BA		NOTE 8	VT-3 VT-3	NRI NRI
Insulation loosened / pulled back from upper lateral restraint in order to perform examination.						
F-A F01.40	1RC01R REACTOR	1RC01R		NOTE 8	VT-3	NRI
Perform in conjunction with MRP visual inspection of A and C cold legs and B and D hot legs.						
F-A F01.10	1RC02001V (1) Variable Spring Can	1RC21AB-8"		NOTE 8	VT-3	NRI

Section 3.2 Detailed Inservice Inspection Component Support Listing

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SYSTEM: Residual Heat Removal System (RH)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.20	1PC-068A Anchor, integrally attached to pipe	1RH01BA-12"		NOTE 8	VT-3	NRI
	Outside Containment Anchor, integrally attached to pipe				VT-3	NRI
Exam performed on 04/24/2006 was on the portion of the component located inside containment. Exam performed on 02/16/2006 was on portion of component located outside the containment.						
F-A F01.20	1RH04014C (2) Constant Spring Cans, IWA to pipe	1RH03AB-8"		NOTE 8	VT-3	NRI
Spring can settings in tolerance. Size 17 Constant Supports (2 "Cans" Trapeze Type), Load 955#, T.T. = 3", A.T. 11/16" up. Remote examination performed (25' away). Travel Setting acceptable.						
F-A F01.20	1RH04017G Box	1RH03AB-8"		NOTE 8	VT-3	NRI
Remote examination performed (20' away).						
F-A F01.20	1SI18085X (1) Strut	1RH03AA-8"		NOTE 8	VT-3	NRI

Section 3.2 Detailed Inservice Inspection Component Support Listing

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SYSTEM: Reactor Coolant System (RY)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.40	1RY01S All PZR Supports	1RY01S		NOTE 8	VT-3	NRI

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SYSTEM: Safety Injection System (SI)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1RB-061A Anchor, integrally attached to pipe	1SI03DA-2"		NOTE 8	VT-3	NRI
F-A F01.10	1RH02020R (2) Struts	1SI04D-8"		NOTE 8	VT-3	NRI
F-A F01.10	1RH02021R Box	1SI04D-8"		NOTE 8	VT-3	NRI
F-A F01.10	1RH02072X (1) Strut	1SI04B-12"		NOTE 8	VT-3	NRI
F-A F01.10	1RH02100X Box	1SI04B-12"		NOTE 8	VT-3	NRI
F-A F01.10	1SI01022X (1) Strut	1SI05DA-6"		NOTE 8	VT-3	NRI
F-A F01.10	1SI01073X (1) Strut	1SI05DA-6"		NOTE 8	VT-3	NRI
F-A F01.20	1SI03005C (1) Constant Spring Can Actual Setting = 5 1/2	1SI05CA-8"		NOTE 8	VT-3	NRI
F-A F01.10	1SI04015R (1) Strut	1SI05DB-6"		NOTE 8	VT-3	NRI
F-A F01.20	1SI06098X (1) Strut, integrally attached to pipe	1SI01B-24"		NOTE 8	VT-3	NRI
F-A F01.10	1SI09014R (2) Struts	1SI05DC-6"		NOTE 8	VT-3	NRI
F-A F01.10	1SI09036X Box	1SI05DC-6"		NOTE 8	VT-3	NRI
F-A F01.10	1SI13104G U-Bolt	1SI03DA-2"		NOTE 8	VT-3	NRI
F-A F01.20	1SI15002G Box and Strut	1SI02BA-6"		NOTE 8	VT-3	NRI
F-A F01.20	1SI15006R Box	1SI13BA-6"		NOTE 8	VT-3	NRI
F-A F01.20	1SI15008R (1) Strut	1SI13C-6"		NOTE 8	VT-3	NRI
F-A F01.20	1SI15010X (1) Strut	1SI13BA-6"		NOTE 8	VT-3	NRI
F-A F01.20	1SI15015X Box	1SI02BA-6"		NOTE 8	VT-3	NRI
F-A F01.20	1SI18024X Box	1SI02A-8"		NOTE 8	VT-3	NRI
F-A F01.20	1SI18050X (1) Strut	1SI02BA-6"		NOTE 8	VT-3	NRI

Section 3.2 Detailed Inservice Inspection Component Support Listing

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SYSTEM: Safety Injection System (SI)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.20	1SI18060R Box	1SI02BA-6"		NOTE 8	VT-3	NRI
F-A F01.10	1SI21014G Box	1SI08FA-3"		NOTE 8	VT-3	NRI
F-A F01.10	1SI21021A Anchor, integrally attached to pipe	1SI08FA-3"		NOTE 8	VT-3	NRI
F-A F01.10	1SI21022X (1) Strut	1SI08E-3"		NOTE 8	VT-3	NRI
F-A F01.10	1SI23001G Box	1SI08FA-3"		NOTE 8	VT-3	NRI
Box Support.						

Section 3.2 Detailed Inservice Inspection Component Support Listing

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SYSTEM: Essential Service Water System (SX)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.20	1SX08101X (1) Strut, integrally attached to pipe	1SX09BA-10"		NOTE 8	VT-3	NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1CV16009S Snubber	1CVA7AB-2"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Main Steam System (MS)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.20	1MS01079S Snubber, integrally attached to pipe	1MS07AA-28"	I2R-14		VT-3	NRI
F-A F01.20	1MS01088S Snubber, integrally attached to pipe	1MS07AD-28"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.20	1MS01092AS Snubber, integrally attached to pipe	1MS07AB-28"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.20	1MS01092BS Snubber, integrally attached to pipe	1MS07AB-28"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.20	1MS01097S Snubber, integrally attached to pipe	1MS07AB-28"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.20	1MS01101AS Snubber, integrally attached to pipe	1MS07AC-28"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
Serial Number: 1625						
F-A F01.20	1MS01101BS Snubber, integrally attached to pipe	1MS07AC-28"	I2R-14		VT-3 Functional Functional VT-3	NRI IND. NRI NRI
Snubber Serial Number 1534 failed to meet functional test acceptance criteria. Replaced by Serial Number 20006 under WO 899716-01					Functional	
Snubber, integrally attached to pipe					VT-3	NRI
Snubber functional and post-installation VT-3 Completed.						
F-A F01.20	1MS01106S Snubber, integrally attached to pipe	1MS07AC-28"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1CV15039AS Snubber	1RC14AB-2"	I2R-14		Functional VT-3	NRI NRI
	Snubber functional and post-installation VT-3 completed.					
	Snubber				VT-3 Functional	IND. IND.
					Functional VT-3	NRI NRI
Snubber Serial Number 3128 failed to meet functional test acceptance criteria. Replaced by Serial Number 12538 under WO 914213-01. Skewed pipe attachment component identified during visual examination (post test VT-3).						
F-A F01.10	1CV15039BS Snubber	1RC14AB-2"	I2R-14		Functional VT-3	NRI NRI
	Snubber functional and post-installation VT-3 completed.					
	Snubber				VT-3 Functional	IND. IND.
					Functional VT-3	NRI NRI
Snubber Serial Number 8052 failed to meet functional test acceptance criteria. Replaced by Serial Number 14610 under WO 914213-01. Skewed pipe attachment component identified during visual examination (post test VT-3).						
F-A F01.10	1CV25002S Snubber	1RC14AD-2"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.10	1RC01006S Snubber	1RC21AA-8"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.10	1RC01007S Snubber	1RC21AA-8"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.40	1RC01BA-A Snubber	S.G A	I2R-14		VT-3	NRI
F-A F01.40	1RC01BA-B Snubber	S.G A	I2R-14		VT-3	NRI
F-A F01.40	1RC01BB-A Snubber	S.G B	I2R-14		VT-3 VT-3	NRI NRI
Serial Number 23. VT-3 performed for WO 98108541 was post maintenance VT-3 after replacement of 1RC01BB-B snubber. Both snubbers are supplied from a common reservoir.						
F-A F01.40	1RC01BB-B Snubber	S.G B	I2R-14		Functional VT-3	NRI NRI
	Snubber functional and post-installation VT-3 completed.					
	Snubber				VT-3 Functional VT-3	IND. NRI
Snubber (Serial Number 14) was identified as leaking fluid from the piston seal at power during the operating cycle prior to A1R12. Leakage quantified as 25 dpm on 04/20/2006. Snubber was replaced by Serial Number 06 under WO 98108541.						

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.40	1RC01BC-A Snubber	S.G C	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
Serial Number 12. Snubber functional test and post maintenance VT-3 examination						
F-A F01.40	1RC01BC-B Snubber	S.G C	I2R-14		VT-3	NRI
F-A F01.40	1RC01BD-A Snubber	S.G D	I2R-14		VT-3	NRI
F-A F01.40	1RC01BD-B Snubber	S.G D	I2R-14		VT-3	NRI
F-A F01.10	1RC02006AS Snubber	1RC21AB-8"	I2R-14		VT-3 Functional Functional VT-3	NRI IND. NRI NRI
Snubber (Serial Number 8666) failed to meet functional test acceptance criteria. Replaced by Serial Number 2504 under WO 914208-01.					Functional	
Snubber					VT-3	NRI
Snubber functional and post-installation VT-3 completed.						
F-A F01.10	1RC02006BS Snubber	1RC21AB-8"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.10	1RC02007S Snubber	1RC21AB-8"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.10	1RC16114S Snubber	1RC22AA-1.5"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.10	1RC16119S Snubber	1RC22AA-1.5"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.10	1RC17052S Snubber	1RC22AB-1.5"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
F-A F01.10	1RC18034AS Snubber	1RC22AC-1.5"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
Serial No. 13044						
F-A F01.10	1RC18034BS Snubber	1RC22AC-1.5"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI
S.N. 13082						

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1RY06057S Snubber	1RC26A-2"	I2R-14		Functional VT-3	NRI NRI
	Snubber functional and post-installation VT-3 completed.					
	Snubber				VT-3 Functional VT-3	NRI
	Snubber (Serial Number 329) was replaced with Serial Number 13518 under WO 915045-01.					
F-A F01.10	1RY06091S Snubber	1RC26A-2"	I2R-14		Functional VT-3	NRI NRI
	Snubber (Serial Number 8609) performance was identified as trending downward during A1R11 and was replaced with functionally tested spare snubber (Serial Number 9857) under WO 744327-01.					
F-A F01.10	1RY06153S Snubber	1RC24AB-4"	I2R-14		VT-3 Functional VT-3	NRI NRI NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Residual Heat Removal System (RH)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1RH02003S Snubber	1RH01AB-12"	I2R-14		VT-3 Functional	NRI NRI
F-A F01.10	1RH02013S Snubber	1RH01AB-12"	I2R-14		VT-3 Functional	NRI NRI
F-A F01.10	1RH02059S Snubber	1RH01AA-12"	I2R-14		VT-3 Functional	NRI NRI
F-A F01.20	1RH08015S Snubber	1RH02AB-8"	I2R-14		VT-3 Functional	NRI NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Reactor Coolant System (RY)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1RY06012S Snubber	1RY01AB-4"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY06022S Snubber	1RY01B-6"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY06029S Snubber	1RY01B-6"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY06033S Snubber	1RY01B-6"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY06034S Snubber	1RY01B-6"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY06047S Snubber	1RY18A-2"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY06110S Snubber	1RY01B-6"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY06126S Snubber	1RY01AB-4"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY09005S Snubber	1RY02B-3"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RY09077S Snubber	1RY02B-3"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Safety Injection System (SI)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1RH02019S Snubber	1SI04D-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.20	1RH02027S Snubber	1SI04C-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RH02066S Snubber	1SIA4B-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RH02067S Snubber	1SI04D-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RH02078S Snubber	1SIA4B-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1RH02083S Snubber	1SIA4B-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.20	1RH02206S Snubber	1SIA4A-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A NA	1SI01003S Snubber	1SI09BA-10"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1SI01021S Snubber	1SI05DA-6"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.20	1SI03003S Snubber	1SI05CA-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.20	1SI03006S Snubber	1SI05CA-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.20	1SI03007S Snubber	1SI05CA-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.20	1SI03009S Snubber	1SI05CA-8"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI
F-A F01.10	1SI03018S Snubber	1SI05DD-6"	I2R-14		VT-3 Functional	NRI NRI
					VT-3	NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Safety Injection System (SI)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A	F01.10	1SI03024S Snubber	1SI09BD-10"	I2R-14	VT-3 Functional	NRI NRI
F-A	F01.10	1SI04003S Snubber	1SI09BB-10"	I2R-14	VT-3 Functional	NRI NRI
F-A	F01.20	1SI09004S Snubber	1SI05CB-8"	I2R-14	VT-3 Functional	NRI NRI
F-A	F01.20	1SI09009S Snubber	1SI05CB-8"	I2R-14	VT-3 Functional	NRI NRI
F-A	F01.10	1SI09020S Snubber	1SI09BC-10"	I2R-14	VT-3 Functional	NRI NRI
F-A	F01.20	1SI09043S Snubber	1SI05CB-8"	I2R-14	VT-3 Functional	NRI NRI
F-A	F01.20	1SI18049S Snubber	1SI02BA-6"	I2R-14	VT-3 Functional	NRI NRI

Section 3.3.1 Snubber Preservice Inspection Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1CV15039AS Snubber	1RC14AB-2"	I2R-14		Functional VT-3	NRI NRI
Snubber functional and post-installation VT-3 completed.						
F-A F01.10	1CV15039BS Snubber	1RC14AB-2"	I2R-14		Functional VT-3	NRI NRI
Snubber functional and post-installation VT-3 completed.						
F-A F01.40	1RC01BB-B Snubber	S.G B	I2R-14		Functional VT-3	NRI NRI
Snubber functional and post-installation VT-3 completed.						
F-A F01.10	1RC02006AS Snubber	1RC21AB-8"	I2R-14		Functional VT-3	NRI NRI
Snubber functional and post-installation VT-3 completed.						
F-A F01.10	1RY06057S Snubber	1RC26A-2"	I2R-14		Functional VT-3	NRI NRI
Snubber functional and post-installation VT-3 completed.						
F-A F01.10	1RY06091S Snubber	1RC26A-2"	I2R-14		Functional VT-3	NRI NRI
Snubber (Serial Number 8609) performance was identified as trending downward during A1R11 and was replaced with functionally tested spare snubber (Serial Number 9857) under WO 744327-01.						

Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing

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SYSTEM: Containment Spray System (CS)

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					
C-H	C07.10 A01CS-000003-M04-01A	I2R-05	NOTE13	VT-2	NRI
	C07.30 40 Month Period ASME Section XI pressure Test.	I2R-13			
	C07.50				
	C07.70				
Second period examination.					
A number of minor packing leaks were identified (Information Only).					
C-H	C07.10 A01CS-000003-M04-01B	I2R-05		VT-2	IND.
	C07.30 40 Month Period ASME Section XI pressure Test.	I2R-13			
	C07.50				
	C07.70				
Second period examination.					
Nonactive boric acid leak at bolted connection on Line 1CS01AB-16" (reference IR 284476 and 291483). Gasket replacement performed under WO 697822.					
C-H	C07.10 A01CS-000003-M04-01C	I2R-05		VT-2	NRI
	C07.30 40 Month Period ASME Section XI Pressure Test. The Test Pressure shall be those pressures developed when the Spray Additive Tank is pressurized with the nitrogen blanket. Use SNOOP or Ultraprobe to inspect nitrogen filled piping, valves and upper portion of Spray Additive Tank containing nitrogen blanket.	I2R-13			
	C07.70				
Second period examination.					

Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing

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SYSTEM: Fuel Pool Cooling System (FC)

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					
C-H	C07.30 A01FC-000001-M04-01C	I2R-05	NOTE13	VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test.	I2R-12			
		I2R-13			
Second period examination.					
C-H	C07.30 A01FC-000001-M04-01D	I2R-05	NOTE13	VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test.	I2R-12			
		I2R-13			
Second period examination.					

Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing

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SYSTEM: Process Sampling System (PS)

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					

C-H	C07.30	A01PS-000009-M04-01E	I2R-05	NOTE13	VT-2	NRI
	C07.70	40 Month Period ASME Section XI Pressure Test.	I2R-13		VT-2	NRI

Relief Request I2R-47 submitted to address inaccessible piping.

Second period examination.

Initial review of May 2005 walk down revealed all sections of system were not examined by VT-2 method (Reference IR 338480). A subsequent risk evaluation was performed.

Access to 25' of piping could not be attained during second walk down in October 2005 (IR 387085), Relief Request I2R-47 submitted on 4/7/2006.

Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing

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SYSTEM: Safety Injection System (SI)

Section XI		ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Cat.	Item					
Inspection Comments						
C-H	C07.40	A01SI-000005-M04-02H	I2R-05	NOTE13	VT-2	NRI
	C07.80	10 Year Interval ASME Section XI Pressure Test.	I2R-12 I2R-13	NOTE17		

Portion completed in A1R12, the balance of the test block will be performed during A1R13.

Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing

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SYSTEM: Plant Systems Pressurized During Mode 3 (ZZ)

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					
B-P	B15.10 A01ZZ-000005-M04-01A	I2R-05	NOTE13	VT-2	IO
	B15.20 Periodic (each refueling outage) ASME Section XI Pressure Test &	I2R-12	NOTE14		
	B15.30 Generic Letter 88-05.	I2R-13	NOTE17		
	B15.50	I2R-30			
	B15.60/70	I2R-31			
Class 1 system leakage test.					
No Recordable Indications.					
Information Only (IO): Leakage past 1RC014 series head vent valve (reference IR 485050)					
B-P	B15.11 A01ZZ-000005-M04-02A	I2R-05	NOTE13	VT-2	NRI
	B15.21 10 Year Interval ASME Section XI Pressure Test. Freeze seal	I2R-12	NOTE14		
	B15.31 required for Line 1CV45B.	I2R-13	NOTE17		
	B15.51	I2R-30			
	B15.61/71	I2R-31			
Portion completed in A1R12, the balance of the test block will be performed during A1R13.					
C-H	C07.20 A01ZZ-000005-M04-02B	I2R-05	NOTE13	VT-2	NRI
	C07.40 10 Year Interval ASME Section XI Pressure Test. All Code Class 2	I2R-12	NOTE17		
	C07.80 Components inside Containment. VT-2 Visual Inspection of	I2R-13			
	components outside of Missile Barrier may be performed during Mode				
	1 if conditions permit.				
Portion completed in A1R12, the balance of the test block will be performed during A1R13.					
C-H	C07.10 A01ZZ-000078-M04-03A	I2R-05	NOTE13	VT-2	NRI
	C07.30 40 Month Period ASME Section XI Pressure Test. All Code Class 2	I2R-12			
	C07.70 components inside containment. VT-2 Visual Inspection of	I2R-13			
	components outside Missile Barrier may be performed during Mode 1				
	if conditions permit.				
Class 2 and 3 systems examined during ascending Mode 3 walk down.					

Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing

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SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					
C-H	C07.30 1A-CV-10 F-2-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13			
C-H	C07.10 1CV04AB (C-H)	I2R-12		VT-2	NRI
	C07.20 1CV04AB HX (28 STUDS)	I2R-13			
C-H	C07.30 1CV-10 F-1-1 (C-H)	I2R-12		VT-2	IND.
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13		VT-1	NRI
Evidence of leakage (dry boric acid accumulation, < 1 Teaspoon) identified at one stud. Component cleaned, VT-1 Examination performed, with exception of minor surface rust no indication of degradation identified. No evidence of leakage identified during post cleaning examination. Reference Issue Report Number 496436 for identification of indication in the Corrective Action Program.					
B-P	B15.50 PG-2546C-014 F-2-2 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-018 F-1-5 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-020 F-1-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
Evidence Of Dry Boric Acid at the packing on instrument valves 1CV090C and 1CV091C which attaches to the flanges within this Borated Bolted Connection. Not within the scope of borated bolted connections. However components were cleaned and inspected with no identified degradation. Reference Issue Report Numbers 495158 and 495163 for identification of valve packing leakage in the Corrective Action Program.					
C-H	C07.30 PG-2546C-041 F-1-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-063 F-1-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
Evidence Of Dry Boric Acid at the packing on instrument valves 1CV090D and 1CV091D which attaches to the flanges within this Borated Bolted Connection. Not within the scope of borated bolted connections. However components were cleaned and inspected with no identified degradation. Reference Issue Report Numbers 495165 and 495168 for identification of valve packing leakage in the Corrective Action Program.					
C-H	C07.30 PG-2546C-068 F-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-076 F-1-3 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-083 FL-1-2 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-089 FL-1-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13			
Evidence Of Dry Boric Acid at the packing on instrument valves 1CV049D and 1CV050D which attaches to the flanges within this Borated Bolted Connection. Not within the scope of borated bolted connections. However components were cleaned and inspected with no identified degradation. Reference Issue Report Numbers 495174 and 495185 for identification of valve packing leakage in the Corrective Action Program.					
C-H	C07.30 PG-2546C-090 F-1-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13			
B-P	B15.50 PG-2546C-091 F-2-3 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-093 F-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			

Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing

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SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					
B-P	B15.50 PG-2546C-101 F-2-3 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-111 F-1-2 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13			
Evidence Of Dry Boric Acid at the packing on instrument valves 1CV049A and 1CV050A which attaches to the flanges within this Borated Bolted Connection. Not within the scope of borated bolted connections. However components were cleaned and inspected with no identified degradation. Reference Issue Report Numbers 495191 and 495195 for identification of valve packing leakage in the Corrective Action Program.					

Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing

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SYSTEM: Pressurizer (PZR)

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments					
B-P	B15.20 1PZR-01-B1 (B-P)	I2R-12		VT-2	NRI
	B15.21 MANWAY BOLTING (16 TOTAL)	I2R-13			

Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat.	Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
B-P	B15.50	1RC-19-B3 (B-P)	I2R-12		VT-2	NRI
	B15.51	FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.50	1RC-20-B1 (B-P)	I2R-12		VT-2	NRI
	B15.51	FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.50	1RC-23-B1 (B-P)	I2R-12		VT-2	NRI
	B15.51	FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.50	1RC-27-B1 (B-P)	I2R-12		VT-2	NRI
	B15.51	FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.10	1RV-03-STUDS (01 TO 54, B-P)	I2R-13		VT-2	NRI
	B15.11	CLOSURE HEAD STUDS (54 TOTAL)	I2R-31			
B-P	B15.30	1SG-05-SGB-01 (B-P)	I2R-13		VT-2	NRI
	B15.31	PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30	1SG-05-SGB-02 (B-P)	I2R-13		VT-2	NRI
	B15.31	PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30	1SG-06-SGB-01 (B-P)	I2R-13		VT-2	NRI
	B15.31	PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30	1SG-06-SGB-02 (B-P)	I2R-13		VT-2	NRI
	B15.31	PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30	1SG-07-SGB-01 (B-P)	I2R-13		VT-2	NRI
	B15.31	PRIMARY MANWAY (20 STUDS)	I2R-31			
Section XI VT-1 scheduled for A1R12. (ISI)						
B-P	B15.30	1SG-07-SGB-02 (B-P)	I2R-13		VT-2	NRI
	B15.31	PRIMARY MANWAY (20 STUDS)	I2R-31			
Section XI VT-1 scheduled for A1R12. (ISI)						
B-P	B15.30	1SG-08-SGB-01 (B-P)	I2R-13		VT-2	NRI
	B15.31	PRIMARY MANWAY (20 STUDS)	I2R-31			
Section XI VT-1 scheduled for A1R12. (ISI)						
B-P	B15.30	1SG-08-SGB-02 (B-P)	I2R-13		VT-2	NRI
	B15.31	PRIMARY MANWAY (20 STUDS)	I2R-31			
Section XI VT-1 scheduled for A1R12. (ISI)						

Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing

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SYSTEM: Residual Heat Removal System (RH)

Section XI Cat.	Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
C-H	C07.30	1RH01MB (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (12 STUDS)	I2R-13			
C-H	C07.30	1RH-02 F-1-1 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (20 STUDS)	I2R-13			
C-H	C07.30	1RH-02 F-2-1 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (20 STUDS)	I2R-13			
C-H	C07.30	1RH-02 F-4 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (8 STUDS)	I2R-13			
C-H	C07.30	1RH-03 F-2 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (24 STUDS)	I2R-13			
C-H	C07.30	1RH-05 F-1 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (24 STUDS)	I2R-13			
C-H	C07.30	1RH-05 F-2 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (24 STUDS)	I2R-13			
C-H	C07.30	1RH-05 F-3-1 (C-H)	I2R-12		VT-2	IND.
	C07.40	FLANGED CONNECTION (12 STUDS)	I2R-13		VT-1	NRI
Evidence of leakage (dry boric acid accumulation, (Approx. 1 Cup) identified within the mechanical connection. Component cleaned, VT-1 Examination performed, with exception of minor surface rust no indication of degradation identified. No evidence of leakage identified during post cleaning examination. Reference IR Number 477836 for identification of indication in the Corrective Action Program. Component was repaired (Bolting Retightened / Retorqued) on 04/13/2006 under WO 911750. No evidence of leakage or degradation identified during post repair exam.						
C-H	C07.30	1RH-06 F-1-1 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (12 STUDS)	I2R-13			
C-H	C07.30	1RH-07 F-2-1 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (20 STUDS)	I2R-13			
C-H	C07.30	1RH-07 F-3-1 (C-H)	I2R-12		VT-2	NRI
	C07.40	FLANGED CONNECTION (20 STUDS)	I2R-13			
C-H	C07.70	1RH606 (C-H)	I2R-12		VT-2	NRI
	C07.80	1RH606 VLV (4 STUDS)	I2R-13			