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U. S. Nuclear Regulatory Commission
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Braidwood Station, Unit 2
Facility Operating License No. NPF-77
NRC Docket No. STN 50-457

Subject: Braidwood Station, Unit 2 Inservice Inspection Summary Report

Enclosed please find the post-outage summary report (i.e., 90 day report) for inservice inspection examinations conducted during Braidwood Station, Unit 2 Refueling Outage 15 (A2R15). This report is submitted in accordance with the requirements of the American Society of Mechanical Engineers 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. Chris VanDenburgh, Regulatory Assurance Manager, at (815) 417-2800.

Respectfully,



Daniel J. Enright
Site Vice President
Braidwood Station

Enclosure: Braidwood Station ISI Outage Report for A2R15

cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector – Braidwood Station
Illinois Emergency Management Agency – Division of Nuclear Safety

A047
NRC

BRAIDWOOD STATION

UNIT 2 INSERVICE INSPECTION SUMMARY REPORT FOR:

**Interval 3, Period 1, Outage 2
A2R15 Outage**

STATION ADDRESS:

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

UNIT 2 COMMERCIAL SERVICE DATE:

October 17, 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

Third Interval Inservice Inspections (ISI) and Preservice Inspections (PSI) of ASME Class 1, 2, and 3 components were conducted at Braidwood Station Unit 2 from November 2, 2009 through July 28, 2011. The majority of these inspections were performed during the Braidwood Station Unit 2 fifteenth refueling outage (A2R15). This report also contains the results of the remaining pressure tests that were not completed prior to submittal of the previous A2R14 outage report.

For the Third Interval, 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, 2001 Edition through 2003 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, 2001 Edition through the 2003 Addenda, pursuant to the requirements of 10CFR50.55a.

In addition to the ASME Section XI requirements, certain NRC or industry augmented inspections were completed during A2R15. The Braidwood Unit 2 augmented examinations included:

- a) Examination of the Class 1 pressure boundary for leakage at nominal operating pressure, in accordance with Generic Letter 88-05.
- b) Examination of the 2B reactor coolant pump motor flywheel in accordance with Regulatory Guide 1.14 and Technical Specification 5.5.7.
- c) Examination of welds in accordance with Materials Reliability Project MRP-139, "Primary System Piping Butt Weld Inspection and Evaluation Guideline" and MRP-192, "Assessment of RHR Mixing Tee Thermal Fatigue in PWR Plants".
- d) Reinspection of all six pressurizer nozzle-to-safe end full structural overlays in accordance with ASME Section XI Nonmandatory Appendix Q and Second Interval Relief Request I2R-48.

The only documented indication requiring further evaluation was observed during the augmented inspections for MRP-192 in a tee-to-pipe circumferential weld. This indication was attributed to original construction and was not characterized as service-induced (i.e., thermal fatigue craze cracking). The indication was accepted for continued service in accordance with IWB-3600 evaluation methods.

1.2 Identification of Examination Requirements

The Third Interval ISI Program contains the applicable 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 Non-Destructive Examination (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, and VT-3) 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 results. Personnel were certified to the requirements of the American Society for Non-destructive Testing SNT-TC-1A, 1984 Edition and ANSI/ASNT CP-189, 1995 Revision. The NDE procedures were developed and certified in conformance with ASME Section V and XI, 2001 Edition through 2003 Addenda, or approved alternatives (Performance Demonstration Initiative Program) as applicable. In addition, ultrasonic examination personnel were qualified in accordance with ANSI/ASME CP-189, 1995 Revision.

Certified personnel performed and evaluated visual examinations (i.e., 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 ANSI/ASNT CP-189, 1995 Revision.

Certified personnel performed and evaluated examinations (UT, VT-1, and VT-3) of primary containment. Personnel were certified in

accordance with the requirements of the ANSI/ASNT CP-189, 1995 Revision, and/or ASME Section XI 2001 through 2003 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 J. Norville. 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 Class 1 and 2, Risk Informed ISI, and augmented examinations performed during the Braidwood Station Unit 2 A2R15 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)	2
Feedwater (FW)	11
Reactor Coolant (RC)	8
Residual Heat Removal (RH)	11
Pressurizer (RY)	14
Safety Injection (SI)	1
TOTALS	47

- * Non-Section XI Augmented, 10 CFR 50.55a, and Risk Informed ISI socket weld VT-2 examinations are not included in these counts but are contained in Section 3.1.1 of report.

2.2 Inservice Component Support Summary

SYSTEM EXAMINED	Number of Component Supports
Auxiliary Feedwater (AF)	4
Chemical & Volume Control (CV)	2
Feedwater (FW)	4
Main Steam (MS)	4
Reactor Coolant (RC)	2
Residual Heat Removal (RH)	7
Reactor Coolant/Pressurizer (RY)	7
Safety Injection (SI)	16
Essential Service Water (SX)	14
TOTALS	60

2.3 Inservice Snubber Summary

SYSTEM EXAMINED	Number of Snubbers Examined by VT-3	Number of Snubbers Functionally Tested
Containment Spray (CS)	2	0
Chemical & Volume Control (CV)	12	10
Feedwater (FW)	9	6
Main Steam (MS)	7	2
Reactor Coolant (RC)	16	4
Residual Heat Removal (RH)	2	1
Reactor Coolant/Pressurizer (RY)	10	5
Steam Generator Blowdown (SD)	3	3
Safety Injection (SI)	7	4
Essential Service Water (SX)	1	1
TOTALS	69	36

2.4 Inservice Pressure Test Summary

2.4.1 Pressure Test Block Inspection Summary

The components contained in Table 2.4.1-1 are the Class 1 and Class 2 pressure test blocks that were examined for Section XI Inservice Inspection since the A2R14 report was submitted.

Table 2.4.1-1
Class 1 and 2 System Pressure Tests

System	Class	Number of Test Blocks Examined
Chemical Volume and Control (CV)	2	3
Fuel Pool Cooling and Clean Up (FC)	2	2
Instrument Air (IA)	2	1
Residual Heat Removal	2	4
Safety Injection (SI)	2	4
Essential Service Water (SX)	2	2
Plant Systems Pressurized During Mode 3 (ZZ)	1 & 2	3
TOTALS		19

2.4.2 Borated Bolting Inservice Inspection Summary

The components contained in Table 2.4.2-1 are those insulated borated bolted connections that were examined for Section XI Inservice Inspection credit. Inspections on these connections are performed per the ISI Program Plan.

**Table 2.4.2-1
Borated Bolted Connections**

SYSTEM EXAMINED	Number of Connections Examined by VT-2	Number of Connections Examined by VT-3
Chemical & Volume Control (CV)	8	0
Reactor Coolant/Pressurizer (RC/RP)	14	0
Residual Heat Removal (RH)	1	0
TOTALS	23	0

2.5 Steam Generator Eddy Current Testing Summary

2.5.1 Steam Generator Eddy Current Testing Summary

In accordance with Braidwood Station Technical Specification (TS) 3.4.19, "Steam Generator (SG) Tube Integrity," TS 5.5.9, "Steam Generator (SG) Program," and American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code Section XI 2001 Edition through 2003 Addenda, IWB 2500-1, Examination Category B-Q, Item B16.20, SG eddy current examinations were performed during the Braidwood Station, Unit 2, fifteenth refueling outage (A2R15). In addition, the inspections were performed consistent with the Electric Power Research Institute (EPRI) "PWR Steam Generator Examination Guidelines," Revision 7, 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 examination of all SGs, excluding the row 1 and row 2 U-Bend region, which were inspected as part of the 25% Plus-Point program.
- 100% hot leg top of tubesheet (+4"/-18") +Point™ of in-service tubes identified as having increased residual stress

- 100% +Point™ inspection of the hot leg dents/dings > 3.0 volts and wear indications of in-service tubes identified as having increased residual stress
- 100% +Point™ inspection of the “corner” preheater expansions at TSP 02-C in the 2B, 2C, and 2D SGs
- +Point™ inspection of in-service tubes containing foreign object wear and re-sized with a qualified eddy current technique
- +Point™ inspection of in-service tubes around all tubes that were previously plugged due to foreign objects
- 25% hot leg top of tubesheet (+4”/-18”) +Point™ in all SGs
- 25% hot leg bulges ≥ 18 Volts and over expansions ≥ 1.5 mils within top 18 inches of the hot leg tubesheet, +Point™ in all SGs
- 25% row 1 and 2 U-bends +Point™ in all SGs. In addition to the 25% inspection, an additional thirty nine (39) tubes identified with manufacturing artifacts during the A2R14 Independent Qualified Data Analyst (IQDA) review were inspected
- 25% +Point™ inspection on the base population of hot leg dents/dings >3.0 volts and 100% of hot leg dent / ding >3 volts identified during the A2R15 inspection and does not exist in history
- 25% pre-heater baffle expansion +Point™ in all SGs
- 100% visual inspection of the previously installed and newly installed tube plugs in all SGs.

The modes of tube degradation found during the A2R15 SG inspection were anti-vibration bar (AVB) wear, pre-heater tube support plate wear, axial outside diameter stress corrosion cracking and secondary side foreign object wear.

As a result of the eddy current inspection of the SGs, a total of thirty (30) tubes were removed from service by mechanical tube plugging.

Of the thirty (30) tubes removed from service, the following number of tubes were plugged due to an imperfection depth greater than or equal to the 40% through wall (TW) Technical Specification 5.5.9.c.1 acceptance criteria

- Five (5) tubes were plugged due to AVB wear
- One (1) tube was plugged due to having wear from secondary side foreign objects
- One (1) tube was plugged due to having pre-heater wear

Of the thirty (30) tubes removed from service, One (1) tube was plugged upon detection of axial outside diameter stress corrosion cracking (ODSCC).

Of the thirty (30) tubes removed from service, the following number of tubes were preventively plugged due to wear less than or equal to the 40% through wall (TW) Technical Specification 5.5.9.c.1 acceptance criteria

- One (1) tube due to pre-heater wear
- Seventeen (17) tubes due to having wear from secondary side foreign objects

Of the thirty (30) tubes removed from service, four (4) tubes were preventatively removed from service due to the presence of potential secondary side foreign objects, but no wear was present.

There were no scanning limitations during the eddy current examinations.

Table 2.5-1 provides the total number of tubes plugged during A2R15 by degradation mode. Table 2.5-2 provides the tube plugging levels for each SG to date.

**Table 2.5-1
Tubes Plugged During A2R15**

	SG 2A	SG 2B	SG 2C	SG 2D	Total
Foreign Object Wear	5	6	0	7	18
Pre-Heater Wear	0	0	1	1	2
Axial ODSCC	0	0	0	1	1
Anti-Vibration Bar Wear	3	1	1	0	5
Preventative	4	0	0	0	4
A2R15 Plugging Totals	12	7	2	9	30

**Table 2.5-2
Equivalent Tube Plugging Level**

	SG 2A	SG 2B	SG 2C	SG 2D	Total
Tubes Previously Plugged	83	54	66	26	229
Tubes Plugged in A2R15	12	7	2	9	30
Total Tubes Plugged	95	61	68	35	259
Total Tubes Plugged (%)*	2.08%	1.34%	1.49%	0.77%	1.42%

* Each SG contains 4570 tubes

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, "Steam Generator (SG) Tube Inspection Report."

3.0 COMPONENT EXAMINATION RESULTS

3.1 Third Interval Inservice and Preservice Inspection Detailed Result Tables

3.1.1 Detailed Third Interval Inservice Weld/Component Table(s):

The table for this section (Pages 3-5 to 3-19) lists the examinations performed for Section XI Inservice and Augmented Inspection requirements for Class 1 and 2 welds and components for the Third ISI Interval. 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 3.3.

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)							

3.1.2 Detailed Third Interval Inservice Component Support Table:

The table for this section (Pages 3-20 to 3-28) lists the examinations performed for Section XI Inservice Inspection requirements for Class 1 and 2 component supports for the Third ISI Interval. 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 3.3.

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)					

3.1.3 Detailed Third Interval Inservice Snubber Table:

The table for this section (Pages 3-29 to 3-39) 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 3.3.

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)					

3.1.4 Detailed Third Interval Preservice Snubber Table:

The table for this section (Pages 3-40 to 3-44) lists the baseline examinations performed for Section XI Preservice Inspection requirements for Class 1 and 2 snubbers replaced during A2R15. 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 3.3.

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)					

3.1.5 Detailed Listing of Third Interval System Pressure Tests

The table for this section (Pages 3-45 to 3-51) lists the examinations performed for Section XI Inservice and Augmented Inspection requirements for Class 1 and 2 pressure test blocks credited to the Third ISI Interval. 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 3.3.

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

3.1.6 Detailed Borated Bolted Connection Table

The table for this section (Pages 3-52 to 3-54) 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 3.3.

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

3.3 General Inservice Report Information

3.3.1 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 surface or 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.

3.2.2 Report Abbreviations

ATI	-	Action Tracking Item
BMV	-	Bare Metal Visual Inspection
ET	-	Eddy Current (Steam Generator)
FUNCT	-	Snubber Functional Test
FSWOL	-	Full Structural Weld Overlay
GE/IND	-	Geometry/Indication
GEO	-	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 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Containment Spray System (CS)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
NA	ECCS 2CS-01-06 ELBOW - PIPE	2CS02AA-10"		NOTE 19	100	VOL	UT-0 UT-45 UT-70	NRI
Zero degree performed to determine thickness and contour, no counterbore detected.								
NA	ECCS 2CS-01-12 ELBOW - PIPE	2CS02AA-10"		NOTE 19	100	VOL	UT-0 UT-45 UT-70	NRI
Zero degree performed to determine thickness and contour, no counterbore detected.								
NA	ECCS 2CS-01-15 PIPE - PIPE	2CS02AA-10"		NOTE 19	100	VOL	UT-0 UT-45 UT-70	NRI
Zero degree performed to determine thickness and contour, no counterbore detected.								
R-A	R01.20 2CS-03-06 ELBOW - PIPE	2CS23AA-14"	I3R-01	NOTE 17	100	VOL-E	UT-0 UT-45	NRI
Zero degree performed to determine thickness and contour, no counterbore detected.								
R-A	R01.20 2CS-04-04 PIPE - ELBOW	2CS23AB-14"	I3R-01	NOTE 17	100	VOL-E	UT-0 UT-45	NRI
Zero degree performed to determine thickness and contour, no counterbore detected.								
NA	ECCS 2CS-05-06 ELBOW - PIPE	2CS02AB-10"		NOTE 19	100	VOL	UT-0 UT-45	NRI
Zero degree performed to determine thickness and contour, no counterbore detected.								
NA	ECCS 2CS-05-14 ELBOW - PIPE	2CS02AB-10"		NOTE 19	100	VOL	UT-0 UT-45	NRI
Zero degree performed to determine thickness and contour, no counterbore detected.								
NA	ECCS 2CS-05-17 PIPE - PIPE	2CS02AB-10"		NOTE 19	100	VOL	UT-0 UT-45	NRI
Zero degree performed to determine thickness and contour, no counterbore detected.								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Chemical & Volume Control System (CV)

Section XI	Component ID	Line Number	Relief	Technical	Code	Required	Actual	Results
Cat.	Description		Requests	Notes	Coverage	Exam	Exam	
Comments								
R-A	R01.11	2CV-05-03 ELBOW - PIPE	2CVA3B-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2CV-05-04 PIPE - ELBOW	2CVA3B-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2CV-05-05 ELBOW - PIPE	2CVA3B-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2CV-05-06 PIPE - ELBOW	2CVA3B-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2CV-05-13 PIPE - ELBOW	2CVA3B-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2CV-05-14 ELBOW - PIPE	2CVA3B-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2CV-11-06 PIPE - ELBOW	2CVA6AA-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2CV-11-07 ELBOW - PIPE	2CVA6AA-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
NA	ECCS	2CV-19-21 ELBOW - PIPE	2CV05CB-6"		NOTE 19	100	VOL	UT-0 UT-45
Zero degree performed to confirm no counterbore present. ID geometry observed below recordable levels.								
NA	ECCS	2CV-19-22 PIPE - ELBOW	2CV05CB-6"		NOTE 19	100	VOL	UT-0 UT-45
Zero degree performed to confirm no counterbore present. ID geometry observed below recordable levels.								
R-A	R01.11	2RC-36-15 PIPE - ELBOW	2CVA3AA-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-36-16 ELBOW - PIPE	2CVA3AA-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-36-17 PIPE - ELBOW	2CVA3AA-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-36-18 ELBOW - PIPE	2CVA3AA-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-37-13 PIPE - ELBOW	2CVA7AA-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-37-14 ELBOW - PIPE	2CVA7AA-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Feedwater System (FW)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
R-A	R01.11 2FW-02-04 R01.18 VALVE 2FW009A - PIPE	2FW03DA-16"	I3R-01	NOTE 09 NOTE 17	100	VOL-E	UT-45	NRI
Increased examination coverage for RI-ISI requirements.								
R-A	R01.11 2FW-02-05 R01.18 PIPE - PIPE	2FW03DA-16"	I3R-01	NOTE 09 NOTE 17	100	VOL-E	UT-45	GEO
Increased examination coverage for RI-ISI requirements.								
R-A	R01.11 2FW-02-06 R01.18 PIPE - PENETRATION (2PC-079) PIPE	2FW03DA-16"	I3R-01	NOTE 09 NOTE 17	100	VOL-E	UT-45	NRI
Increased examination coverage for RI-ISI requirements.								
R-A	R01.11 2FW-02-19 R01.18 PIPE - ELBOW	2FW03DA-16"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
ID geometry observed below recordable levels.								
R-A	R01.11 2FW-02-20 R01.18 ELBOW - PIPE	2FW03DA-16"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
ID geometry observed below recordable levels.								
R-A	R01.11 2FW-02-23 R01.18 PIPE - ELBOW	2FW03DA-16"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Increased examination coverage for RI-ISI requirements. ID geometry observed below recordable levels.								
R-A	R01.11 2FW-06-11 R01.18 ELBOW - ELBOW	2FW87CB-6"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Increased examination volume for RI-ISI requirements.								
R-A	R01.11 2FW-11-21 R01.18 PIPE - TEE	2FW81BA-6"	I3R-01	NOTE 09 NOTE 17	100	VOL-E	UT-45	NRI
Zero degree performed to confirm no counterbore exists.								
R-A	R01.11 2FW-11-22 R01.18 TEE - 6"X4" REDUCER	2FW87CA-6"	I3R-01	NOTE 09 NOTE 17	100	VOL-E	UT-45	NRI
Zero degree performed to confirm no counterbore exists.								
R-A	R01.11 2FW-11-23 R01.18 TEE - PIPE	2FW87CA-6"	I3R-01	NOTE 09 NOTE 17	100	VOL-E	UT-45	NRI
Zero degree performed to confirm no counterbore exists.								
R-A	R01.11 2FW-11-24 R01.18 PIPE - PIPE	2FW87CA-6"	I3R-01	NOTE 09 NOTE 17	100	VOL-E	UT-45	NRI
Zero degree performed to confirm no counterbore exists.								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Reactor Coolant System (RC)

Section XI	Component ID	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Cat.	Description							
Comments:								
R-A	R01.20 2RC-17-06 PIPE - ELBOW	2RC24AA-4"	I3R-01	NOTE 17	100	VOL-E	UT-45 UT-60 UT-70	NRI
Weld was stamped with incorrect weld number during initial construction, reference IR 1205964.								
R-A	R01.20 2RC-17-07 ELBOW - PIPE	2RC24AA-4"	I3R-01	NOTE 17	100	VOL-E	UT-45 UT-60 UT-70	NRI
Weld was stamped with incorrect weld number during initial construction, reference IR 1205964.								
R-A	R01.20 2RC-20-02 PIPE - ELBOW	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-20-03 ELBOW - PIPE	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-20-04 PIPE - ELBOW	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-20-05 ELBOW - PIPE	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-20-36 PIPE - ELBOW	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-20-37 ELBOW - PIPE	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-20-38 PIPE - ELBOW	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-20-39 ELBOW - PIPE	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-20-40 PIPE - ELBOW	2RC22AD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-29-11 VALVE 2RC8038C - PIPE	2RC16AC-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-29-12 PIPE - ELBOW	2RC16AC-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-29-13 ELBOW - PIPE	2RC16AC-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-29-14 PIPE - ELBOW	2RC16AC-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-29-15 ELBOW - PIPE	2RC16AC-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-29-16 PIPE - BRANCH CONNECT.	2RC16AC-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-30-11 PIPE - ELBOW	2RC13AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Reactor Coolant System (RC)

Section XI	Component ID	Line Number	Relief	Technical	Code	Required	Actual	Results
Cat.	Description		Requests	Notes	Coverage	Exam	Exam	
Comments:								
R-A	R01.20	2RC-30-12 ELBOW - PIPE	2RC13AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-13 PIPE - TEE	2RC13AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-14 TEE - 2"X.75" REDUCER	2RC13AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-15 TEE - PIPE	2RC13AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-16 PIPE - VALVE 2RC8040B	2RC13AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-18 PIPE - ELBOW	2RC13AC-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-19 ELBOW - PIPE	2RC13AC-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-20 PIPE - TEE	2RC13AC-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-21 TEE - 2"X.75" REDUCER	2RC13AC-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.20	2RC-30-22 TEE - PIPE	2RC13AC-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-01 BRANCH CONNECTION - PIPE	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-02 PIPE - ELBOW	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-03 ELBOW - PIPE	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-04 PIPE - ELBOW	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-05 ELBOW - PIPE	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-06 PIPE - ELBOW	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-07 ELBOW - PIPE	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-08 PIPE - VALVE 2RC8039B	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-09 VALVE 2RC8039B - PIPE	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2RC-31-09A.01 PIPE - TEE	2RC14AB-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Reactor Coolant System (RC)

Section XI Cat	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
R-A	R01.11 2RC-31-09B.01 TEE - PIPE	2RC14AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-31-09C.01 TEE - 2"X1" REDUCER	2RC86AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-31-10 PIPE - TEE	2RC14AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-31-11 TEE - 2"X.75" REDUCER	2RC15AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-31-12.01 TEE - PIPE	2RC14AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-31-14 BRANCH CONNECTION - PIPE	2RC26A-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2RC-31-15 PIPE - VALVE 2RC8057	2RC26A-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-37-07A.01 PIPE - TEE	2RC14AD-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-37-07B.01 TEE - PIPE	2RC14AD-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-37-07C.01 TEE - 2"X1" REDUCER	2RC14AD-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-37-08 PIPE - TEE	2RC14AD-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-37-09 TEE - 2"X.75" REDUCER	2RC14AD-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-37-10 TEE - PIPE	2RC14AD-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-37-11 PIPE - VALVE 2RC8037D	2RC14AD-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-41-03 VALVE 2RC8038A - PIPE	2RC16AA-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-41-04 PIPE - ELBOW	2RC16AA-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-41-05 ELBOW - PIPE	2RC16AA-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-41-06 PIPE - ELBOW	2RC16AA-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-41-07 ELBOW - PIPE	2RC16AA-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-41-08 PIPE - BRANCH CONNECT.	2RC16AA-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
R-A	R01.11 2RC-41-11 VALVE 2RC8038B - PIPE	2RC16AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-41-12 PIPE - ELBOW	2RC16AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2RC-41-13 ELBOW - PIPE	2RC16AB-2"	I3R-01	NOTE 17		VT-2	VT-2	NRI
NA	RG 1.14 2RCP-01-FLYWHEEL (PMP B) RCP PUMP "B" FLYWHEEL	2RCP01B		NOTE 18		SUR	PT	NRI
Was to be rescheduled from A2R15 to A2R19 per Service Request 00070948, but ten-year overhaul of RCP motor was performed under WO# 1417672, credit predefine WO# 971109.								
N-722	B15.090 2RV-01-022 N-722 MRP-139	2RC01R		NOTE 14 NOTE 17		Visual, VE	Visual, VE	NRI
NOZZLE - SAFE END (22 DEG.)								
N-722	B15.095 2RV-01-023 N-722 MRP-139	2RC01R		NOTE 14 NOTE 17		Visual, VE	Visual, VE	NRI
SAFE END - NOZZLE (67 DEG.)								
N-722	B15.095 2RV-01-024 N-722 MRP-139	2RC01R		NOTE 14 NOTE 17		Visual, VE	Visual, VE	NRI
SAFE END - NOZZLE (113 DEG.)								
Examination not credited for Code Case N-722 credit, all RPV nozzle-to-safe end welds were accessible (mirror insulation removed) for MSIP project dimension measurements and were examined by Visual, VE method.								
N-722	B15.090 2RV-01-025 N-722 MRP-139	2RC01R		NOTE 14 NOTE 17		Visual, VE	Visual, VE	NRI
NOZZLE - SAFE END (158 DEG.)								
N-722	B15.090 2RV-01-026 N-722 MRP-139	2RC01R		NOTE 14 NOTE 17		Visual, VE	Visual, VE	NRI
NOZZLE - SAFE END (202 DEG.)								
N-722	B15.095 2RV-01-027 N-722 MRP-139	2RC01R		NOTE 14 NOTE 17		Visual, VE	Visual, VE	NRI
SAFE END - NOZZLE (247 DEG.)								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Reactor Coolant System (RC)

Section XI Cat	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
N-722 B15.095	2RV-01-028 N-722	2RC01R		NOTE 14		Visual, VE	Visual, VE	NRI
	SAFE END - NOZZLE (293 DEG.)			NOTE 17				
MRP-139	Examination not credited for Code Case N-722 credit, all RPV nozzle-to-safe end welds were accessible (mirror insulation removed) for MSIP project dimension measurements and were examined by Visual, VE method.							
N-722 B15.090	2RV-01-029 N-722	2RC01R		NOTE 14		Visual, VE	Visual, VE	NRI
	NOZZLE - SAFE END (338 DEG.)			NOTE 17				
MRP-139								
B-N-1 B13.10	2RV-01-RX INTERIOR ACCESSIBLE INTERIOR SURFACES	2RC01R				VT-3	VT-3	NRI
Examination completed using underwater camera and remote monitor.								
N-722 B15.080	2RV-02-LOWER HEAD	2RC01R	I3R-04			Visual, VE	Visual, VE	IO
	N-722 LOWER HEAD SURFACE AND PENETRATIONS							
Bare metal visual in accordance with Code Case N-722. Stains from previous leaks through cavity boot seal are evident. Corrosion noted, but no significant wastage. Most significant staining at Penetrations 1, 4, 7, 18, 33, and 45.								
NA I-600	2RV-03-HEAD	2RC01R	I3R-07		95	Visual	Visual, VE	IO
	N-729-1 REACTOR HEAD SURFACE					VOL	VOL	NRI
Volumetric and visual examinations required by Code Case N-729-1.								
N-722 B15.120	2SG-01-2RC01BA DRAIN LINE	DRAIN				Visual, VE	Visual, VE	NRI
	STEAM GENERATOR BOWL DRAIN LINE							
Visual, VE examination of steam generator bowl drain inconel weld.								
B-Q B16.20	2SG-01-2RC01BA TUBING	2RC01BA				VOL	ET	IND
	STEAM GENERATOR TUBING							
Based on eddy current test results the following tubes (Row/Column) were plugged: 41/36, 45/64, 41/93, 10/50, 11/50, 10/51, 11/51, 30/84, 31/84, 30/85, 31/85, and 8/86								
B-G-2 B07.30	2SG-01-B1 9A PRIMARY MANWAY (16 BOLTS)	2RC01BA				VT-1	VT-1	NRI
B-G-2 B07.30	2SG-01-B2 9B PRIMARY MANWAY (16 BOLTS)	2RC01BA				VT-1	VT-1	NRI
N-722 B15.120	2SG-02-2RC01BB DRAIN LINE	DRAIN				Visual, VE	Visual, VE	NRI
	STEAM GENERATOR BOWL DRAIN LINE CONNECTION							
Visual, VE examination of steam generator bowl drain inconel weld.								
B-Q B16.20	2SG-02-2RC01BB TUBING	2RC01BB				VOL	ET	IND
	STEAM GENERATOR TUBING							
Based on eddy current test results the following tubes (Row/Column) were plugged: 15/7, 6/8, 7/22, 32/56, 24/68, 32/70, and 29/95.								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
N-722	B15.120	2SG-03-2RC01BC DRAIN LINE STEAM GENERATOR BOWL DRAIN LINE	DRAIN			Visual, VE	Visual, VE	NRI
Visual, VE examination of steam generator bowl drain inconel weld.								
B-Q	B16.20	2SG-03-2RC01BC TUBING STEAM GENERATOR TUBING	2RC01BC			VOL	ET	IND
Based on eddy current test results the following tubes (Row/Column) were plugged: 43/41 and 49/65								
C-A	C01.10	2SG-03-SGC-05 LOWER SHELL (B) - TRANSIT CONE	2RC01BC	NOTE 17	100	VOL	UT-45	NRI
C-A	C01.10	2SG-03-SGC-06 TRANSIT CONE - UPPER SHELL (A)	2RC01BC	NOTE 17	100	VOL	UT-45	NRI
C-B	C02.21	2SG-03-SGN-13 6" NOZZLE - UPPER SHELL (A)	2RC01BC	NOTE 17	100 100	SUR VOL	MT UT-0 UT-45	NRI
N-722	B15.120	2SG-04-2RC01BD DRAIN LINE STEAM GENERATOR BOWL DRAIN LINE CONNECTION	DRAIN			Visual, VE	Visual, VE	NRI
Visual, VE examination of steam generator bowl drain inconel weld.								
B-Q	B16.20	2SG-04-2RC01BD TUBING STEAM GENERATOR TUBING	2RC01BD			VOL	ET	IND
Based on eddy current test results the following tubes (Row/Column) were plugged: 7/61, 17/72, 44/73, 47/74, 47/75, 13/76, 43/86, 49/63, and 2/35								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Residual Heat Removal System (RH)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments:								
NA	ECCS 2RH-03-28 TEE - PIPE	2RH03AA-8"		NOTE 19		VOL	UT-45 UT-60 UT-70	RI
During augmented volumetric examination of RHR mixing tee for thermal fatigue/crazed cracking per MRP-192 an indication in the tee-to-pipe weld (nominal wall thickness of 0.322") was detected with 45 degree shear wave and confirmed by 60 degree shear wave. Through-wall sizing of the indication was performed using the Absolute Arrival Time Technique (AATT) which used 45, 60, and 70 degree shear wave scans (reference Data Sheet A2R15-UT-029). The flaw sized as 0.70" long with a remaining ligament of 0.185". IR 1208120 was initiated to document the flaw which was evaluated as acceptable for continued service under EC 384283. Although weld is not subject to ASME Section XI volumetric examinations due to wall thickness, weld will be examined during the next inspection period in accordance with IWC-2420(b) as tracked by ATI 1208120-02.								
R-A	R01.20 2RH-04-55 PIPE - ELBOW	2RH01CA-16"	I3R-01	NOTE 17	100	VOL-E	UT-0 UT-45	NRI
Zero degree performed to confirm no counterbore present. ID geometry observed below recordable levels.								
C-A	C01.10 2RHX-01-2RHEC-01 (A HX) FLANGE - HX SHELL	2RH02AA		NOTE 17 NOTE 30 N-706		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								
C-A	C01.10 2RHX-01-2RHEC-01 (B HX) FLANGE - HX SHELL	2RH02AB		NOTE 17 NOTE 30 N-706		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								
C-A	C01.20 2RHX-01-2RHEC-02 (A HX) HX SHELL - HEAD	2RH02AA	N-706	NOTE 17 NOTE 30		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								
C-A	C01.20 2RHX-01-2RHEC-02 (B HX) HX SHELL - HEAD	2RH02AB	N-706	NOTE 17 NOTE 30		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								
C-B	C02.22 2RHX-01-2RHXN1 (A HX) (NIR) 2A RH HX SHELL - NOZZLE INNER RADIUS	2RH02AA	N-706	NOTE 17 NOTE 30		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								
C-B	C02.21 2RHX-01-2RHXN1 (B HX) 2B RH HX SHELL - NOZZLE	2RH02AB	N-706	NOTE 17 NOTE 30		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								
C-B	C02.22 2RHX-01-2RHXN1 (B HX) (NIR) 2B RH HX SHELL - NOZZLE INNER RADIUS	2RH02AB	N-706	NOTE 17 NOTE 30		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								
C-B	C02.21 2RHX-01-2RHXN2 (A HX) NOZZLE - 2A RH HX SHELL	2RH02AA	N-706	NOTE 17 NOTE 30		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Residual Heat Removal System (RH)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
C-B	C02.22 2RHX-01-2RHXN2 (A HX) (NIR) NOZZLE - 2A RH HX SHELL NOZZLE INNER RADIUS	2RH02AA	N-706	NOTE 17 NOTE 30		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								
C-B	C02.22 2RHX-01-2RHXN2 (B HX) (NIR) NOZZLE - 2B RH HX SHELL NOZZLE INNER RADIUS	2RH02AB	N-706	NOTE 17 NOTE 30		Visual	VT-2	NRI
Periodic testing per Code Case N-706 completed/acceptable on 5/6/2011.								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Reactor Coolant System (RY)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
B-D	B03.110 2PZR-01-N2 SPRAY NOZZLE - PRESSURIZER	2RY01S		NOTE 17	88.5	VOL	UT-0 UT-45	NRI
Coverage limited due to nozzle configuration. Relief request required, tracked under ATI 894565-02.								
B-D	B03.120 2PZR-01-N2 (NIR) SPRAY NOZZLE - PRESSURIZER INNER RADIUS	2RY01S	10CFR	NOTE 13 NOTE 17	100	IRS	UT-24 UT-60 UT-65 UT-70	NRI
Scans included 24 degree (\approx 90 degree skew), 65 degree (\pm 18 degree skew), 60 degree shear wave, and 70 degree shear wave.								
B-D	B03.110 2PZR-01-N3 PRESSURIZER - RELIEF NOZZLE	2RY01S		NOTE 17	88.5	VOL	UT-0 UT-45	NRI
Coverage limited due to nozzle configuration. Relief request required, tracked under ATI 894565-02.								
B-D	B03.120 2PZR-01-N3 (NIR) PRESSURIZER - RELIEF NOZZLE INNER RADIUS	2RY01S	10CFR	NOTE 13 NOTE 17	100	IRS	UT-24 UT-60 UT-65 UT-70	NRI
Scans included 24 degree (\approx 90 degree skew), 65 degree (\pm 18 degree skew), 60 degree shear wave, and 70 degree shear wave.								
R-A	R01.15 2PZR-01-SE-01 R01.11 PZR SURGE NOZZLE - SAFE END MRP-139	2RY11A-14"	I3R-01 I3R-06	NOTE 14 NOTE 17		VOL-E	UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Augmented exam credit only.								
R-A	R01.15 2PZR-01-SE-02 MRP-139 PZR SAFETY NOZZLE - SAFE END	2RY03AA-6"	I3R-01 I3R-06	NOTE 14 NOTE 17	100	VOL-E	UT-40L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Augmented exam credit only.								
R-A	R01.15 2PZR-01-SE-03 MRP-139 PZR SAFETY NOZZLE - SAFE END	2RY03AB-6"	I3R-01 I3R-06	NOTE 14 NOTE 17	99.56	VOL-E	UT-0 UT-40L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Coverage for circumferential scan is 99.56%, coverage for axial scan is 99.53%. Coverage was limited due to shadow effects from laminar flaw. Augmented exam credit only.								
R-A	R01.15 2PZR-01-SE-04 MRP-139 PZR SAFETY NOZZLE - SAFE END	2RY03AC-6"	I3R-01 I3R-06	NOTE 14 NOTE 17	100	VOL	UT-40L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Augmented exam credit only.								
R-A	R01.15 2PZR-01-SE-05 R01.11 SAFE END - PZR SPRAY NOZZLE MRP-139	2RY01B-4"	I3R-01 I3R-06	NOTE 14 NOTE 17	100	VOL	UT-40L UT-43L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Section XI and augmented exam credit.								
R-A	R01.15 2PZR-01-SE-06 MRP-139 PZR RELIEF NOZZLE - SAFE END	2RY02A-6"	I3R-01 I3R-06	NOTE 14 NOTE 17	100	VOL	UT-40L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Section XI and augmented exam credit.								
R-A	R01.11 2RC-05-01 PZR SAFE END - PIPE	2RY11A-14"	I3R-01	NOTE 17	100	VOL-E	UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Augmented exam credit only.								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Reactor Coolant System (RY)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
R-A	R01.11 2RC-05-03 PIPE - PIPE	2RY11A-14"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Examination coverage increased to meet RI-ISI requirements. Previously recorded geometry observed below recordable levels.								
R-A	R01.11 2RC-05-04 PIPE - PIPE	2RY11A-14"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Examination coverage increased to meet RI-ISI requirements. Previously recorded geometry observed below recordable levels.								
R-A	R01.11 2RC-05-06 PIPE - PIPE	2RY11A-14"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Previously recorded geometry observed below recordable levels. Examination coverage increased to meet RI-ISI requirements.								
R-A	R01.11 2RC-16-01 SAFE END - 6"X4" REDUCER	2RY01C-4"	I3R-01	NOTE 17	94.4	VOL-E	UT-40L UT-43L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Examination coverage for axial scan was 94.4%, circumferential examination coverage was 100%. Augmented exam credit only.								
R-A	R01.11 2RC-16-02 6"X4" REDUCER - ELBOW	2RY01B-6"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Examination coverage increased to meet RI-ISI requirements.								
R-A	R01.11 2RC-16-03 ELBOW - PIPE	2RY01B-6"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Previously recorded geometry observed below recordable levels. Examination coverage increased to meet RI-ISI requirements.								
R-A	R01.11 2RC-16-04 PIPE - ELBOW	2RY01B-6"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Examination coverage increased to meet RI-ISI requirements. Previously recorded geometry observed below recordable levels.								
R-A	R01.20 2RC-32-01 SAFE END - ELBOW	2RY03AA-6"	I3R-01	NOTE 17	100	VOL-E	UT-40L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Augmented exam credit only.								
R-A	R01.20 2RC-32-07 SAFE END - ELBOW	2RY03AB-6"	I3R-01	NOTE 17	100	VOL-E	UT-40L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Augmented exam credit only.								
R-A	R01.20 2RC-32-13 SAFE END - ELBOW	2RY03AC-6"	I3R-01	NOTE 17	100	VOL-E	UT-40L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Augmented exam credit only.								
R-A	R01.20 2RC-35-01 SAFE END - ELBOW	2RY02A-6"	I3R-01	NOTE 17	100	VOL-E	UT-40L UT-45L	NRI
Overlay UT per Second Interval Relief Request I2R-48 and Section XI Appendix Q. Section XI and augmented exam credit.								
B-G-2	B07.50 2SI-23-B1 FLANGED CONNECTION (8 STUDS)	2RY76A-2"				VT-1	VT-1	NRI
Connection was examined prior to final reassembly under outage PM WO 1283152.								

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Safety Injection System (SI)

Section XI	Component ID	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Cat.	Description							
Comments								
R-A	R01.11	2SI-20-04 ELBOW - PIPE	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-05 PIPE - ELBOW	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-06 ELBOW - PIPE	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-07 PIPE - ELBOW	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-09 PIPE - FLANGE	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-10 ELBOW - PIPE	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-11 PIPE - ELBOW	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-12 VALVE 2SI8810C - PIPE	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-13 PIPE - VALVE 2SI8810C	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-14 2"X1.5" REDUCER - PIPE	2SI08JC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-15 COUPLING - 2"X1½" REDUCER	2SI08HC-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-20 2"X1.5" REDUCER - COUPLING	2SI08HC-2"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-21 PIPE - 2"X1½" REDUCER	2SI08GC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-22 ELBOW - PIPE	2SI08GC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-23 PIPE - ELBOW	2SI08GC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-24 ELBOW - PIPE	2SI08GC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-25 PIPE - ELBOW	2SI08GC-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-27 COUPLING - PIPE	2SI08GD-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-28 PIPE - ELBOW	2SI08GD-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI
R-A	R01.11	2SI-20-29 ELBOW - PIPE	2SI08GD-1.5"	I3R-01	NOTE 17	VT-2	VT-2	NRI

Section 3.1.1 Detailed Third Interval Inservice Inspection Weld Table

SYSTEM: Safety Injection System (SI)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments								
R-A	R01.11 2SI-20-30 PIPE - ELBOW	2SI08GD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2SI-20-31 ELBOW - PIPE	2SI08GD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.11 2SI-20-32 PIPE - 2"x1½" REDUCER	2SI08GD-1.5"	I3R-01	NOTE 17		VT-2	VT-2	NRI
R-A	R01.20 2SI-24-79 ELBOW - 24"x16" REDUCER	2SI06BB-24"	I3R-01	NOTE 17	100	VOL-E	UT-45	NRI
Zero degree performed to verify no counterbore exists.								

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Auxiliary Feedwater System (AF)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.20	2AF04031X Seismic	2AF02DB-4"		VT-3	NRI
This examination was added during the 3rd Interval ISI Program Update.						
F-A	F01.20	2AF05067X Seismic	2AF02DC-4"		VT-3	NRI
This examination was added during the 3rd Interval ISI Program Update.						
F-A	F01.20	2AF06044G Guide	2AF02EA-4"		VT-3	NRI
This examination was added during the 3rd Interval ISI Program Update.						
F-A	F01.20	2AF06046G Guide	2AF02DA-4"		VT-3	NRI
This examination was added during the 3rd Interval ISI Program Update.						

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Chemical & Volume Control System (CV)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.10	2RY06116V (1) Variable Spring Can	2CV45B-2"		VT-3	NRI
F-A	F01.10	2RY06129V (1) Variable Spring Can	2CV45B-2"		VT-3	NRI

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Feedwater System (FW)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.20	2AF07030X Strut	2FW81AD-6"		VT-3	NRI
RE-INSPECTION OF SUPPORT WITH RI FROM A2R14						
F-A	F01.20	2FW05007R Box	2FW03DD-16"		VT-3	NRI
F-A	F01.20	2FW08022X Strut	2FW87CC-6"		VT-3	NRI
F-A	F01.20	2FW09002C (1) Constant Spring Can	2FW87CD-6"		VT-3	NRI

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Main Steam System (MS)

Section XI		ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description					
Comments							
F-A	F01.20	2MS01205X Strut, integrally attached to pipe	2MS07AA-28"			VT-3	NRI
F-A	F01.20	2MS01221R Slide Plate	2MS07AB-28"			VT-3	NRI
F-A	F01.20	2MS08006R Steel	2MS01AD-30.25"			VT-3	NRI
F-A	F01.20	2PC-085A Anchor, Flued Head	2MS01BB-32.75"			VT-3 VT-3	NRI NRI
02/21 EXAM OUTSIDE CONTAINMENT, 03/31 EXAM INSIDE CONTAINMENT							

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Reactor Coolant System (RC)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments:						
F-A	F01.40	2RC01PC C RCP	2RC01PC		VT-3	NRI
F-A	F01.40	2RC01R REACTOR	2RC01R		VT-3	IO

Performed VT-3 in conjunction with N-722 examinations of RPV safe end-to-nozzle DM welds (A Hot Leg, B Cold Leg, C Hot Leg, and D Cold Leg). Sand Box Covers and mirror insulation were removed for access to component supports in support of MSIP planning walkdowns.

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Residual Heat Removal System (RH)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments:						
F-A	F01.10	2RH02053R Strut	2RH01AA-12"		VT-3	NRI
F-A	F01.10	2RH02062R Strut	2RH01AB-12"		VT-3	NRI
F-A	F01.10	2RH02065R Box	2RH01AA-12"		VT-3	NRI
F-A	F01.10	2RH02074X Strut	2RH01AB-12"		VT-3	NRI
F-A	F01.20	2RH07004R Slide Plate	2RH02AA-8"		VT-3	NRI
Remote exam (12' away).						
F-A	F01.20	2RH08002R Box	2RH02AB-8"		VT-3	NRI
Remote exam (12' away).						
F-A	F01.20	2SI18002R Rod	2RH03AA-8"		VT-3	NRI

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Reactor Coolant System (RY)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.10	2RY05009V (1) Variable Spring Can	2RY11A-14"		VT-3	NRI
F-A	F01.10	2RY06021C (2) Constant Spring Cans	2RY01B-6"		VT-3	NRI
F-A	F01.10	2RY06022G (2) Struts	2RY01B-6"		VT-3	NRI
F-A	F01.10	2RY06023X Strut	2RY01B-6"		VT-3	NRI
F-A	F01.10	2RY06024V (1) Variable Spring Can	2RY01B-6"		VT-3	NRI
F-A	F01.10	2RY06028X Box	2RY01B-6"		VT-3	NRI
F-A	F01.10	2RY06036X Strut	2RY01B-6"		VT-3	NRI

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Safety Injection System (SI)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.10	2RH02017R Strut	2SI04D-8"		VT-3	NRI
F-A	F01.10	2RH02020R Strut	2SI04D-8"		VT-3	NRI
F-A	F01.10	2RH02021R Box	2SI04D-8"		VT-3	NRI
F-A	F01.20	2RH02026R Strut	2SI04C-8"		VT-3	NRI
F-A	F01.20	2RH02031V (1) Variable Spring Can	2SI04B-12"		VT-3	NRI
F-A	F01.10	2RH02064V (1) Variable Spring Can	2SIA4B-8"		VT-3	NRI
F-A	F01.10	2SI11029X Box	2SI03DA-2"		VT-3	NRI
F-A	F01.20	2SI18027R Slide Plate	2SI04A-12"		VT-3	NRI
F-A	F01.20	2SI18039R Box	2SI05AB-8"		VT-3	NRI
F-A	F01.10	2SI20016X Strut	2SI08JC-1.5"		VT-3	NRI
F-A	F01.10	2SI20045X Strut	2SI08JC-1.5"		VT-3	NRI
F-A	F01.10	2SI20049R Strut	2SI08JC-1.5"		VT-3	NRI
F-A	F01.10	2SI21008R Box	2SI08JC-1.5"		VT-3	NRI
F-A	F01.10	2SI24003G U-Bolt	2SI08JA-1.5"		VT-3	NRI
F-A	F01.10	2SI24004G U-Bolt	2SI08JA-1.5"		VT-3	NRI
F-A	F01.10	2SI24005G U-Bolt	2SI08JA-1.5"		VT-3	NRI

Section 3.1.2 Detailed Third Interval Inservice Component Support Table

SYSTEM: Essential Service Water System (SX)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat. Item	Description					
Comments						
F-A	F01.20	2SX06001R Rod	2SX06BA-16"		VT-3	NRI
Examine upper attachment from 6' away.						
F-A	F01.20	2SX06030G Box	2SX08BA-10"		VT-3	NRI
F-A	F01.20	2SX07099A Anchor, integrally attached to pipe	2SX08AD-10"		VT-3	NRI
F-A	F01.20	2SX08001R Strut	2SX07FA-16"		VT-3	NRI
F-A	F01.20	2SX08002G Box	2SX07FA-16"		VT-3	NRI
Remote exam (12' away).						
F-A	F01.20	2SX08007X Strut	2SX07EA-14"		VT-3	NRI
Remote exam (12' away).						
F-A	F01.20	2SX08008X Strut	2SX07EA-14"		VT-3	NRI
F-A	F01.20	2SX08024X Strut	2SX07CA-10"		VT-3	NRI
F-A	F01.20	2SX08026X Box	2SX07CA-10"		VT-3	NRI
Remote exam (6' away).						
F-A	F01.20	2SX09006G Box	2SX07EB-14"		VT-3	NRI
F-A	F01.20	2SX09021R Box	2SX09CB-10"		VT-3	NRI
Remote Exam from above and below. Max. 12' away.						
F-A	F01.20	2SX09034G Box	2SX09CD-10"		VT-3	NRI
F-A	F01.20	2SX09112X Strut	2SX07CD-10"		VT-3	NRI
F-A	F01.20	2SX09118X Strut	2SX07CB-10"		VT-3	NRI

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Containment Spray System (CS)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.20	2CS03022S Snubber	2CS02AB-10"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2CS03106S Snubber	2CS02AB-10"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Chemical & Volume Control System (CV)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
NA	NA	2CV02005S Snubber	2CV10CB-3"	NOTE 01	VT-3 FT	PASS MARG
INITIAL SAMPLE DTPG 2-1, SERIAL NUMBER 12024 WAS REPLACED WITH SERIAL NUMBER 8014 DUE TO IDENTIFIED DEGRADATION DURING THE DRAG TEST IN COMPRESSION. REFERENCE ISSUE REPORT 1206126.						
NA	NA	2CV03002S Snubber	2CV10CA-3"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2CV06010S Snubber	2CVB7A-3"	NOTE 01	VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
NA	NA	2CV07032S Snubber	2CV01E-3"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-1						
NA	NA	2CV07033S Snubber	2CV01E-3"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
NA	NA	2CV07069S Snubber	2CV01E-3"	NOTE 01	VT-3 FT	NRI PASS
TESTED FOR SERVICE LIFE MONITORING						
NA	NA	2CV24024S Snubber	2CV43BB-2"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2CV25009S Snubber	2CVA7AA-2"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
NA	NA	2CV31007S Snubber	2CV15DA-.75"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-1						
NA	NA	2CV31011S Snubber	2CV15DA-.75"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-1						
NA	NA	2CV40005S Snubber	2CV14EC-2"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-1						
F-A	F01.10	2RY06121S Snubber	2CV45B-2"	NOTE 01	VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Feedwater System (FW)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.20	2FW02016S Snubber	2FW03DA-16"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.20	2FW03010S Snubber	2FW03DB-16"		NOTE 01 VT-3 FT	PASS PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.20	2FW03015S Snubber	2FW03DB-16"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.20	2FW04015S Snubber	2FW03DC-16"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2FW04017S Snubber	2FW03DC-16"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2FW05011AS Snubber	2FW03DD-16"		NOTE 01 VT-3 FT	NRI PASS
TESTED FOR SERVICE LIFE MONITORING						
F-A	F01.20	2FW05011BS Snubber	2FW03DD-16"		NOTE 01 VT-3 FT	NRI MARG
TESTED FOR SERVICE LIFE MONITORING. Snubber With S.N. 7036 Is Being Replaced During A2R15 Due To Marginal Test Results Observed During A2R14 (Reference IR Number 985759 and W/O 01299417.						
F-A	F01.20	2FW05020S Snubber	2FW03DD-16"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2FW05022S Snubber	2FW03DD-16"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Main Steam System (MS)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments:						
F-A	F01.20	2MS01074AS Snubber, integrally attached to pipe	2MS07AA-28"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2MS01074BS Snubber, integrally attached to pipe	2MS07AA-28"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2MS01097S Snubber, integrally attached to pipe	2MS07AB-28"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2MS05007AS Snubber, integrally attached to pipe	2MS01AA-30.25"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2MS05007BS Snubber, integrally attached to pipe	2MS01AA-30.25"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2MS06007AS Snubber, integrally attached to pipe	2MS01AB-32.75"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-3						
F-A	F01.20	2MS06007BS Snubber, integrally attached to pipe	2MS01AB-32.75"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Reactor Coolant System (RC)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.10	2CV06014S Snubber	2RC36A-3"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2CV06016S Snubber	2RC36A-3"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.10	2CV14001S Snubber	2RC16AD-2"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.10	2CV25002S Snubber	2RC14AD-2"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.40	2RC01BA-A Snubber	S.G. A		NOTE 01 VT-3	NRI
STEAM GENERATOR SNUBBER VISUAL EXAMINATION. RESERVOIR LEVEL ACCEPTABLE.						
F-A	F01.40	2RC01BA-B Snubber	S.G. A		NOTE 01 VT-3	NRI
STEAM GENERATOR SNUBBER VISUAL EXAMINATION. RESERVOIR LEVEL ACCEPTABLE.						
F-A	F01.40	2RC01BB-A Snubber	S.G. B		NOTE 01 VT-3	NRI
STEAM GENERATOR SNUBBER VISUAL EXAMINATION. RESERVOIR LEVEL ACCEPTABLE.						
F-A	F01.40	2RC01BB-B Snubber	S.G. B		NOTE 01 VT-3	NRI
STEAM GENERATOR SNUBBER VISUAL EXAMINATION. RESERVOIR LEVEL ACCEPTABLE.						
F-A	F01.40	2RC01BC-A Snubber	S.G. C		NOTE 01 VT-3	NRI
STEAM GENERATOR SNUBBER VISUAL EXAMINATION. RESERVOIR LEVEL ACCEPTABLE.						
F-A	F01.40	2RC01BC-B Snubber	S.G. C		NOTE 01 VT-3	NRI
STEAM GENERATOR SNUBBER VISUAL EXAMINATION. RESERVOIR LEVEL ACCEPTABLE.						
F-A	F01.40	2RC01BD-A Snubber	S.G. D		NOTE 01 VT-3	NRI
STEAM GENERATOR SNUBBER VISUAL EXAMINATION. RESERVOIR LEVEL ACCEPTABLE.						
F-A	F01.40	2RC01BD-B Snubber	S.G. D		NOTE 01 VT-3 FT	NRI PASS
Steam Generator Snubber Visual Examination and Functional Test. DTPG 2-4						
F-A	F01.10	2RC03007S Snubber	2RC21AC-8"		NOTE 01 VT-3 FT	PASS PASS
INITIAL SAMPLE DTPG 2-2						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Reactor Coolant System (RC)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments:						
NA	NA	2RC17069S Snubber	2RC20AB-.75"	NOTE 01	VT-3 FT	PASS MARG
TESTED FOR SERVICE LIFE MONITORING. Snubber Is Being Replaced During A2R15 Due To Marginal Test Results Observed During A2R14 (Reference IR Number 987527 and W/O 01299699).						
F-A	F01.10	2RY06104S Snubber	2RC26A-2"	NOTE 01	VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.10	2RY06106S Snubber	2RC26A-2"	NOTE 01	VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Residual Heat Removal System (RH)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat	Item	Description				
Comments						
F-A	F01.10	2RH02013S Snubber	2RH01AB-12"	NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2RH02052S Snubber	2RH01AA-12"	NOTE 01	VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Reactor Coolant System (RY)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
NA	NA	2RC93A001S Snubber	2RY34BB-.5"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-1						
F-A	F01.10	2RY05010S Snubber	2RY11A-14"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2RY06020S Snubber	2RY01B-6"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2RY06025S Snubber	2RY01B-6"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2RY06114S Snubber	2RY18A-2"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
NA	NA	2RY06125S Snubber	2RY09AB-.75"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-1						
F-A	F01.10	2RY09001S Snubber	2RY02B-3"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.10	2RY09005S Snubber	2RY02B-3"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.10	2RY09100S Snubber	2RY02B-3"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.10	2RY09101S Snubber	2RY06A-3"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Steam Generator Blowdown System (SD)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
NA	NA	2SD06032S Snubber			NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-1						
NA	NA	2SD11066S Snubber			NOTE 01 VT-3 FT	NRI MARG
INITIAL SAMPLE DTPG 2-1. SN 2598 was replaced with SN 42820 due to high drag values in both the Tension and Compression directions. Reference Issue Report 1204436.						
NA	NA	2SD12048S Snubber			NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-1						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Safety Injection System (SI)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat.	Item	Description				
Comments						
F-A	F01.10	2RH02018S Snubber	2SI04D-8"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						
F-A	F01.20	2RH02027S Snubber	2SI04C-8"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2RH02061S Snubber	2SI04D-8"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2RH02078S Snubber	2SIA4B-8"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2SI03018S Snubber	2SI05DD-6"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13. IO: Clamp is slightly skewed but well with the 10 degree conical tolerance. Acceptable per M-999 Sheet 10 Note 2A, and will not interfere with movement from cold to hot position and vice versa.						
F-A	F01.20	2SI09002S Snubber	2SI09BC-10"		NOTE 01 VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-2						
F-A	F01.10	2SI10036S Snubber	2SI03FB-2"		NOTE 01 VT-3	NRI
VISUAL EXAMINATION ONLY FOR ISTD / CODE CASE OMN-13						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.3 Detailed Third Interval Inservice Snubber Table

SYSTEM: Essential Service Water System (SX)

Section XI	ISI Identifier	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Cat. Item	Description					
Comments						
F-A F01.20	2SX09038S Snubber	2SX07CB-10"		NOTE 01	VT-3 FT	NRI PASS
INITIAL SAMPLE DTPG 2-3						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.4 Detailed Third Interval Preservice Snubber Table

SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat.	Item	Component ID Description	Line Number	Relief Requests	Technical Notes	Exam	Results
Comments:							
NA	NA	2CV02005S Snubber	2CV10CB-3"		NOTE 01	FT VT-3	PASS NRI
Existing mechanical snubber (Serial Number 12024) replaced with tested spare (Serial Number 8014) under WO# 1431482 .							

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.4 Detailed Third Interval Preservice Snubber Table

SYSTEM: Feedwater System (FW)

Section XI		Component ID	Line Number	Relief	Technical	Exam	Results
Cat.	Item	Description		Requests	Notes		
Comments:							
F-A	F01.20	2FW05011BS Snubber	2FW03DD-16"		NOTE 01	FT VT-3	PASS NRI
Existing mechanical snubber (Serial Number 7036) replaced with tested spare (Serial Number 47260) under WO# 1299417.							

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.4 Detailed Third Interval Preservice Snubber Table

SYSTEM: Reactor Coolant System (RC)

Section XI	Component ID	Line Number	Relief	Technical	Exam	Results
Cat.	Item	Description	Requests	Notes		
Comments						
NA	NA	2RC17069S Snubber	2RC20AB-.75"	NOTE 01	FT VT-3	PASS NRI
Existing mechanical snubber (Serial Number 2653) replaced with tested spare (Serial Number 42825) under WO# 1299699.						

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.4 Detailed Third Interval Preservice Snubber Table

SYSTEM: Reactor Coolant System (RY)

Section XI		Component ID	Line Number	Relief	Technical	Exam	Results
Cat.	Item	Description		Requests	Notes		
Comments							
F-A	F01.10	2RY05010S Snubber	2RY11A-14"		NOTE 01	VT-3	NRI
Existing damaged snubber pivot pin with a new pin under WO# 1432228.							

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.4 Detailed Third Interval Preservice Snubber Table

SYSTEM: Steam Generator Blowdown System (SD)

Section XI		Component ID	Line Number	Relief	Technical	Exam	Results
Cat.	Item	Description		Requests	Notes		
Comments							
NA	NA	2SD11066S Snubber	2SD01CH-2"		NOTE 01	FT VT-3	PASS NRI
Existing mechanical snubber (Serial Number 2598) replaced with tested spare (Serial Number 42820) under WO# 1430989.							

Note: Section XI Category numbers identified as "N/A" are exempt from IWF-1220 and IWF-2500 tables

Section 3.1.5 Detailed Third Interval Pressure Tests

SYSTEM: Chemical & Volume Control System (CV)

Section XI	Component ID	Relief	Technical	Required	Results
Cat. Item	Inspection Notes	Requests	Notes	Exam	
Comments:					
C-H	C07.10 A02CV-000004-M04-01A			VT-2	RI
	Period ASME Section XI Pressure Test.				
	2CV8409 - Recordable Indication - Through Wall Leak - IR 1166795				
	2CV8485A - Info Only - Packing leak - IR 1166609				
	2FT-0917 - Info Only - Minor Boric Acid - IR 1166613				
	2CV8109 - Info Only - Packing leak - IR1166614				
	2CV06A - Info Only - Bolted Conn Leak - IR 1166621				
	2CV8355A - Onfo Only - Packing leak - IR 1167003				
	2CV054A - Info Only - Valve Stem Packing - IR 1167007				
	2SI030B - Info Only - Valve Stem Packing - IR 1167012				
	2CV8355B - Info Only - Packing - IR 1167015				
	2CV203 - Info Only - Valve Stem - IR 1167122				
	2CV092A - Info Only - Valve Stem - IR 1167126				
	2CV8355C - Info Only - Packing - IR 1167136				
	2PS5274 - Info Only - Packing - IR 1166462				
	2CV03F - Info Only - Target Deposit - IR 1199169				
	Info Only:				
	IR 1167152 - Minor Boric Acid on 2A Ltd HX Drain Line				
	IR 1167154 - Minor Boric Acid on 2B LTD HX Drain Line				
	IR 1167159 - Minor Boric Acid at 2CV228A				
	IR 1167165 - Minor Boric Acid at 2CV8107A				
	IR 1167181 - Minor Boric Acid at 2CV031 Packing				
	IR 1167187 - Minor Boric Acid at 2BR003B Valve Stem				
C-H	C07.10 A02CV-000004-M04-01B		NOTE 24	VT-2	IO
	Period ASME Section XI Pressure Test.				
	WO 1130656 completed 4-8-11.				
	WO 1134996-01 started 4-18-11 in A2R15, completed 5-9-11.				
	No recordable indications.				
	See also WO 1134996.				
C-H	C07.10 A02ZZ-000078-M04-03D		NOTE 22	VT-2	IO
	Period ASME Section XI Pressure Test. Class 2 normally isolated components to be pressurized during mode 5.				
	A2R15 Mode 3 on 5-11-11:				
	2CVF5A - 3/4" - Info Only - Pipe Cap - IR 1214395				
	2CV066D - Info Only - Pipe Cap - IR 1214407				
	2CV066A - Info Only - Packing - Duplicate IRs 1214053 & IR 1214418				
	2CV077A - Info Only - Packing - Duplicate IRs 1214050 & IR 1214428				
	2CV220 - Info Only - Pipe Cap - Dipl IR 1214130 & IR 1214450				
	2FIS-0164 - Info Only - Packing - IR 1214461				
	2FT-0434 - Info Only - Fitting - IR 1214473				

Section 3.1.5 Detailed Third Interval Pressure Tests

SYSTEM: Fuel Pool Cooling System (FC)

Section XI		Component ID	Relief	Technical	Required	Results
Cat.	Item	Inspection Notes	Requests	Notes	Exam	
Comments						
C-H	C07.10	A02FC-000001-M04-01C Period ASME Section XI Pressure Test.			VT-2	NRI
C-H	C07.10	A02FC-000001-M04-01D Period ASME Section XI Pressure Test.			VT-2	NRI

Section 3.1.5 Detailed Third Interval Pressure Tests

SYSTEM: Instrument Air System (IA)

Section XI		Component ID	Relief	Technical	Required	Results
Cat.	Item	Inspection Notes	Requests	Notes	Exam	
Comments						
C-H	C07.10	A02IA-000004-M04-01A			VT-2	NRI
Period ASME Section XI Pressure Test. Verify Continuous Leak Detection System for Airlock is in operation prior to performing SNOOP or Ultraprobe examination of test boundary. Periodic Test using BwVS TRM 3.4.f.2-PC. No leakage observed.						

Section 3.1.5 Detailed Third Interval Pressure Tests

SYSTEM: Residual Heat Removal System (RH)

Section XI	Component ID	Relief	Technical	Required	Results
Cat. Item	Inspection Notes	Requests	Notes	Exam	
Comments					
C-H	C07.10 A02RH-000003-M04-01A		NOTE 22	VT-2	IO
	Period ASME Section XI Pressure Test. VERIFY loop "A" in service. Pressurize 2A sample line per BwCP 613-3.				
The following were noted for Information:					
Dry boron at packing on 2SI059A (IR 1212972); dry boron on packing at 2RH020A (IR 1212506); dry boron on packing 2RH021A (IR 1212508)					
C-H	C07.10 A02RH-000003-M04-01B		NOTE 22	VT-2	IO
	Period ASME Section XI Pressure Test. VERIFY loop "B" in service. Pressurize 2B sample line per BwCP 613-3.				NRI
					NRI
					RI
Recordable indication of dry boric (Bolts #12, 13, 31, 36, 39, and 41) acid and weepage (Bolt #9) on 2B RHR heat exchanger (IR 1213307).					
The following were noted for Information:					
Dry boron at packing 2RH003B (IR 1213315); dry boron at packing 2RH004B (1213313); dry boron at packing 2RH028B (IR 1207085)					
C-H	C07.10 A02RH-000003-M04-01D		NOTE 22	VT-2	IO
	Period ASME Section XI Pressure Test.				
Noted for Information:					
Dry boron at packing 2RH8701A (IR 1196781)					
C-H	C07.10 A02RH-000003-M04-01E		NOTE 22	VT-2	IO
	Period ASME Section XI Pressure Test.				
The following were noted for Information:					
Dry boron at packing 2RH8702A (IR 1196782); Leakage past pipe cap threads downstream of 2SI094 (IR 1203992)					

Section 3.1.5 Detailed Third Interval Pressure Tests

SYSTEM: Safety Injection System (SI)

Section XI		Component ID	Relief	Technical	Required	Results
Cat.	Item	Inspection Notes	Requests	Notes	Exam	
Comments						
C-H	C07.10	A02SI-000010-M04-01G Period ASME Section XI Pressure Test.		NOTE 22	VT-2	NRI
C-H	C07.10	A02ZZ-000010-M04-01J Period ASME Section XI Pressure Test.		NOTE 22	VT-2	IO
C-H	C07.10	A02ZZ-000010-M04-01K Period ASME Section XI Pressure Test.		NOTE 22	VT-2	NRI
C-H	C07.10	A02ZZ-000010-M04-01L Period ASME Section XI Pressure Test.		NOTE 22	VT-2	IO
C-H	C07.10	A02ZZ-000010-M04-01M Period ASME Section XI Pressure Test.		NOTE 22	VT-2	NRI

Section 3.1.5 Detailed Third Interval Pressure Tests

SYSTEM: Essential Service Water System (SX)

Section XI Cat. Item	Component ID Inspection Notes	Relief Requests	Technical Notes	Required Exam	Results
Comments					
C-H C07.10	A02SX-000011-M04-01E Period ASME Section XI Pressure Test.			VT-2	IO NRI
Information only (4/18/2011 exam): Slight corrosion on piping wall due to sweat, no degradation noted.					
NRI: 2D RCFC 4/26/2011; 2B RCFC 4/27/2011					
C-H C07.10	A02SX-000011-M04-01F Period ASME Section XI Pressure Test.			VT-2	IO NRI
Information only (4/18/2011 exam): Slight corrosion on piping wall due to sweat, no degradation noted.					
NRI: 2C RCFC (right bank) 4/19/2011; 2C RCFC (left bank) 4/24/2011; 2A RCFC 4/22/2011					

Section 3.1.5 Detailed Third Interval Pressure Tests

SYSTEM: Plant Systems Pressurized During Mode 3 (ZZ)

Section XI	Component ID	Relief	Technical	Required	Results
Cat. Item	Inspection Notes	Requests	Notes	Exam	
Comments					
B-P	B15.10 A02ZZ-000005-M04-01A		NOTE 22 NOTE 23	VT-2	RI
Each Refueling Outage Generic Letter 88-05 Examinations Class 1: PMID 55141-01. Class 2 and 3: PMID96032-17.					
2SI08JB: Recordable Indication - Dry boric acid found at flange (IR1214416).					
2RC8037A: Recordable Indication - Inactive Body-Bonnet leak (IR 1214436).					
C-H	C07.10 A02ZZ-000078-M04-03A		NOTE 22	VT-2	IO
Period ASME Section XI Pressure Test. All Class 2 components inside containment. VT-2 visual inspection of components outside Missile Barrier may be performed during Mode 1/3 if conditions permit. Valve in EX and LTD HX'ers when perform.					
The following indications were noted for Information:					
2CV203 pipe cap (IR 1214395); 2CV066A pipe cap (IR 1214418); 2CV067A pipe cap (IR 1214428); 2CV066D pipe cap (IR 1214407); 2CV220 pipe cap (IR 1214450); 2FIS-0164 (IR 1214461); 2FT-0434 (IR 1214473); 2FT-0424 (IR 1214484);					
C-H	C07.10 A02ZZ-000078-M04-03B		NOTE 22	VT-2	NRI
Period ASME Section XI Pressure Test. Class 2 components inside / outside containment which are normally pressurized during modes 1-3.					
First period walkdown performed during plant start-up from A2R15, no evidence of leakage noted.					

Section 3.1.6 Detailed Borated Bolted Connection Table

SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat.	Item	Component ID Description	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
B-P	B15.10	2CV-03-B1 (B-P) FLANGED CONNECTION (4 STUDS)			VT-2	NRI
B-P	B15.10	PG-2546C-214 F-2-2 (B-P) FLANGED CONNECTION (4 STUDS)			VT-2	NRI
C-H	C07.10	PG-2546C-220 F-1 (C-H) FLANGED CONNECTION (4 STUDS)			VT-2	NRI
C-H	C07.10	PG-2546C-241 F-1-1 (C-H) FLANGED CONNECTION (4 STUDS)			VT-2	NRI
EXAMINE DUE TO EVIDENCE OF LEAKAGE IDENTIFIED DURING A2R14.						
B-P	B15.10	PG-2546C-271 F-2-3 (B-P) FLANGED CONNECTION (4 STUDS)			VT-2	NRI
C-H	C07.10	PG-2546C-289 F-1 (C-H) FLANGED CONNECTION (8 STUDS)			VT-2	NRI
RE-EXAMINE DUE TO IDENTIFICATION OF LEAKAGE DURING A2R14						
C-H	C07.10	PG-2546C-290 F-1 (C-H) FLANGED CONNECTION (8 STUDS)			VT-2	NRI
B-P	B15.10	PG-2546C-301 F-2-2 (B-P) FLANGED CONNECTION (4 STUDS)			VT-2	NRI

Section 3.1.6 Detailed Borated Bolted Connection Table

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.	Item	Component ID Description	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
B-P	B15.10	2PZR-01-B1 (B-P) MANWAY BOLTING (16 TOTAL)			VT-2	NRI
B-P	B15.10	2RC-20-B1 (B-P) FLANGED CONNECTION (4 STUDS)			VT-2	NRI
B-P	B15.10	2RC-32-B4 (B-P) FLANGED CONNECTION (12 STUDS)			VT-2	NRI
B-P	B15.10	2RC-32-B5 (B-P) FLANGED CONNECTION (12 STUDS)			VT-2	NRI
B-P	B15.10	2RC-32-B6 (B-P) FLANGED CONNECTION (12 STUDS)			VT-2	NRI
B-P	B15.10	2RV-03-STUDS (01 TO 54, B-P) CLOSURE HEAD STUDS (54 TOTAL)			VT-2	NRI
Note: Stud Number 37 Cut Off.						
B-P	B15.10	2SG-01-B1 (B-P) 9A PRIMARY MANWAY (16 BOLTS)			VT-2	NRI
B-P	B15.10	2SG-01-B2 (B-P) 9B PRIMARY MANWAY (16 BOLTS)			VT-2	NRI
B-P	B15.10	2SG-02-B1 (B-P) 9A PRIMARY MANWAY (16 BOLTS)			VT-2	NRI
B-P	B15.10	2SG-02-B2 (B-P) 9B PRIMARY MANWAY (16 BOLTS)			VT-2	NRI
B-P	B15.10	2SG-03-B1 (B-P) 9A PRIMARY MANWAY (16 BOLTS)			VT-2	NRI
B-P	B15.10	2SG-03-B2 (B-P) 9B PRIMARY MANWAY (16 BOLTS)			VT-2	NRI
B-P	B15.10	2SG-04-B1 (B-P) 9A PRIMARY MANWAY (16 BOLTS)			VT-2	NRI
B-P	B15.10	2SG-04-B2 (B-P) 9B PRIMARY MANWAY (16 BOLTS)			VT-2	NRI

Section 3.1.6 Detailed Borated Bolted Connection Table

SYSTEM: Residual Heat Removal System (RH)

Section XI	Component ID	Relief	Technical	Actual	Results
Cat: Item	Description	Requests	Notes	Exam	
Comments					
C-H C07.10	2RH-12 F-3-1 (C-H) FLANGED CONNECTION (12 STUDS)			VT-2	NRI
EXAMINE DUE TO RI IDENTIFIED DURING THE PREVIOUS EXAM.					

4.0 REPORT OF CONTAINMENT DEGRADATION

Containment inspections are performed in accordance with Subsection IWE (Requirements for Class MC and Metallic Liners of Class CC Components of Light-Water Cooled Power Plants) and Subsection IWL (Requirements for Class CC Components of Light-Water Cooled Power Plants) of ASME Section XI, Division 1, with specified modifications and limitations in 10 CFR 50.55a. The following sections are included in the Inservice Inspection Summary report as required by IWA-6000 of ASME Section XI to meet the reporting conditions specified in 10CFR 50.55a(b)(2)(ix)(A)(1) through (3).

The following discusses examinations performed in accordance with ASME Section XI, Subsections IWE and IWL respectively.

4.1 A2R15 Containment Metal Liner Examinations (IWE)

The Third Interval First Period Class MC General Visual Examinations were completed during A2R15. All indications identified during the General Visual Examinations were reviewed and accepted as is by the Responsible Individual as defined in ASME Section XI.

The completed surveillances for IWE contain all the examination details along with indications recorded and their associated evaluations required by ASME Section XI.

The following discusses augmented exams performed under the containment moisture barrier.

Augmented Section XI IWE examinations of the Class CC liner examinations for the Third Interval were performed in accordance with the requirements of ASME Section XI, Table IWE-2500-1, Category E-C, Containment Surfaces Requiring Augmented Examination.

Exelon Procedures ER-AA-330-007, "*Visual Examination of ASME Section XI Class MC Surfaces and Class CC Liners*", ER-AA-335-018, "*Detailed, General Visual, VT-1, VT-1C, VT-3 and VT-3C, Visual Examination of ASME Class MC and CC Containment Surfaces and Components*", and ER-AA-335-004 "*Ultrasonic Measurement Of Material Thickness and Interfering Conditions*" were used to perform the examinations.

Six sections of the containment moisture barrier were removed for the purpose of performing augmented examinations of the containment liner surface. These examinations were required due to identification of degradation during past examinations. The results of the examinations revealed no evidence of degradation that had not been identified during past examinations. The conditions remained unchanged with no evidence of additional degradation.

A description of the type and estimated extent of degradation, and the conditions that led to the degradation [10CFR 50.55a(b)(2)(ix)(A)(1)]:

The results of the examinations revealed no evidence of degradation that had not been identified and evaluated as acceptable by the Responsible Individual during past

examinations. The conditions remained unchanged. The previous evaluation was documented under Engineering Change 377614.

Extent of condition:

No extent of condition augmented examinations were required during A2R15.

Description of the conditions that led to the degradation:

As originally identified during the A2R08 examinations, the identified liner degradation was a result of moisture barrier aging and mechanical damage of the moisture barrier that occurred during maintenance activities. The damage of the moisture barrier resulted in a leakage path for water impingement on the liner. The primary source of the water is condensation from the containment fan cooling units. The entire moisture barrier was removed, examinations performed, areas coated and the moisture barrier was replaced during A2R08.

**Evaluation of each area, and the result of the evaluation
[10CFR 50.55a(b)(2)(ix)(A)(2)]:**

The results of the A2R15 examinations revealed no evidence of degradation that had not been identified and evaluated as acceptable by the Responsible Individual during past examinations. The conditions remained unchanged. The previous evaluation was documented under Engineering Change 377614.

**Description of Necessary Corrective Actions Completed
[10CFR 50.55a(b)(2)(ix)(A)(3)]:**Proposed Actions for A2R16:

Additional VT-1 (Detailed Visual) and ultrasonic thickness examinations are scheduled in A2R16 refueling outage to examine the condition of the liner plate below the moisture barrier at the three locations. These three locations were examined during A2R15 with no evidence of changes from conditions identified during the previous augmented examinations. They are being scheduled for successive exams during A2R16.

Conclusions/Findings

Based on the conclusions of the previous evaluation (Engineering Change Number 377614) and the fact that no additional degradation was identified during the A2R15 augmented examinations, the liner plate containing the degraded conditions below the moisture barrier (MB) in Unit 2 containment is acceptable and capable of performing its intended design function.

4.2 A2R15 Class CC (IWL) Containment Examinations

The Units 1 and 2 25th Year ASME Section XI WL Post Tensioning and Concrete examinations and tests began in June of 2011. The Post Tensioning surveillance is scheduled to be completed in September 2011 while the containment concrete examinations are scheduled to be completed in December 2011. Final reporting in

**Braidwood Station Unit 2
A2R15 ISI Outage Report**

accordance with ASME Section XI IWL-3310 and 10CFR50.55a will be included in the IWA-6000 ISI Summary Report for Refuel Outage A1R16 which is currently scheduled for April 2012.

At the time of preparation of this report, the presence of free water, IWL-3221.3 (a) is the only identified reportable condition. Chemical analysis for the sheathing filler and free water are in progress. However, results are pending. Table 4.2-1 describes the presence of free water identified for the specific tendons for available results. With the exception of the dome tendons, all locations are below grade level.

**Table 4.2-1
Containment Tendon Inspection Results (As of 7/25/2011)**

Unit	Reason For Examination Selection	Tendon Identifier	Tendon Type	Tendon End	Free Water Collected (Ounces)	Visual Examination Results
1	Augmented Free Water	H-01-AC	Hoop	Field	3	Note 1
1	Augmented Free Water	H-02-AC	Hoop	Field	1	Note 1
1	Augmented Free Water	H-02-BA	Hoop	Shop	6	Note 1
1	Augmented Free Water	H-02-BA	Hoop	Field	7	Note 1
1	25 th Year ISI	V-142	Vertical	Field	11	Note 1
2	Augmented Free Water	H-01-ED	Hoop	Field	7	Note 1
2	Augmented Free Water	H-01-ED	Hoop	Shop	< 1	Note 1
2	Augmented Free Water	H-01-FE	Hoop	Shop	5	Note 1
2	Augmented Free Water	H-02-ED	Hoop	Field	< 2	Note 1
2	Augmented Free Water	H-04-DF	Hoop	Field	60	Note 1
2	Augmented Free Water	H-04-ED	Hoop	Field	50	Note 1
2	Augmented Free Water	H-04-ED	Hoop	Shop	2	Note 1
2	Augmented Free Water	H-05-ED	Hoop	Shop	6	Note 1
2	Augmented Free Water	H-05-FE	Hoop	Field	55	Note 1
2	Augmented Free Water	H-05-FE	Hoop	Shop	< 1	Note 1
2	Augmented Free Water	H-06-FE	Hoop	Field	26	Note 1
2	Augmented Free Water	V-217	Vertical	Field	2	Note 2
2	Augmented Free Water	V-241	Vertical	Field	1	Note 2
2	Augmented Free Water	V-249	Vertical	Field	84	Note 2
2	25 th Year ISI	D-04-36	Dome	Field	54	Note 2
2	Augmented Free Water	D-04-38	Dome	Shop	2	Note 1
2	Augmented Free Water	D-04-38	Dome	Field	512	Note 2
2	Augmented Free Water	D-04-27	Dome	Shop	4	Note 2
2	Augmented Free Water	D-04-27	Dome	Field	< 1	Note 2
2	Augmented Free Water	D-06-13	Dome	Shop	12	Note 1
2	Grease Leak Repair	D-04-39	Dome	Shop	14	Note 2

Note 1: No evidence of degradation or active corrosion was identified on either the anchorage components or the surrounding concrete. Sheathing filler was not discolored (indicative of moisture saturation) in the as found condition.

Note 2: No evidence of degradation or active corrosion was identified on either the anchorage components or the surrounding concrete. However, the sheathing filler was discolored (light, cream colored which is indicative of saturation) in the as found condition.

Conclusions/Findings

Based on the as found conditions where no degradation or active corrosion was identified on the anchorage components or surrounding concrete, there is no indication the presence of free water has resulted in any degradation of the specific tendons, post tensioning systems, or the containment structures. At the time the A2R15 ISI Summary Report was being prepared these conditions were being evaluated in accordance with ASME Section XI, IWL-3222. Any additional examination results subject to reporting requirements will be incorporated into the next Braidwood Station ISI Summary Report which will be submitted within ninety days after the conclusion of the A1R16 (Spring 2012) outage.

5.0 NIS-1 FORM

As required by IWA-6000 of Section XI, this section contains the Owner's Report for Inservice Inspections, Form NIS-1, for the inservice examination of Class 1 and Class 2 pressure retaining components.

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner Exelon Generation Company (EGC, LLC), 200 Exelon Way, Kennett Square, PA, 19348
(Name and Address of Owner)
2. Plant Braidwood Station, 35100 South Route 53, Suite 84, Braceville, Illinois 60450
(Name and Address of Plant)
3. Plant Unit 2 4. Owner Certificate of Authorization (if required) Not Applicable
5. Commercial Service Date 10/17/1988 6. National Board Number for Unit N-197
7. Components Inspected See Section 3 of this report for all components (report is a total of 119 pages).

Component or Appurtenance	Manufacturer Or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel 2RC01R	Babcock & Wilcox	640-0014-52	B-24360	N-195
Pressurizer 2RY01S	Westinghouse	2101	U-199012	18696
Steam Generator 2RC01BA	Westinghouse	CDGT-2111	N/A	20
Steam Generator 2RC01BB	Westinghouse	CDGT-2112	N/A	21
Steam Generator 2RC01BC	Westinghouse	CDGT-2113	N/A	22
Steam Generator 2RC01BD	Westinghouse	CDGT-2114	N/A	23
Residual Heat Removal Heat Exchanger 2RH02AA	Joseph Oat Corporation	2267-1F	U-199322	841
Residual Heat Removal Heat Exchanger 2RH02AB	Joseph Oat Corporation	2267-1H	U-199325	843

See Sections 3.1 through 3.1.6 and associated tables for the specific Class 1 and 2 component locations examined for the Third Interval ISI Program.

FORM NIS-1 (Back)

8. Examination Dates: November 3, 2009 to July 28, 2011
9. Inspection Period Identification: 1st Period, Third Interval - From October 16, 2008 through October 16, 2011
10. Inspection Interval Identification: 3rd Interval - From October 17, 2008 through October 16, 2018
11. Applicable Edition of Section XI 2001 Edition Addenda 2003 Addenda
12. Date/Revision of Inspection Plan: May 5, 2011 / Revision 3b
including Code Cases N-460, N-508-3, N-566-2, N-686-1, N-700, N-706, N-722, N-729-1
13. Abstract of Examination and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Attached Sections 2 and 3.
14. Abstract of Results of Examinations and Tests. See Attached Sections 2 and 3.
15. Abstract of Corrective Measures. See Attached Sections 2 and 3.

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) Not Applicable Expiration Date Not Applicable

Date August 3 20 11 Signed Exelon Nuclear Braidwood Station

By Brendan J. Cosay Braidwood ISI Program Manager
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the components described in this Owner's Report during the period 11-3-09 to 7-28-11 and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes and warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

I. [Signature] Commissions NB#8756, IL#1085, N I C
Inspector's Signature National Board, State, Province, and Endorsements

Date August 5 20 11

Braidwood Unit 2 Non-Deferrable Class 1 and Class 2 Inspection Status (Third Interval) After A2R15 per IWA-6220(f)				
Code Category	Code Item Number	Total Number Selected (Interval)	Total Number Examined in A2R15	Current Percentage Completed for Category
B-A	B1.30	1	0	0%
	B1.40	1	0	
B-B	B2.11	2	0	2/5 = 40%
	B2.12	2	0	
	B2.40	1	0	
B-D	B3.110	6	2	4/20 = 20%
	B3.120	6	2	
	B3.140	8	0	
B-K	B10.10	1	0	1/3 = 33%
	B10.20	2	0	
B-N-1	B13.10	1	1	Once Per Period
B-P	B15.10	Every Outage	1	Not Applicable
B-Q	B16.20	Per Technical Specifications	4	Not Applicable
C-A	C1.10	4	2	2/7 = 28%
	C1.20	2	0	
	C1.30	1	0	
C-B	C2.21	5	1	1/6 = 16%
	C2.22	1	0	
C-C	C3.10	1	0	4/13 = 30.7%
	C3.20	9	0	
	C3.30	3	0	
C-H	C7.10	38	18	18/38 = 47.3%
F-A	F1.10	167	25	131/455 = 28.8%
	F1.20	186	35	
	F1.30	73	13	
	F1.40	29	2	
R-A	Butt Welds	202	23	38/202 = 18.8%
	Socket Welds	96 Welds Every Outage	96	

6.0 NIS-2 FORM (OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS)

SUMMARY OF NIS-2 FORMS

The following table provides the Class 1 and 2 ASME Section XI repairs completed since the last outage report (A2R14). Activities where the replacement item installed was a rotated spare are not included in this summary as allowed by IWA-4132(g) and Code Case N-508-3.

System		ASME Code Classification	
		Code Class 1	Code Class 2
CV	Chemical & Volume Control	-	5
CS	Containment Spray	-	1
FW	Feedwater	-	1
MS	Main Steam	-	4
RC	Reactor Coolant	9	3
RH	Residual Heat Removal	-	3
RY	Reactor Coolant/Pressurizer	1	-
SD	Steam Generator Blowdown	-	1
SI	Safety Injection	-	4
Total NIS-2 Forms			32

Associated NIS-2 Forms and associated Code Data Reports are attached (47 total pages).

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC Date 7/7/2011
 Address: 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 1
2. Plant Name: Braidwood Station Unit: 2
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407
 Work Order #01148456-01
 Repair/Replacement Organization P.O., Job No., etc
3. Work Performed By: Shaw / Stone & Webster Type Code Symbol Stamp: None
 Address: 36400 South Essex Road, Wilmington, IL 60481 Authorization No.: None
 Expiration Date: None
4. Identification of System: Chemical Volume and Control (CV) (Class 2)
5. (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None
6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Existing Valve Cover and Body-to-Cover Seal Weld Valve 2CV8348	Kerotest	Not Recorded	Not Applicable	Valve 2CV8348	Not Recorded	Removed	Yes (Valve)
Body-to-Cover Seal Weld Weld Electrode 3/32" ER316/316L	Arcos Industries, LLC	Lot CT8660 Heat 734816	Not Applicable	Cat ID 8500-1 UTC 2808606	2007	Installed (Corrected)	No

7. Description of Work: Removed existing seal weld to provide access to valve internals for check valve inspection. After inspection was completed, the existing valve cover was reinstalled and seal weld was reapplied. Seal weld was examined by liquid penetrant and was rejected. Indication was removed and repaired by welding. Seal weld was again examined by liquid penetrant and found acceptable.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Nominal psig Test Temp. Nominal °F
9. Remarks: Seal welds are exempt from Section XI pressure testing requirements per IWA-4550(b)(8), but valve was examined by VT-2 method on 5/5/2011 during periodic system pressure testing and found acceptable. Applicable documentation for replacement valve seal weld filler material was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 7/7, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 11/22/2010 to 7/7/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

J. Hume
 Inspector's Signature

Commissions IL1085

National Board, State, Province, and Endorsements

Date 7-11, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348
2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 7/28/2011
 Sheet 1 of 1

Unit: 2

Work Order #01269949-01
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 South Essex Road, Wilmington, IL 60481

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Chemical Volume and Control (CV) (Class 2)

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Existing Valve Cover and Body-to-Cover Seal Weld Valve 2CV8368B	Borg Warner	Not Recorded	Not Applicable	Valve 2CV8368B	Not Recorded	Removed	Yes (Valve)
Weld Rod 3/32" ER316/316L	Arcos Industries, LLC	Lot CM8256 Heat 734816	Not Applicable	Cat ID 8500-1 UTC 2808606	2007	Installed	No

7. Description of Work: Removed existing seal weld to provide access to valve internals for check valve inspection. After inspection was completed, the existing valve cover was reinstalled and seal weld was reapplied. Seal weld was examined by liquid penetrant in the finished condition.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☒ Pressure Nominal psig Test Temp. Nominal °F
9. Remarks: Valve was examined during the ascending Mode 3 walk down on 5/11/2011 after four hour hold time and was found acceptable. There is no specific instrumentation for monitoring system pressure or temperature for this valve. Applicable documentation for replacement seal weld filler materials was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 7/28, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/5/2011 to 7/28/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 8-1-11, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
Address: 300 Exelon Way, Kennett Square, PA 19348
Date 7/26/2011
Sheet 1 of 1
2. Plant Name: Braidwood Station
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407
Unit: 2
Work Order #00819603-01
Repair/Replacement Organization P.O., Job No., etc
3. Work Performed By: Shaw / Stone & Webster
Address: 36400 South Essex Road, Wilmington, IL 60481
Type Code Symbol Stamp: None
Authorization No.: None
Expiration Date: None
4. Identification of System: Chemical Volume and Control (CV) (Class 2)
5. (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
(b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
(c) Section XI Code Cases used: None
6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Bonnet for Valve 2CV8394 <i>See 7/27/2011</i>	ITT Grinnell Valve Co.	Not Recorded	Not Applicable	Valve 2CV8394	Not Recorded	Removed	Yes (Valve)
Bonnet from New Valve Assembly	ITT Grinnell Valve Co.	Serial Number 76-2099-3-1 (Valve Bonnet)	Not Applicable	Cat ID 40478-1 UTC 2885756 SI# 803D13 QRI A91-02574	1980	Installed	Yes

7. Description of Work: Removed and replaced existing valve bonnet to correct leakage. Repair/Replacement Plan was not initiated prior to replacement (reference Issue Report 1241901).
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☒ Pressure 25 psig Test Temp. 105 °F
9. Remarks: Visual leak check had been performed and accepted by Operations on 5/2/2011. VT-2 examination was performed and acceptable on 7/20/2011. Applicable documentation for replacement valve bonnet (Form NPV-1) was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 7/26, 2011
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 7/20/2011 to 7/26/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

I. M. ...
Inspector's Signature

Commissions IL1085
National Board, State, Province, and Endorsements

Date 7-27, 2011

As Required by the Provisions of the ASME Code Rules

- (Brief description of service for which equipment was designed)

6. Design Conditions _____ 300 _____ psi _____ 1501 0803 _____ F
(Pressure) (Temperature)

7. The material, design, construction, and workmanship comply with ASME Code Section III, Class _____ 2

Edition _____ 1971 _____ Summer 1972 _____ Case No. 1540-1

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in Items 1, 2, 3a and 3b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

A91-02574 Page 6-5

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
76-2099-3-1			
Studs	ASME SA453	Victor Prods.	Grade 660
76-2099-3-1			
Nuts	ASME SA194	V R Machine	Grade 6
(d) Other Parts			
Diaphragm-Grade M	-	Colonial Rubber	EPT Nordel
Vent Plugs	ASME SA194	Stainless Prod.	Grade 6

8. Hydrostatic test 450 psi.

RIN/QRI A 91-02574

CERTIFICATION OF DESIGN

Design information on file at ITT Grinnell Valve Co., Inc., Lancaster, Pa.
 Stress analysis report on file at " " " " " " " "
 Design specifications certified by Louis J. Malandra (1) Prof. Eng. State PA Reg. No. 13868
 Stress analysis report certified by NA (1) Prof. Eng. State Reg. No.
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.

Date Oct 23 1980 Signed ITT Grinnell Valve Co., Inc. (Manufacturer) [Signature]

Certificate of Authorization No. N-2092-1 expires 4/7/81

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of PA and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected the equipment described in this Data Report on OCT 23 1980, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Oct. 23 1980

[Signature]
(Inspector)

Commissions NB 7592
(National Board, State, Province and No.)

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 7/20/2011
 Sheet 1 of 1

Unit: 2

Work Order #01405325-06
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 South Essex Road, Wilmington, IL 60481

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: CV (Chemical Volume and Control) (Class 2)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Support 2CV38024G	Not Recorded	Unknown	Not Applicable	2CV38024G	Not Recorded	Removed	No
E7018 3/32" Diameter Weld Electrode	ESAB	Heat M902234 Lot 2H012D04 Control NNN024	Not Applicable	Cat ID 8491-1 UTC 2870136	2010	Installed	No
Angle Bar 2" X 2" X 1/4" A-36	SDI Roanoke Bar Division	Heat JH4541	Not Applicable	Cat ID 514025-1 UTC 2882044	2010	Installed	No

7. Description of Work: Removed existing angle (Item 6 on Drawing M-2CV38024G) to support replacement of Valve 2CV8409/Line 2CV02G-2". New piece of angle iron was welded into place to restore component support back to original configuration.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Applicable material documentation for welding electrode was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 7/20, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 2/21/2011 to 7/20/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7-21-, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 7/20/2011
 Sheet 1 of 1

Unit: 2

Work Order #01405325-08
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 South Essex Road, Wilmington, IL 60481

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Chemical Volume and Control (CV) (Class 2)

- 5 (a) Applicable Construction Code: Valve: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Cases
 Pipe: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Valve 2CV8409 / Line 2CV02G-2"	Not Recorded	Not Recorded	Not Applicable	Valve 2CV8409 / Line 2CV02G-2"	Not Recorded	Corrected/Removed	Yes (Valve)
2" 1500# Class Globe Valve	Flowserve Corporation	Serial Number 22BRU	Not Applicable	Cat ID 30706-1 UTC 2884290	2011	Installed	Yes
2" Schedule 40 Seamless Pipe	Sandvik Materials Technology	Heat 507498 WO 517390	Not Applicable	Cat ID 26883-1 UTC 2745358	2006	Installed	No
1/8" Diameter ER308/308L Welding Rod	Arcos Industries, LLC	Lot DF8147	Not Applicable	Cat ID 8513-1 UTC 2702659	2004	Installed	No
1/8" Diameter ER308/308L Welding Rod	Arcos Industries, LLC	Lot D9077 Heat 249076	Not Applicable	Cat ID 8513-1 UTC 2844829	2009	Installed	No
3/32" Diameter ER308/308L Welding Rod	Arcos Industries, LLC	Lot CT9218 Heat 739540	Not Applicable	Cat ID 8497-1 UTC 2870439	2010	Installed	No

7. Description of Work: Removed and replaced existing valve and adjacent piping, through-wall leak was noted at valve-to-pipe socket weld (reference IR 1167334). Flawed weld was captured and sent out for root cause analysis. All welds were examined by the liquid penetrant method and were found acceptable.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☒ Pressure 351 psig Test Temp. 94 °F

9. Remarks: VT-2 examination was performed and acceptable on 5/11/2011. Applicable documentation for replacement valve (Form NPV-1), pipe, and welding filler material was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casper ISI Coordinator Date 7/20, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 2/21/2011 to 7/20/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

I. Huan Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7-21, 20 11

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Manufactured and certified by Flowserve Corporation, 1900 South Saunders St. Raleigh, NC 27603
(name and address of N Certificate Holder)
2. Manufactured for Exelon Business Services, An Exelon Company P.O. Box 805388 Chicago, IL 60680-5388
(name and address of Purchaser)
3. Location of installation Braidwood Station East of IL 53 1-1/2 miles South of RT 113 Braidwood, IL 60408
(name and address)
4. Model No., Series No., or Type 1500-GLOBE VALVE Drawing 72590565 Rev. J CRN N/A
5. ASME Code, Section III, Division 1: 1971 WINTER 1972 2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Pump or valve Valve Nominal inlet size 2 Outlet size 2
(in.) (in.)
7. Material:
(a) valve Body SA182-F316 Bonnet SA479-316 Disk SA479-316 Bolting N/A
(b) pump Casing _____ Cover _____ Bolting _____

[illegible]

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

168181

FORM NPV-1 (Back — Pg. 2 of ²)Certificate Holder's Serial No. 22BRU

8. Design conditions 2580 (pressure) psi 650 (temperature) °F or valve pressure class 1500
9. Cold working pressure 3600 psi at 100°F
10. Hydrostatic test 5400 psi. Disk differential test pressure 4000 psi
11. Remarks: S.O. 61289

YOKE - MATERIAL SA105 ; HEAT NO.: L0785-1 S/N: 1

CERTIFICATION OF DESIGN

Design Specification certified by L. Ike Ezekoye P.E. State PA Reg. no. 18379-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-12

Date 4/4/11 Name Flowserve Corporation Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSB CT

4/4/11 of Hartford, CT have inspected the pump, or valve, described in this Data Report on _____, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4/4/11 Signed [Signature] Commissions NB13170A21 NC1549
(Authorized Nuclear Inspector) [Nat'l. Bd. (Incl. endorsements) and state or prov. and no.]

3

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 3/22/2010
 Sheet 1 of 1

Unit: 2

Work Order #01115699-01
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Containment Spray (CS) (Class 2)

5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
¾"-10 Flange Bolting at Containment Spray Educator 2CS01SA	Not Recorded	Not Recorded	Not Applicable	2CS01SA (Connections CS-20-F-2, CS-20-F-3, and CS-20-F-4)	Not Recorded	Removed	No
¾"-10 Heavy Hex Nuts	NOVA / AUGIE Industrial Fasteners LLC	Heat 241436 Lot 50182991	Not Applicable	Cat ID 1394886-1 UTC 2842694	2009	Installed	No
¾"-10 Threaded Rod	NOVA / AUGIE Industrial Fasteners LLC	Heat 243163 Lot 50159824 Trace 0K45	Not Applicable	Cat ID 37094-1 UTC 2823137	2009	Installed	No

7. Description of Work: Bolted connections CS-20-F-2 and CS-20-F-4 were identified as leaking (reference IR 745929). Removed bolting closest to source of leakage at three bolted connections on educator and performed VT-1 examination on 3/3/2010. No wastage was noted, but existing studs were replaced with new material.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Section XI pressure testing is not applicable. Applicable documentation for the replacement threaded rod and heavy hex nuts was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 3/22, 2010
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 5/29/2009 to 3/22/2010, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

L. Hudson Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 3-24, 2010

1. Owner : Exelon Generation Co., LLC
Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station Unit 2
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #01299417-01
Repair Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
Address: 36400 S. Essex Road, Wilmington, IL 60481

Code Symbol Stamp: None
Authorization No.: None
Expiration Date: None

4. Identification of System: Main Feedwater (FW) Class 2 system

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1974 Addenda, Code Cases: 1644 (N71, N249) and 1651
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 Edition with 2003 Addenda
(c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PSA-10 Mechanical Snubber 2FW05011S "B" Snubber	ITT Grinnell	S/N 7036	Not Applicable	2FW05011S "B" Snubber	1980	Replaced	No
PSA-10 Mechanical Snubber	Basic-PSA Inc.	S/N 41260	Not Applicable	Cat ID 27676-1 UTC 2052199	1999	Replacement	No

7. Description of Work: Existing snubber exhibited marginal performance during A2R14 functional testing (reference Issue Report 985759) and was replaced in A2R15. The replacement snubber was functionally tested prior to installation.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure Not Applicable ☒ psig Test Temp. Not Applicable ☒ °F

9. Remarks: VT-3 exam of snubber was performed after reinstallation on 4/25/2011. Applicable snubber documentation was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendon J. Casey ISI Coordinator Date 7/5, 2011
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of IL and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/13/2011 to 7/5/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature _____ Commissions IL1085
National Board, State, Province, and Endorsements

Date 7-6, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

Date 8/1/2011
 Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 2
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #01408014-01
 Repair Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 S. Essex Road, Wilmington, IL 60481

Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Main Steam (MS) (Class 2 System)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, No Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 Edition with 2003 Addenda
 (c) Section XI code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6" Safety Relief Valve Main Spring and Main Disc for Safety Relief Valve 2MS013A	Dresser	Spring: B19 Disc: ADE57	Not Applicable	Valve 2MS013A (Serial Number BR09654)	Unknown (Valve Built in 1979)	Replaced	Yes (Valve)
6" Safety Relief Valve Main Spring	Dresser	163636-3 (AGD97)	Not Applicable	Cat ID 1432297-1 UTC 2883943	2011	Replacement	No
6" Safety Relief Valve Main Disc	Dresser	ADE71	Not Applicable	Cat ID 1387627-1 UTC 2663784	2001	Replacement	No

7. Description of Work: Removed valve was sent to NWS Technologies for set point verification and refurbishment under PO #473892, valve UTC 2714347. NWS Technologies replaced existing main spring and main disc of valve with parts provided by Exelon. Valve was reinstalled back to same position.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Section XI pressure testing was not applicable. Applicable documentation for refurbished valve (NVR-1) and replacement disc (N-2 Certificate Holders' Data Report for Identical Nuclear Parts and Appurtenances) were attached at the time of final review and is on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
 Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 8/1, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 2/21/2011 to 8/1/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-1-, 20 11

FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒ 169055
OF NUCLEAR PRESSURE RELIEF DEVICES

1. Work performed by: **NWS Technologies, LLC** Purchase Order # 473892
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: Exelon Corporation, Braidwood Station
- 3/4. Owner - name, address and identification of nuclear power plant: Exelon Corp. - Braidwood Station
East of IL RT 53, 1-1/2 Miles South of RT 113 Braidwood IL 60408
5. a: Repaired pressure relief device: Main Steam Safety Valve
 b: Name of manufacturer: Consolidated / Dresser
 c: Identifying nos.
- | | | | | | |
|-----------------------|----------------------------|----------------------|--------------------------|-----------------------|----------------------------|
| <u>3707R</u> | <u>BR09654</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>1979</u> |
| <small>(type)</small> | <small>(mfr's S/N)</small> | <small>(NB#)</small> | <small>(service)</small> | <small>(size)</small> | <small>(yr. built)</small> |
- d: Construction Code: ASME / III / 1 1974 n/a n/a 2
(name/section/division) (edition) (addenda) (Code Cases(s)) (Code Class)
6. ASME Code Section XI applicable for inservice inspection: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1974 n/a n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1220 psig
 Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Disassembled, inspected, installed a preoxidized disc, lapped and passivated nozzle seat, replaced spring assembly, cleaned, lubricated, assembled. Certified set-pressure and seat tightness using steam.
12. Remarks: NWS Traveler # 11-150. Replacement disc s/n ADE71, new replacement spring assy s/n AGD97.

CERTIFICATE OF COMPLIANCE

I, Jason C. Gibson certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2012.
 National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2012.

4/23/11 NWS Technologies, LLC J.C.G. Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 23 APRIL 2011 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

4/23/11 Charles F. Toegel Jr. NB # 8462, A, N, I NC# 1073
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348
2. Plant Name: Braidwood Station Unit 2
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407
3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 S. Essex Road, Wilmington, IL 60481

Date 7/28/2011
 Sheet 1 of 1

Work Order #01270008-01
 Repair Organization P.O., Job No., etc

Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Main Steam (MS) (Class 2 System)
- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, No Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 Edition with 2003 Addenda
 (c) Section XI code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6" Safety Relief Valve 2MS013B	Dresser	BR09651	Not Applicable	2MS013B	Unknown	Replaced	Yes (Valve)
6" Safety Relief Valve	Dresser	DA 34740	Not Applicable	Cat ID 1445407-1 UTC 2885034	2010	Replacement	No

7. Description of Work: Existing relief valve was removed valve and sent to NWS Technologies for set point verification and refurbishment, replaced with a tested spare relief valve.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F
9. Remarks: Section XI pressure testing applicable. Applicable documentation for refurbished valve (Form NVR-1) was attached at the time of final review and is on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 7/28, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 3/17/2009 to 7/28/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7-28, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

Date 8/1/2011
 Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 2
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #01408012-01
 Repair Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 S. Essex Road, Wilmington, IL 60481

Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Main Steam (MS) (Class 2 System)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, No Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 Edition with 2003 Addenda
 (c) Section XI code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6" Safety Relief Valve Main Spring and Main Disc for Safety Relief Valve 2MS014A	Dresser	Spring: B18 Disc: AED43	Not Applicable	Valve 2MS014A (Serial Number BR09650)	Unknown (Valve Built in 1979)	Replaced	Yes (Valve)
6" Safety Relief Valve Main Spring	Dresser	163636-4 (AGD98)	Not Applicable	Cat ID 1432297-1 UTC 2883943	2011	Replacement	No
6" Safety Relief Valve Main Disc	Dresser	ADE47	Not Applicable	Cat ID 1387627-1 UTC 2700421	2001	Replacement	No

7. Description of Work: Removed valve was sent to NWS Technologies for set point verification and refurbishment under PO #473892, valve UTC 2714348. NWS Technologies replaced existing main spring and main disc of valve with parts provided by Exelon. Valve was reinstalled back to same position.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Section XI pressure testing was not applicable. Applicable documentation for refurbished valve (NVR-1) and replacement disc (N-2 Certificate Holders' Data Report for Identical Nuclear Parts and Appurtenances) were attached at the time of final review and is on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 8/1, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 2/21/2011 to 8/1/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-1-, 2011

**FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☒
OF NUCLEAR PRESSURE RELIEF DEVICES**

1. Work performed by: **NWS Technologies, LLC** Purchase Order # 473892
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: Exelon Corporation, Braidwood Station 169055
- 3/4. Owner - name, address and identification of nuclear power plant: Exelon Corp. - Braidwood Station
East of IL RT 53, 1-1/2 Miles South of RT 113 Braidwood IL 60408
5. a: Repaired pressure relief device: Main Steam Safety Valve
 b: Name of manufacturer: Consolidated / Dresser
 c: Identifying nos.
- | | | | | | | |
|-----------------------|---|--|--|--|---|---|
| | <u>3707R</u>
<small>(type)</small> | <u>BR09650</u>
<small>(mfr's S/N)</small> | <u>n/a</u>
<small>(NB#)</small> | <u>steam</u>
<small>(service)</small> | <u>6"</u>
<small>(size)</small> | <u>1979</u>
<small>(yr. built)</small> |
| d: Construction Code: | <u>ASME / III / 1</u>
<small>(name/section/division)</small> | <u>1974</u>
<small>(edition)</small> | <u>n/a</u>
<small>(addenda)</small> | <u>n/a</u>
<small>(Code Cases(s))</small> | <u>2</u>
<small>(Code Class)</small> | |
6. ASME Code Section XI applicable for inservice inspection: 2001
(edition) 2003
(addenda) n/a
(Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 2001
(edition) 2003
(addenda) n/a
(Code Case(s))
8. Construction Code used for repairs, replacements: 1974
(edition) n/a
(addenda) n/a
(Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1235 psig
 Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): Disassembled, inspected, installed a preoxidized disc, lapped and passivated nozzle seat, replaced spring assembly, cleaned, lubricated, assembled. Certified set-pressure and seat tightness using steam.
12. Remarks: NWS Traveler # 11-149. Replacement disc s/n ADE47, new replacement spring assy s/n AGD98.

CERTIFICATE OF COMPLIANCE

I, Jason C. Gibson certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2012.
 National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2012.

4/23/11 NWS Technologies, LLC J.C.G. Manager, QA
 Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 23 APRIL 2011 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

4/23/11 Charles F. Toegel Jr. NB # 8462, A, N, I NC# 1073
 Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

Date 8/2/2011
 Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 2
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #01408011-01
 Repair Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 S. Essex Road, Wilmington, IL 60481

Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Main Steam (MS) (Class 2 System)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, No Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 Edition with 2003 Addenda
 (c) Section XI code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6" Safety Relief Valve Valve 2MS014C	Dresser	BR09656	Not Applicable	Valve 2MS014C	Not Recorded	Replaced	Yes
6" Safety Relief Valve	Dresser	DA-34741	Not Applicable	Cat ID 1445405-1 UTC 2869321	2010	Replacement	Yes

7. Description of Work: Removed valve was sent to NWS Technologies for set point verification and refurbishment, replacement valve was refurbished and tested under PO #473371, valve UTC 2869321.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Section XI pressure testing was not applicable. Applicable documentation for refurbished valve (NVR-1) was attached at the time of final review and is on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
 Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 8/2, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 2/21/2011 to 8/2/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 8/3, 2011

FORM NVR-1 REPORT OF REPAIR ☒ REPLACEMENT ☐
OF NUCLEAR PRESSURE RELIEF DEVICES

68560

1. Work performed by: **NWS Technologies, LLC** Purchase Order # 473371
131 Venture Boulevard, Spartanburg, SC 29306
2. Work performed for: Exelon Corporation, Braidwood Station
- 3/4. Owner - name, address and identification of nuclear power plant: Exelon Corp. - Braidwood Station
East of IL RT 53, 1-1/2 Miles South of RT 113 Braidwood IL 60408
5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.
- | | | | | | |
|---|----------------------------|--------------------------|--------------------------------|-----------------------------|----------------------------|
| <u>3707RA-RT25</u> | <u>DA34741</u> | <u>n/a</u> | <u>steam</u> | <u>6"</u> | <u>2010</u> |
| <small>(type)</small> | <small>(mfr's S/N)</small> | <small>(NB#)</small> | <small>(service)</small> | <small>(size)</small> | <small>(yr. built)</small> |
| d: Construction Code: <u>ASME / III / 1</u> | <u>1974</u> | <u>n/a</u> | <u>n/a</u> | <u>2</u> | |
| <small>(name/section/division)</small> | <small>(edition)</small> | <small>(addenda)</small> | <small>(Code Cases(s))</small> | <small>(Code Class)</small> | |
6. ASME Code Section XI applicable for inservice inspection: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
7. ASME Code Section XI used for repairs, replacements: 2001 2003 n/a
(edition) (addenda) (Code Case(s))
8. Construction Code used for repairs, replacements: 1974 n/a n/a
(edition) (addenda) (Code Case(s))
9. Design responsibilities: n/a
10. Opening pressure: 1220 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam
11. Description of work (include name and identifying number of replacement parts): New valve. Disassembled, inspected, lapped and preoxidized disc, lapped and passivated nozzle seat, tested spring rate, cleaned, lubricated, assembled. Certified set-pressure and seat tightness using steam.
12. Remarks: NWS Traveler # 11-128. No parts were replaced.

CERTIFICATE OF COMPLIANCE

I, Jason C. Gibson certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2012.

National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2012.

4/13/11 NWS Technologies, LLC J.C.G. Manager, QA
Date Repair Organization Authorized representative Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 13 APRIL 2011 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

4/13/11 Charles F. Toegel Jr. NB # 8462, A, N, I NC# 1073
Date Inspector's Signature Commissions (NB (incl endorsements), jurisdiction, & no.)

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 6/8/2011
 Sheet 1 of 1

Unit: 2

Work Order #00631306-01
 Repair Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant (RC) (Class 1)

- 5 (a) Applicable Construction Code: Piping: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 Valves: ASME Section III 1974 Edition, Summer 1976 Addenda, Code Case N-141
- (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
- (c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Unit 2 Reactor Head Vent Valves (2RC014A, 2RC014B, 2RC014C and 2RC014D) and associated piping	Unknown	Unknown	Not Applicable	2RC014A through 2RC014D Lines 2RC031DA-1" 2RC031DB-1"	Not Recorded	Removed	Unknown
Solenoid Valve Assemblies	Valcor Engineering Corporation	Assembly Serial Numbers 4 and 5 Valve Serial Numbers 64, 65, 66, and 67	Not Applicable	Cat ID 1397111-1 UTC 2881807	2011	Installed	Yes
3/32" ER308/308L	Arcos Industries, LLC	Heat 739540 Lot CT9218 Control 9218	Not Applicable	Cat ID 8497-1 UTC 2870439	2010	Installed	No

7. Description of Work: Replaced existing reactor head vent manifold valves (which leaked by seats) with new solenoid valve assemblies. Three Class 1 field welds (3-3, 5-1, and 11-1) were performed by Braidwood Mechanical Maintenance. The Class 1 field welds were examined by liquid penetrant method.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Section XI pressure testing is not required per IWA-4540(b)(6), but were examined by VT-2 during the system leakage test on 5/11/2011. Applicable documentation for replacement assemblies (Form NPP-1), solenoid valves (Form NPV-1), and weld filler material was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brandon J. Casey ISI Coordinator Date 6/8, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 3/1/2011 to 6/8/2011. and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

**FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED
NUCLEAR PIPING SUBASSEMBLIES***
As Required by the Provisions of the ASME Code, Section III, Division 1

Valcor#21

Pg. 1 of 2

1. Fabricated and certified by Valcor Engineering Corp., 2 Lawrence Road, Springfield, NJ 07081
(name and address of NPT Certificate Holder)
2. Fabricated for Exelon Nuclear, 4300 Winfield Road, Warrenville, IL 60555
(name and address)
3. Location of installation Braidwood Generating Station, IL
(name and address of Purchaser)
4. Type 218135101 SN: 4 N/A 218135101 N/A 2011
(Cert. Holder's serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)
5. ASME Code, Section III, Division 1: 1974 Summer 75 1 NA
(edition) (addenda date) (class) (Code Case no.)
6. Shop hydrostatic test 5500 psi at 70 °F (if performed)
7. Description of piping Assembly consists of 2 Solenoid Valves PN 214130005 and Nipples (1 of each)
PN V52638-62, PN V52638-63, and PN V52638-64 SA-376 TP. 304
8. Certificate Holders' Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of this report: Solenoid Valve PN 214130005 SN 64 & 65
9. Remarks: _____

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1077 Expires 5/6/2011
Date 1/27/2011 Name Valcor Engineering Corp. Signed [Signature]
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New Jersey and employed by OneBeacon America Insurance Company

of Lynn, MA have inspected the piping subassembly described in this Data Report on January 27, 2011, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date January 27, 2011 Signed [Signature] Commissions NJ632 NY2669
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(7/98)

This form (E00062) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

166206

**FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED
NUCLEAR PIPING SUBASSEMBLIES***

Valcor#22

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Fabricated and certified by Valcor Engineering Corp., 2 Lawrence Road, Springfield, NJ 07081
(name and address of NPT Certificate Holder)
2. Fabricated for Exelon Nuclear, 4300 Winfield Road, Warrenville, IL 60555
(name and address)
3. Location of installation Braidwood Generating Station, IL
(name and address of Purchaser)
4. Type 218135101 SN: 5 N/A 218135101 N/A 2011
(Cert. Holder's serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)
5. ASME Code, Section III, Division 1: 1974 Summer 75 1 NA
(edition) (addenda date) (class) (Code Case no.)
6. Shop hydrostatic test 5500 psi at 70 °F (if performed)
7. Description of piping Assembly consists of 2 Solenoid Valves PN 214130005 and Nipples (1 of each)
PN V52638-62, PN V52638-63, and PN V52638-64 SA-376 TP. 304
8. Certificate Holders' Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of this report: Solenoid Valve PN 214130005 SN 66 & 67
9. Remarks: _____

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1077 Expires 5/6/2011
 Date 1/27/2011 Name Valcor Engineering Corp. Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New Jersey and employed by OneBeacon America Insurance Company

of Lynn, MA have inspected the piping subassembly described in this Data Report on January 27, 2011, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the piping subassembly described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date January 27, 2011 Signed [Signature] Commissions NJB32 NY2669
(Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(7/98)

This form (E00062) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

Date 6/8/2011
 Sheet 1 of 1

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Unit: 2

Work Order #00631306-02
 Repair Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant (RC) (Class 1)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Unit 2 Reactor Head Vent Line Support 2RC99004G	Unknown	Unknown	Not Applicable	2RC99004G Line 2RC031DB-1"	Not Recorded	Removed	No
3/32" E7018 Weld Electrode	ESAB	Heat M902234 Lot 2H012D04 Control NNN024	Not Applicable	Cat ID 8491-1 UTC 2870136	2010	Installed	No

7. Description of Work: Removed and reinstalled existing support pieces in order to assist with replacement of reactor head vent manifold valves.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Applicable documentation for replacement material and weld filler material was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casag ISI Coordinator Date 6/8, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/5/2011 to 6/8/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]

Inspector's Signature

Commissions IL1085

National Board, State, Province, and Endorsements

Date 6/9, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 6/8/2011
 Sheet 1 of 1

Unit: 2

Work Order #00631306-03
 Repair Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant (RC) (Class 1)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Unit 2 Reactor Head Vent Line Support 2RC99008G	Unknown	Unknown	Not Applicable	2RC99008G Line 2RC031DA-1"	Not Recorded	Removed	No
3/32" E7018 Weld Electrode	ESAB	Heat M902234 Lot 2H012D04 Control NNN024	Not Applicable	Cat ID 8491-1 UTC 2870136	2010	Installed	No

7. Description of Work: Removed and reinstalled existing box guide in order to assist with replacement of reactor head vent manifold valves.

8. Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Applicable documentation for replacement material and weld filler material was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/8, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/5/2011 to 6/8/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 6/9, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 6/8/2011
 Sheet 1 of 1

Unit: 2

Work Order #00631306-04
 Repair Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant (RC) (Class 1)

5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Unit 2 Reactor Head Vent U-Bolt Support Tack Welds 2RC99007G	Unknown	Unknown	Not Applicable	2RC99007G Line 2RC031DB-1"	Not Recorded	Removed	No
3/32" E7018 Weld Electrode	ESAB	Heat M902234 Lot 2H012D04 Control NNN024	Not Applicable	Cat ID 8491-1 UTC 2870136	2010	Installed	No

7. Description of Work: Removed and reinstalled existing lock nut tack welds in order to assist with replacement of reactor head vent manifold valves.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Applicable documentation for replacement material and weld filler material was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/8, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/5/2011 to 6/8/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 6/9, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

Date 6/8/2011
 Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 2
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #01299699-01
 Repair Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 S. Essex Road, Wilmington, IL 60481

Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant (RC) Class 1 system

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1974 Addenda, Code Cases: 1644 Revision 7, 1682, 1683, 1685, 1686, 1651, 1728, 1729, 1734, N-180 and N-108
- (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 Edition with 2003 Addenda
- (c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PSA-1/4 Mechanical Snubber 2RC17069S	Not Recorded	S/N 2653	Not Applicable	2RC17069S	1977	Replaced	No
PSA-1/4 Mechanical Snubber	Basic-PSA Inc.	S/N 42825	Not Applicable	Cat ID 27625-1 UTC 2807875	2004	Replacement	No

7. Description of Work: Existing snubber exhibited declining performance during A2R14 functional testing (reference Issue Report 987527) and was replaced in A2R15. The replacement snubber was functionally tested prior to installation.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: VT-3 exam of snubber was performed after reinstallation on 4/23/2011. Applicable snubber documentation was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/8, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of IL and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/13/2011 to 6/8/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 6/9, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 6/7/2011
 Sheet 1 of 1

Unit: 2

Work Order #01281639-02
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Westinghouse Electric Corporation
 Address: P. O. Box 158, Madison, PA 15663

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant/Steam Generator

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2A Steam Generator Tubes	Westinghouse	Unknown	Not Applicable	2RC01BA	Not Recorded	Corrected	No (Tubes)
Plugs in Hot Leg and Cold Leg End of Tubes:	Westinghouse Electric Corporation/ Tooling Specialists, Inc	Heat NX4418HK Lot 11 Serial Numbers	Not Applicable	Cat ID 45903-1 UTC 2884983	Not Recorded	Installed	No
Row 10, Column 50		Hot Leg					
Row 11, Column 50		1X524, 1X532,					
Row 10, Column 51		1X533, 1X534,					
Row 11, Column 51		1X535, 1X536,					
Row 30, Column 84		1X537, 1X538					
Row 31, Column 84		1X539, 1X540,					
Row 30, Column 85		1X541, 1X542					
Row 31, Column 85		Cold Leg					
Row 8, Column 86		1X543, 1X544,					
Row 41, Column 36		1X545, 1X546,					
Row 45, Column 64		1X550, 1X551,					
Row 41, Column 93		1X552, 1X553,					
		1X554, 1X555,					
		1X556, 1X557					

7. Description of Work: Mechanically plugged steam generator tubes in the 2A steam generator based on eddy current test results.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Section XI pressure testing is not applicable. Applicable material documentation for tube plugs was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/7, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/13/2011 to 6/1/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

J. Hulse
 Inspector's Signature

Page 6-28

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 6/8 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 6/7/2011
 Sheet 1 of 1

Unit: 2

Work Order #01283161-02
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Westinghouse Electric Corporation
 Address: P. O. Box 158, Madison, PA 15663

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant/Steam Generator

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2B Steam Generator Tubes	Westinghouse	Unknown	Not Applicable	2RC01BB	Not Recorded	Corrected	No (Tubes)
Plugs in Hot Leg and Cold Leg End of Tubes: Row 6, Column 8 Row 15, Column 7 Row 7, Column 22 Row 32, Column 56 Row 24, Column 68 Row 32, Column 70 Row 29, Column 95	Westinghouse Electric Corporation/ Tooling Specialists, Inc	Heat NX4418HK Lot 11 Serial Numbers 1X517, 1X518, 1X519, 1X520, 1X521, 1X522, 1X523, 1X525 1X526, 1X527 1X528, 1X529, 1X530, 1X531 (Did Not List Which Leg Plug Was Installed)	Not Applicable	Cat ID 45903-1 UTC 2884983	Not Recorded	Installed	No

7. Description of Work: Mechanically plugged steam generator tubes in the 2B steam generator based on eddy current test results.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Section XI pressure testing is not applicable. Applicable material documentation for tube plugs was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/7, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/13/2011 to 6/7/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 6/8, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 6/9/2011
 Sheet 1 of 1

Unit: 2

Work Order #01281304-02
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Westinghouse Electric Corporation
 Address: P. O. Box 158, Madison, PA 15663

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant/Steam Generator

5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2C Steam Generator Tubes	Westinghouse	Unknown	Not Applicable	2RC01BC	Not Recorded	Corrected	No (Tubes)
Plugs in Hot Leg and Cold Leg End of Tubes: Row 43, Column 41 Row 49, Column 65	Westinghouse Electric Corporation/ Tooling Specialists, Inc	Heat NX4418HK Lot 11 Serial Numbers Hot Leg 1X514, 1X516 Cold Leg 1X513, 1X515	Not Applicable	Cat ID 45903-1 UTC 2884983	Not Recorded	Installed	No

7. Description of Work: Mechanically plugged steam generator tubes in the 2C steam generator based on eddy current test results.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Section XI pressure testing is not applicable. Applicable material documentation for tube plugs was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/9, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/14/2011 to 6/9/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 6/10, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 6/1/2011
 Sheet 1 of 1

Unit: 2

Work Order #01282384-02
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Westinghouse Electric Corporation
 Address: P. O. Box 158, Madison, PA 15663

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant/Steam Generator

5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2D Steam Generator Tubes	Westinghouse	Unknown	Not Applicable	2RC01BD	Not Recorded	Corrected	No (Tubes)
Plugs in Hot Leg and Cold Leg End of Tubes: Row 17, Column 72 Row 13, Column 76 Row 7, Column 61 Row 47, Column 75 Row 44, Column 73 Row 43, Column 86 Row 2, Column 35	Westinghouse Electric Corporation/ Tooling Specialists, Inc	Heat NX4418HK Lot 11 Serial Numbers Hot Leg 1X547, 1X548, 1X549, 1X558, 1X559, 1X560, 1X561, 1X562 Cold Leg 1X563, 1X564, 1X565, 1X566, 1X567, 1X568, 1X578, 1X579, 1T986, 1T987	Not Applicable	Cat ID 45903-1 UTC 2884983	Not Recorded	Installed	No

7. Description of Work: Mechanically plugged steam generator tubes in the 2D steam generator based on eddy current test results.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Section XI pressure testing is not applicable. Applicable material documentation for tube plugs was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/1, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/13/2011 to 6/1/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 6/1, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date: 6/1/2011
 Sheet 1 of 1

Unit: 2

Work Order #01340784-01
 Repair Organization P.O., Job No., etc

3. Work Performed By: Westinghouse Electric Corporation
 Address: P. O. Box 158, Madison, PA 15663

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant/Steam Generator (RC)

5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2B Steam Generator Secondary Side Inspection Covers	Westinghouse	Not Recorded	Not Applicable	2RC01BB Covers 8A through 8D, 9A and 9B	Not Recorded	Removed	No
Inspection Cover 8A 8B 8C 8D	Westinghouse Electric Corporation/ Consolidated Power Supply	Serial Number: 00107-10 00107-12 00107-09 00107-06	Not Applicable	Cat ID 40458-1 UTC 2874216-1 UTC 2874218-1 UTC 2874215-1 UTC 2874212-1	2010	Installed	No
Handhole Covers 9A 9C	Westinghouse Electric Corporation/ Consolidated Power Supply	Serial Number: 00107-04 00107-01	Not Applicable	Cat ID 34908-1 UTC 2874210 UTC 2874207	2010	Installed	No

7. Description of Work: Replaced existing covers on steam generator secondary side inspection covers/handhole covers due to degraded gasket surfaces which were being trended (reference IRs 769951 and 985628). There was no active leakage identified at any of these locations.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☒ Pressure Nominal psig Test Temp. Nominal °F

9. Remarks: Section XI VT-2 examination was performed and acceptable during the ascending Mode 3 walk down on 5/11/2011. There is no specific plant instrumentation for obtaining system pressure and temperature, inspection was performed with reactor coolant at 2235.6 psig at 545.43° after four hour hold time (reference WO# 1290953). Applicable documentation for replacement inspection covers was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/1, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/13/2011 to 6/1/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 6/3, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348
 Date: 5/18/2011
 Sheet 1 of 1
2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 61407
 Unit: 2
 Work Order #01340786-01
 Repair Organization P.O., Job No., etc
3. Work Performed By: Westinghouse Electric Corporation
 Address: P. O. Box 158, Madison, PA 15663
 Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None
4. Identification of System: Reactor Coolant/Steam Generator (RC)
5. (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None
6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2C Steam Generator Secondary Side Inspection Covers	Westinghouse	Not Recorded	Not Applicable	2RC01BC Covers 8A, 8B, 8D, and 9A	Not Recorded	Removed	No
Inspection Covers 8A 8B 8D	Westinghouse Electric Corporation/Consolidated Power Supply	Serial Number: 00107-08 00107-07 00107-13	Not Applicable	Cat ID 40458-1 UTC 2874214-1 UTC 2874213-1 UTC 2874219-1	2010	Installed	No
Handhole Cover 9A	Westinghouse Electric Corporation/Consolidated Power Supply	Serial Number: 00107-03	Not Applicable	Cat ID 34908-1 UTC 2874209	2010	Installed	No

7. Description of Work: Replaced existing covers on steam generator secondary side inspection covers/handhole covers due to degraded gasket surfaces which were being trended (reference A2R14 Issue Report 980839). There was no active leakage identified at any of these locations. Due to tight clearance/contact between covers, excess material was trimmed from new covers for 8A and 8B per Westinghouse guidance (LTR-SGDA-11-136, dated April 26, 2011) approved through ECR 400039.
approved B4C 5/20/2011
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☒ Pressure Nominal psig Test Temp. Nominal °F
9. Remarks: Section XI VT-2 examination was performed and acceptable during the ascending Mode 3 walk down on 5/10/2011. There is no specific plant instrumentation for obtaining system pressure and temperature, inspection was performed with reactor coolant at 2235.6 psig at 545.43° after four hour hold time (reference WO# 1290953). Applicable documentation for replacement inspection covers was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 5/19, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 4/27/2011 to 5/18/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348
2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date: 6/1/2011
 Sheet 1 of 1

Unit: 2

Work Order #01340787-01
 Repair Organization P.O., Job No., etc

3. Work Performed By: Westinghouse Electric Corporation
 Address: P. O. Box 158, Madison, PA 15663

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Reactor Coolant/Steam Generator (RC)

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2D Steam Generator Secondary Side Inspection Covers	Westinghouse	Not Recorded	Not Applicable	2RC01BD Covers 8D, 9A and 9C	Not Recorded	Removed	No
Inspection Cover 8D	Westinghouse Electric Corporation/ Consolidated Power Supply	Serial Number: 00107-11	Not Applicable	Cat ID 40458-1 UTC 2874217-1	2010	Installed	No
Handhole Covers 9A 9C	Westinghouse Electric Corporation/ Consolidated Power Supply	Serial Number: 00107-02 00107-05	Not Applicable	Cat ID 34908-1 UTC 2874208 UTC 2874211	2010	Installed	No

7. Description of Work: Replaced existing covers on steam generator secondary side inspection covers/handhole covers due to degraded gasket surfaces which were being trended (reference IR 985639). There was no active leakage identified at any of these locations.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☒ Pressure Nominal psig Test Temp. Nominal °F
9. Remarks: Section XI VT-2 examination was performed and acceptable during the ascending Mode 3 walk down on 5/11/2011. There is no specific plant instrumentation for obtaining system pressure and temperature, inspection was performed with reactor coolant at 2235.6 psig at 545.43° after four hour hold time (reference WO# 1290953). Applicable documentation for replacement inspection covers was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/2, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/6/2011 to 6/1/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]

Inspector's Signature

Commissions IL1085

National Board, State, Province, and Endorsements

Date 6/3, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date: 8/1/2011
 Sheet 1 of 1

Unit: 2

Work Order #01178448-02
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 South Essex Road, Wilmington, IL 60481

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Residual Heat Removal (RH) (Class 2)

5. (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Main Pump Flange Heavy Hex Nut (2"-8)	Unknown	Unknown	Not Applicable	2RH01PA	Not Recorded	Removed	Yes (Pump)
2RH01PA Pump Seal (including gland plate)	Unknown	Unknown	Not Applicable	2RH01PA	Not Recorded	Removed	No
Heavy Hex Nut (2"-8)	Ingersoll-Dresser	Serial Number 93P-10564	880	Cat ID 39080-1 UTC 2037737 A93-01336	1993	Installed	Yes (Form N-2)
2RH01PA Pump Seal (Gland Plate) included with replacement seal	Flowserve	Heat 247046 (Gland Plate) Seal 09-003289	Not Applicable	Cat ID 42201-1 UTC 2838057	2009	Installed	No

7. Description of Work: During overhaul of pump one main flange hex nut was replaced. There was no reason for replacement documented in work package.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 24 (Suction)/174 (Discharge) psig Test Temp. 93/84 °F

9. Remarks: Section XI pressure testing was acceptable on 5/6/2011 (WO# 1259540). Applicable documentation for replacement hex nut (Form N-2) and pump seal was attached at the time of final review and is maintained on file. Reference IR 01246535 for documentation errors in receipt inspection package.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 8/1, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/18/2011 to 8/1/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 8-2, 20 11

NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III

Not to Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Ingersoll-Dresser Pump Company, Engineered Pump Group *
(name and address of NPT Certificate Holder)
2. Manufactured for Commonwealth Edison Company, Braidwood, IL 60408
(name and address of Purchaser)
3. Location of installation Braidwood Station No. 20, Braidwood, IL
ASME SA 194
(name and address)
4. Type: 46A4X18 Grade 6 N/A N/A 1993
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 Summer 1972 2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) _____ Revision _____ Date _____
(no.)
7. Remarks: * (942 Memorial Parkway, Phillipsburg, NJ 08865) 2.00" Hex Nuts for
8X20WDF Pump, Vitco trace code: EAF, MR 49306-1A, Heat 32635
(Non-we
8. Norm. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 93P-10564	880
(2) 93P-10565	881
(3) _____	
(4) _____	
(5) _____	
(6) _____	
(7) _____	
(8) _____	
(9) _____	
(10) _____	
(11) _____	
(12) _____	
(13) _____	
(14) _____	
(15) _____	
(16) _____	
(17) _____	
(18) _____	
(19) _____	
(20) _____	
(21) _____	
(22) _____	
(23) _____	
(24) _____	
(25) _____	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26) _____	
(27) _____	
(28) _____	
(29) _____	
(30) _____	
(31) _____	
(32) _____	
(33) _____	
(34) _____	
(35) _____	
(36) _____	
(37) _____	
(38) _____	
(39) _____	
(40) _____	
(41) _____	
(42) _____	
(43) _____	
(44) _____	
(45) _____	
(46) _____	
(47) _____	
(48) _____	
(49) _____	
(50) _____	

10. Design pressure 600 psi. Temp. 400 °F. Hydro. test pressure N/A at ter
(when applicable)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 2 and 3 on this Data is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CERTIFICATION OF DESIGN

Design specifications certified by Albert John Wettlaufer P.E. State PA Reg. no. 1333
(when applicable)
Design report* certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Nuts
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1867 Expires September 27, 1995
Ingersoll-Dresser Pump Company
Date 8/18/93 Name Engineered Pump Group Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Prov
PA and employed by H.S.B.I. & I. Co.
of Hartford, CT have inspected these items described in this Data Report on 8/18/93, and state tha
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code,
III, Division 1. Each part listed has been authorized for stamping on the date shown above.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment de
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property da
loss of any kind arising from or connected with this inspection.

Date 8/18/93 Signed [Signature] Commissions NB 9364 N.I.A. PA
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov)

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

Date 7/20/2011
 Sheet 1 of 1

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Unit: 2

Work Order #01359794-01

Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance
 Address: 35100 South Route 53, Braceville, IL 60407

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Residual Heat Removal (RH) (Class 2)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, No Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2RH02AB (2B RHR Heat Exchanger) Cover Bolting	Joseph Oats (HX)	Unknown	Not Applicable	2RH02AB	Not Recorded	Removed	Yes
1 1/8"-8 Heavy Hex Nuts	NOVA Machine Products	Heat 13616 Lot C040082008 Trace TRS	Not Applicable	Cat ID 37040-1 UTC 2678422	2003	Installed	No
1 1/8"-8 Threaded Rod	NOVA Machine Products	Heat 59761 Lot 50191408 Trace 3U41	Not Applicable	Cat ID 37102-1 UTC 2849029	2009	Installed	No

7. Description of Work: Evidence of leakage was noted during walk down (reference IR 1095831), existing bolt and hex nuts were removed to perform VT exam (no degradation noted). Existing material was replaced for ALARA purposes.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Section XI pressure testing is not applicable. Applicable documentation for replacement bolting materials was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 7/20, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 11/12/2010 to 7/20/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

J. Hudson
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 7-21, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 6/8/2011
 Sheet 1 of 1

Unit: 2

Work Order #01302365-01
 Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 South Essex Road, Wilmington, IL 60481

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Residual Heat Removal (RH) (Class 2)

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
2RH8734A Valve Disk	Kerotest	Not Recorded	Not Applicable	2RH8734A	Not Recorded	Removed	Yes (Valve)
Disk from Spare Valve Assembly (2" 1500# Class Y-Globe Valve)	Flowserve	Valve Serial Number: 92BRU Disk Serial Number: 33618-5-2	Not Applicable	Cat ID 1969-1 UTC 2884282	2011	Installed	Yes (Valve)

7. Description of Work: During corrective maintenance on valve, replaced existing valve disk with a new disk obtained from an available spare valve assembly.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Section XI pressure testing was not applicable. Applicable documentation for replacement yoke (Form NPV-1 for valve) was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/8, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 12/17/2010 to 6/8/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions IL1085
 Inspector's Signature National Board, State, Province, and Endorsements

Date 6/8, 20 11

168179

FORM NPV-1/(Back — Pg. 2 of ²)Certificate Holder's Serial No. 91BRU THRU 93BRU

8. Design conditions 2580 / 650 / °F or valve pressure class 1500
(pressure) (temperature)

9. Cold working pressure 3600 psi at 100°F

10. Hydrostatic test 5400 psi. Disk differential test pressure 4000 psi

11. Remarks: S.O. 61465

YOKE - MATERIAL SA105 ; HEAT NO.: L1391-1 S/N: 1 THRU 3

CERTIFICATION OF DESIGN

Design Specification certified by L. Ike Ezekoye P.E. State PA Reg. no. 18379-E
 Design Report certified by R.S. FARRELL P.E. State NC Reg. no. 028656

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-1562 Expires 11-26-12
 Date 4/4/11 Name Flowserve Corporation Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NC and employed by HSB CT

4/4/11 of Hartford, CT have inspected the pump, or valve, described in this Data Report on 4/4/11, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4/4/11 Signed [Signature] Commissions NB13170ANI NC1549
(Authorized Nuclear Inspector) [Nat'l. Bd. (incl. endorsements) and state or prov. and no.]

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
Address: 300 Exelon Way, Kennett Square, PA 19348

Plant Name: Braidwood Station
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 5/17/2011
Sheet 1 of 1

Unit: 2

Work Order #01432228-01
Repair Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
Address: 36400 South Essex Road, Wilmington, IL 60481

Type Code Symbol Stamp: None
Authorization No.: None
Expiration Date: None

4. Identification of System: Reactor Coolant/Pressurizer (RY) (Class 1)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1974 Addenda, Code Cases 1644, N71, and N249
(b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
(c) Section XI Code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Pivot Pin for PSA-10 Mechanical Snubber 2RY05010S	Unknown	Unknown	Not Applicable	2RY05010S (Snubber Serial Number 2537)	Unknown	Removed	No
Pivot Pin for PSA-10 Mechanical Snubber	Anvil International, Inc.	Serial Number G7420-2	Not Applicable	Cat ID 42019-1 UTC 2700549	2004	Installed	No

7. Description of Work: Replaced existing mechanical pivot pin, (was damaged and difficult to remove) during removal of existing PSA-10 mechanical snubber for functional testing. Post installation VT-3 examination was completed and satisfactory on 4/25/2011.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Applicable material documentation for replacement mechanical snubber was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 5/17, 2011
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 4/25/2011 to 5/17/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

I. Maclean Commissions IL1085
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-18, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

- | | | |
|----|---|---|
| 1. | Owner : Exelon Generation Co., LLC
Address: 300 Exelon Way, Kennett Square, PA 19348 | Date 7/18/2011
Sheet 1 of 1 |
| 2. | Plant Name: Braidwood Station Unit 2
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407 | <u>Work Order #01430989-01</u>
Repair Organization P.O., Job No., etc |
| 3. | Work Performed By: Shaw / Stone & Webster
Address: 36400 S. Essex Road, Wilmington, IL 60481 | Code Symbol Stamp: None
Authorization No.: None
Expiration Date: None |
| 4. | Identification of System: Steam Generator Blowdown (SD) Class 2 system | |
| 5 | (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1974 Addenda, Code Cases: 1644 (N-71, N-249), 1651
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 Edition with 2003 Addenda
(c) Section XI Code Cases used: None | |
| 6. | Identification of Components Repaired or Replaced and Replacement Components: | |

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PSA-1/4 Mechanical Snubber 2SD11066S	ITT Grinnell	S/N 2598	Not Applicable	2SD11066S	1977	Replaced	No
PSA-1/4 Mechanical Snubber	Basic-PSA Inc.	S/N 42820	Not Applicable	Cat ID 27625-1 UTC 2807874	2004	Replacement	No

7. Description of Work: Existing snubber exhibited marginal performance during A2R15 functional testing (reference Issue Report 1204436) and was replaced in A2R15. The replacement snubber was functionally tested prior to installation.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F
9. Remarks: VT-3 exam of snubber was performed after reinstallation on 10/12/2011. Applicable snubber documentation was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brandon J. Casey ISI Coordinator Date 7/18, 2011
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of IL and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 4/21/2011 to 7/18/2011. and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature

Commissions IL1085
National Board, State, Province, and Endorsements

Date 7/19, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

 Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 5/17/2011
 Sheet 1 of 1

Unit: 2

Work Order #01306936-01
 Repair Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 South Essex Road, Wilmington, IL 60481

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: SI (Safety Injection) (Class 2)

- 5 (a) Applicable Construction Code: Piping: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
Existing Socket Welds on 2" Piping (Lines 2SI79AA-2" and 2SI79PA-2"	Not Recorded	Not Recorded	Not Applicable	Lines 2SI79AA-2" and 2SI79PA-2"	Not Recorded	Removed	No
3/32" Diameter ER 308L Weld Rod	Arcos Industries, LLC	Heat 739540 Lot CT9218 Control 9218	Not Applicable	Cat ID 8497-1 UTC 2870439	2010	Installed	No
1/8" Diameter ER 308/308L	Arcos Industries, LLC	Heat 249076 Lot D-9077 Control 9077	Not Applicable	Cat ID 8513-1 UTC 2844829	2009	Installed	No

7. Description of Work: Removed existing socket welds to support performing borescope inspection looking for foreign material. Reinstalled existing valve and piping and inspected socket welds by liquid penetrant method.

Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☒ Pressure 617 psig Test Temp. Ambient °F

9. Remarks: Section XI pressure testing was performed and acceptable on 5/9/2011, instrument for specific temperature is not available. Applicable material documentation for associated weld filler materials was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.
 Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 5/17, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/14/2011 to 5/17/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 5-17, 2011

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 5/17/2011
 Sheet 1 of 1

Unit: 2

Work Order #01306936-09
 Repair Organization P.O., Job No., etc

3. Work Performed By: Shaw / Stone & Webster
 Address: 36400 South Essex Road, Wilmington, IL 60481

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: SI (Safety Injection) (Class 2)

- 5 (a) Applicable Construction Code: Piping: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
U-Bolt for Support 2SI30A017G on Line 2SI79AA-2"	Not Recorded	Not Recorded	Not Applicable	Line 2SI79AA-2"	Not Recorded	Removed	No
5/8" X 2" U-Bolt (with Hex Nuts)	Bergen-Power	None	Not Applicable	Cat ID 24580-1 UTC 2828870	2009	Installed	No

7. Description of Work: Removed existing u-bolt to assist with removing existing pipe under Task 01 in support of borescope inspection looking for foreign material.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Applicable material documentation for u-bolt was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.
 Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 5/17, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 4/19/2011 to 5/17/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 5-13, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

Date 5/23/2011
 Sheet 1 of 1

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Unit: 2

Work Order #01432505-01

Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance
 Address: 35100 South Route 53, Suite 84, Braceville, IL 60407

Type Code Symbol Stamp: None

Authorization No.: None

Expiration Date: None

4. Identification of System: Safety Injection (SI) (Class 2 Portion)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
7/8"-9 Bolting Material at Flow Element 2FE-0987	Not Recorded	Not Recorded	Not Applicable	2FE-0987	Not Recorded	Removed	No
7/8"-9 Heavy Hex Nuts	NOVA Machine Products/ Nedschroef Corporation	Heat Q2280A Lot 50118737 Trace D315	Not Applicable	Cat ID 30520-1 UTC 2790896	2002	Installed	No
	NOVA Machine Products Chaparral Steel Co.	Heat 1-5126JE Lot 50118854		UTC 2790897	2007		
1"-8 Threaded Rod	NOVA Machine Products/ BowSteel	Heat 7527550 Lot 50118889 Trace 0Z81	Not Applicable	Cat ID 44337-1 UTC 2790905	2002	Installed	No

7. Description of Work: Bolted connection was discovered leaking during Section XI pressure test (reference IR 1206971) which required IWA-5250(a)(2) corrective actions. Existing bolting material was removed and examined by VT-3 method, no corrosion/degradation noted in existing bolts. Existing bolting was replaced with new material.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒

Other ☒ Pressure Not Required psig Test Temp. Not Required °F

9. Remarks: Bolted connection was inspected during the system leakage test on 5/11/2011 and was acceptable. Applicable documentation for replacement bolting material was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 5/23, 20 11
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 2/25/2009 to 5/23/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 5-23, 20 11

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC
 Address: 300 Exelon Way, Kennett Square, PA 19348

Date: 6/6/2011
 Sheet 1 of 1

2. Plant Name: Braidwood Station
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Unit: 2

Work Order #01354741-01

Repair/Replacement Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Type Code Symbol Stamp: None
 Authorization No.: None
 Expiration Date: None

4. Identification of System: Safety Injection (SI) (Class 2)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Cases
 (b) Applicable Edition of Section XI Utilized for Repair/Replacement: 2001 Edition with 2003 Addenda
 (c) Section XI Code Cases used: None

6. Identification of Components:

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected Removed, or Installed	ASME Code Stamped (Yes or No)
5/8" X 1 1/2" U-Bolt for Support 2SIK53013T	Not Recorded	Unknown	Not Applicable	2SIK53013T	Not Recorded	Removed	No
5/8" X 1 1/2" U-Bolt	Anvil	U-Bolt Heat Code B-2000 Hex Nuts Heat Code 43599	Not Applicable	Cat ID 1394240-1 UTC 2736259	2006	Installed	No

7. Description of Work: During maintenance on valve 2SI8919B, u-bolt from adjacent support was replaced. Reason for u-bolt replacement was not specified in work package. Reference Issue Report 1224452 for u-bolt replacement without approved Section XI repair/replacement plan.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
 Other ☐ Pressure Not Applicable psig Test Temp. Not Applicable °F

9. Remarks: Applicable material documentation for replacement u-bolt was attached at the time of final review and is maintained on file.

CERTIFICATE OF COMPLIANCE

I certify that the statements made in the report are correct and this conforms to the requirements of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 6/6, 2011
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Illinois and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 1/27/2011 to 6/6/2011, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]
 Inspector's Signature

Commissions IL1085
 National Board, State, Province, and Endorsements

Date 6/7, 2011