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January 19, 2005  
BW050008

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington. D. C. 20555 - 0001

Braidwood Station, Unit 1  
Facility Operating License Nos. NPF-72  
NRC Docket No. STN 50-456

Subject:      Braidwood Station, Unit 1 Inservice Inspection Summary Report

Enclosed is the post-outage summary report (i.e., the 90 day report) for Inservice Inspection examinations conducted during the Braidwood Station, Unit 1 eleventh refueling outage (A1R11). This report is submitted in accordance with the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, "Rules for the Inservice Inspection of Nuclear Power Plant Components," Article IWA-6200, "Requirements."

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

Sincerely,



Keith J. Polson  
Site Vice President  
Braidwood Station

Enclosure:      Braidwood Station ISI Outage Report for A1R11

cc:      Regional Administrator – NRC Region III  
         NRC Senior Resident Inspector – Braidwood Station (w/o enclosure)  
         Illinois Emergency Management Agency- Division of Nuclear Safety

A047

# **BRAIDWOOD STATION**

## **UNIT 1 IN SERVICE INSPECTION SUMMARY REPORT FOR:**

**Interval 2, Period 2, Outage 3  
A1R11 Outage**

### **STATION ADDRESS:**

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

### **UNIT 1 COMMERCIAL SERVICE DATE:**

**July 29, 1988**

### **OWNER'S ADDRESS:**

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

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## 1.0 INSPECTION INFORMATION

### 1.1 Summary

Second Interval Inservice Inspections (ISI) of ASME Class 1, 2, and 3 components were conducted at Braidwood Station Unit 1 from May 3, 2003 to October 24, 2004, with the majority of these inspections being performed during the Braidwood Station Unit 1 eleventh refueling outage (A1R11). This outage is reflected in the Braidwood ISI schedule by the code 223 (Interval 2, Period 2, Outage 3).

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

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

In addition to the ASME Section XI requirements, certain NRC augmented ISI inspections were required during A1R11. The Braidwood Unit 1 augmented ISI examinations included:

- a) Examination of the Class 1 pressure boundary for leakage at nominal operating pressure, in accordance with NRC Bulletin 88-05.
- b) Bare Metal Visual examination of the Unit 1 pressurizer steam space nozzles in accordance with Braidwood Station response to NRC Bulletin 2004-01.
- c) Visual examination of pressure retaining components above the reactor vessel head in accordance with First Revised NRC Order EA-03-009 section IV.D.
- d) Bare metal visual inspection of all Unit 1 reactor vessel lower head instrument penetrations in accordance with the Braidwood Station response to NRC Bulletin 2003-02.

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

### 1.2 Identification of Examination Requirements

The Second Interval ISI Program contains the Component Selection tables. These tables are presented in a tabular format consistent with the tables found in subsections IWB, IWC, IWD, IWE, IWF, and IWL-2500 of the ASME code. The NDE tables include the corresponding code category, item number, and

component/weld population selection in conformance with examination requirements and intent of Subsection IWA, IWB, IWC, IWD, IWE, IWF, and IWL of Section XI of the ASME Code. Program notes and relief requests and additional information are identified in the basis column.

### **1.3 Exempted Components**

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

### **1.4 ISI Program Implementation**

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

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

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

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

### **1.5 Witness and Verification of Examination**

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

## 2.0 INSERVICE EXAMINATION SUMMARY

The following is a summary of ASME Section XI, Risk Informed ISI, and augmented examinations performed during the Braidwood Station Unit 1 A1R11 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 or Components
Containment Spray (CS)	1
Chemical & Volume Control (CV)	15
Feedwater (FW)	1
Main Steam (MS)	1
Reactor Coolant (RC)	66
Residual Heat Removal (RH)	6
Reactor Coolant (RY)	13
Safety Injection (SI)	16
<b>TOTALS</b>	<b>119</b>

### 2.2 Inservice Component Support Summary

SYSTEM EXAMINED	Number of Component Supports
Reactor Coolant (RC)	2
Residual Heat Removal	5
Reactor Coolant (RY)	7
Safety Injection (SI)	8
Essential Service Water (SX)	3
<b>TOTALS</b>	<b>25</b>

**2.3 Inservice Snubber Summary**

SYSTEM EXAMINED	Number of Snubbers VT-3/4	Number of Snubbers Functionally Tested
Chemical & Volume Control (CV)	4	0
Main Steam (MS)	20	2
Reactor Coolant (RC)	45	7
Residual Heat Removal (RH)	18	3
Reactor Coolant (RY)	24	1
Safety Injection (SI)	73	7
<b>TOTALS</b>	<b>184</b>	<b>20</b>

**2.4 Inservice Pressure Test Summary**

**2.4.1 Pressure Test Test-Block Inspection Summary**

Summary of components contained in this table are those Pressure Test Test-Blocks that were examined for Section XI Inservice Inspection credit. Braidwood has adopted Code Case N-522 as approved for use in Regulatory Guide 1.147 Revision 13 for systems penetrating primary containment. Some of the tests listed below were performed prior to Code Case N-522 being adopted for use at Braidwood.

System	Class	Number of Test Blocks Examined
Fuel Pool Cooling (FC)	2	1
Instrument Air (IA)	2	1
Reactor Building Equipment Drain and Vent (RE)	2	3
Auxiliary Building Floor Drain (RF)	2	1
Diesel Generator Starting Air System (SA)	2	1
Primary Containment Purge (VQ)	2	5
Make-Up Demineralizer (WM)	2	1
Containment Chilled Water (WO)	2	2
Plant Systems Pressurized During Mode 3 (ZZ)	1	1
<b>TOTALS</b>		<b>16</b>

## 2.4.2 Borated Bolting Inservice Inspection Summary

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

SYSTEM EXAMINED	Number of Connections VT-2	Number of Connections VT-1
Chemical & Volume Control (CV)	13	1
Pressurizer (PZR)	1	0
Reactor Coolant (RC)	13	1
Residual Heat Removal	2	0
<b>TOTALS</b>	<b>29</b>	<b>2</b>

## 2.5 Steam Generator Eddy Current Testing Summary

In compliance with TS 5.5.9, "Steam Generator Tube Surveillance Program," and the ASME Code Section XI 1989 Edition, IWB 2500-1, Examination Category B-Q, Item B16.20, Steam Generator eddy current examinations were performed during the A1R11 refueling outage. In addition, the inspections were performed consistent with the Electric Power Research Institute (EPRI) "PWR Steam Generator Examination Guidelines," Revision 6, and Nuclear Energy Institute NEI 97-06, "Steam Generator Program Guidelines," Revision 1.

The following inspections were performed during this outage:

- 100% Full Length Bobbin Coil in SG 1B
- Approximately 22% Bobbin Coil of the hot leg tubing straight sections in SGs 1A, 1C, and 1D
- Approximately 15.5% Bobbin Coil of the cold leg tubing straight sections in SGs 1A, 1C, and 1D
- 25% +Point™ probe inspection of Hot Leg Dents and Dings > 5.0 Volts in bobbin coil signal strength
- Diagnostic +Point™ Inspections based on Bobbin Coil results
- 100% visual inspection of previously installed tube plugs
- 100% visual inspection of newly installed tube plugs

The modes of tube degradation found during A1R11 were fan bar wear, lattice grid wear and foreign object wear.

As a result of the eddy current inspection of the SGs, a total of 5 tubes were removed from service by mechanical tube plugging. The 5 tubes were removed from service due to having wear associated with secondary side foreign objects located at the lattice grid support structures. One tube in SG 1B had tube wear greater than the TS plugging limit of  $\geq 40\%$ . Pursuant to TS 5.5.9.c, "Inspection Results Classification," the 1B SG was classified as inspection category C-2. Scope expansion into the remaining three SGs was not required per TS requirements, but was recommended per the guidance provided in

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A1R11 ISI Outage Report**

the EPRI Guidelines. A scope expansion plan consisting of approximately 22% of the hot leg straight section tubing and 15.5% of the cold leg straight section tubing in each of the remaining three steam generators was developed and implemented in accordance with the guidance provided in the EPRI Guidelines. The inspection results for the 1A, 1C and 1D were classified in accordance with TS 5.5.9.c as inspection category C-1. There were no scanning limitations during the eddy current examinations. The table below provides the total tube plugging history and equivalent plugging levels to-date for the Braidwood Station Unit 1 SGs. Note: The Braidwood Unit 1 steam generators were replaced during the Cycle 7 refueling outage (November 1998). No eddy current examinations were performed during the A1R09 refuel outage.

**Equivalent Tube Plugging Level**

	<b>SG A</b>	<b>SG B</b>	<b>SG C</b>	<b>SG D</b>	<b>Total</b>
<b>Tubes Plugged at Factory</b>	1	2	0	0	3
<b>Tubes Plugged in A1R08</b>	1	0	0	0	1
<b>Tubes Plugged in A1R10</b>	8	10	3	0	21
<b>Tubes Plugged in A1R11</b>	0	2	2	1	5
<b>Total Tubes Plugged</b>	10	14	5	1	30

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

### 3.0 COMPONENT DETAILED EXAMINATION TABLES

#### 3.1 Detailed Inservice Weld/Component Table(s):

The table for this section (Pages 3-4 to 3-14) lists the examinations performed for Section XI Inservice Inspection requirements for welds and components. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

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

#### 3.2 Detailed Inservice Component Support Table:

The table for this section (Pages 3-15 to 3-19) lists the examinations performed for Section XI Inservice Inspection requirements for component supports. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

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

#### 3.3 Detailed Inservice Snubber Table:

The table for this section (Pages 3-20 to 3-33) lists the examinations performed for Section XI Inservice Inspection requirements for snubbers. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

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

**3.4 Detailed Inservice Pressure Test Table(s):**

**3.4.1 System Pressure Tests**

The table for this section (Pages 3-34 to 3-42) lists the examinations performed for Section XI Inservice Inspection requirements for pressure testing. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

**3.4.2 Borated Bolted Connection Inspections**

The table for this section (Pages 3-43 to 3-46) lists the examinations performed for Inservice Inspection pressure testing requirements of borated bolted connections. The general format of how the table is set-up is shown below. A description of the information contained in each column can be found in Section 3.5.

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

**3.5 General Inservice Report Information**

**3.5.1 Report Column Descriptions**

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

- (G) This column summarizes the exams performed during this outage for the associated component.
- (H) This column identifies actual exams performed during this outage for the associated component.
- (I) This column summarizes the results for exams performed during this outage for the associated component.
- (J) This row states inspection comments, when applicable, for the associated component.
- (K) This column specifies the description of the associated component.

### 3.5.2 Report Abbreviations

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

**Section 3.1 Detailed Inservice Inspection Weld / Component Listing**

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**SYSTEM: Containment Spray System (CS)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
<b>Inspection Comments</b>								
R-A	R01.20	1CS-03-49 PIPE - PIPE		NOTE 4 NOTE 7	100 100	SUR VOL-E VOL-E	PT UT-45 UT-60	NRI NRI NRI
PT performed due to weld crown reduction.								

**Section 3.1 Detailed Inservice Inspection Weld / Component Listing**

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**SYSTEM: Chemical & Volume Control System (CV)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
<b>Inspection Comments</b>								
R-A	R01.11	1CV-05-03 PIPE - ELBOW	1CVA3B-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-05-04 ELBOW - PIPE	1CVA3B-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-05-05 PIPE - ELBOW	1CVA3B-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-05-06 ELBOW - PIPE	1CVA3B-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-05-13 PIPE - ELBOW	1CVA3B-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-05-14.01 ELBOW - PIPE	1CVA3B-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-11-06 PIPE - ELBOW	1CVA6AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-11-07 ELBOW - PIPE	1CVA6AA-2"	NOTE 4		VT-2	VT-2	NRI
C-C	C03.20	1CV-19-23 & 24 PIPE - PENETRATION (1AB-113)	1CVA1A-6"	I2R-10 I2R-15	NOTE 4	100	SUR PT	NRI
R-A	R01.11	1RC-36-15 PIPE - ELBOW	1CVA3AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-16 ELBOW - PIPE	1CVA3AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-17 PIPE - ELBOW	1CVA3AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-18 ELBOW - PIPE	1CVA3AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-11 PIPE - ELBOW	1CVA7AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-12 ELBOW - PIPE	1CVA7AA-2"	NOTE 4		VT-2	VT-2	NRI

**Section 3.1 Detailed Inservice Inspection Weld / Component Listing**

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**SYSTEM: Feedwater System (FW)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam . Summary	Actual Exam	Results
Inspection Comments								
R-A	R01.11	1FW-03-10 PIPE - ELBOW	1FW03DB-16"	NOTE 4 NOTE 7	100	VOL-E	UT-45 UT-60	NRI NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A	R01.20	1RC-02-04A THERMOWELL BRANCH CONNECTION - THERMOWELL		NOTE 4		VT-2	VT-2	NRI
R-A	R01.20	1RC-03-21A THERMOWELL BRANCH CONNECTION - THERMOWELL		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-01-03 PIPE - BRANCH CONNECTION		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-01-04 PIPE - BRANCH CONNECTION		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-02-03 ELBOW - PIPE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-02-04 ELBOW - PIPE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-03-03 PIPE - ELBOW		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-03-04 PIPE - ELBOW		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-04-03 ELBOW - PIPE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-04-04 ELBOW - PIPE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-05-03 PIPE - ELBOW		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-05-04 PIPE - ELBOW		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-06-03 VALVE 1RC8038C - PIPE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-29-06-04 VALVE 1RC8038D - PIPE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-31-01 BRANCH CONNECTION - PIPE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-31-02 PIPE - VALVE 1RC8039B		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-31-03 VALVE 1RC8039B - PIPE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-31-04 PIPE - TEE		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-31-05 TEE - 2"x.75" REDUCER		NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-31-06 TEE - PIPE		NOTE 4		VT-2	VT-2	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A	R01.11	1RC-31-07 PIPE - VALVE 1RC8037B	1RC14AB-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-01 BRANCH CONNECTION - PIPE	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-02 PIPE - ELBOW	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-03 ELBOW - PIPE	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-04 PIPE - VALVE 1RC8039A	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-05 VALVE 1RC8039A - PIPE	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-06 PIPE - TEE	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-07 TEE - 2"x.75" REDUCER	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-08 TEE - PIPE	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-09 PIPE - VALVE 1RC8037A	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-20 PIPE - TEE	1RC14AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-36-22 TEE - 2"x1" REDUCER	1RC86AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-01 BRANCH - PIPE	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-02 PIPE - ELBOW	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-03 ELBOW - PIPE	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-04 PIPE - VALVE 1RC8039D	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-05 VALVE 1RC8039D - PIPE	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-06 PIPE - TEE	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-07 TEE - 2"x.75" REDUCER	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-37-08 TEE - PIPE	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI

**Section 3.1 Detailed Inservice Inspection Weld / Component Listing**

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**SYSTEM: Reactor Coolant System (RC)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A	R01.11	1RC-37-09 PIPE - VALVE 1RC8037D	1RC14AD-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-01AA PIPE - BRANCH CONNECTION	1RC16AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-01AB PIPE - BRANCH CONNECTION	1RC16AB-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-02AA ELBOW - PIPE	1RC16AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-02AB ELBOW - PIPE	1RC16AB-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-03AA PIPE - ELBOW	1RC16AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-03AB PIPE - ELBOW	1RC16AB-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-04AA ELBOW - PIPE	1RC16AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-04AB VALVE 1RC8038B - PIPE	1RC16AB-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-05AA PIPE - ELBOW	1RC16AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-41-06AA VALVE 1RC8038A - PIPE	1RC16AA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-01 BRANCH CONNECTION - PIPE	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-02 PIPE - ELBOW	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-03 ELBOW - PIPE	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-04 PIPE - VALVE 1RC8039C	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-05 VALVE 1RC8039C - PIPE	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-06 PIPE - TEE	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-07 TEE - 2"X3/4" REDUCER	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-08 TEE - PIPE	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1RC-42-09 PIPE - VALVE 1RC8037C	1RC14AC-2"	NOTE 4		VT-2	VT-2	NRI

**Section 3.1 Detailed Inservice Inspection Weld / Component Listing**

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**SYSTEM: Reactor Coolant System (RC)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
<b>Inspection Comments</b>								
B-Q B16.20	1SG-05-1RC01BA TUBING STEAM GENERATOR TUBING	1RC01BA				VOL		NRI
See Section 2.5 for specific information on Steam Generator eddy current examinations.								
B-Q B16.20	1SG-06-1RC01BB TUBING STEAM GENERATOR TUBING	1RC01BB				VOL		IND
See Section 2.5 for specific information on Steam Generator eddy current examinations.								
B-Q B16.20	1SG-07-1RC01BC TUBING STEAM GENERATOR TUBING	1RC01BC				VOL		IND.
See Section 2.5 for specific information on Steam Generator eddy current examinations.								
B-Q B16.20	1SG-08-1RC01BD TUBING STEAM GENERATOR TUBING	1RC01BD				VOL		IND.
See Section 2.5 for specific information on Steam Generator eddy current examinations.								
R-A R01.20	1SI-13-35 45 DEG. ELBOW - 45 DEG. ELBOW	1RC29AD-10"		NOTE 4	100	VOL-E	UT-45	NRI
R-A R01.20	1SI-13-36 45 DEG. ELBOW - PIPE	1RC29AD-10"		NOTE 4	100	VOL-E	UT-45	NRI
R-A R01.11	1SI-16-23 PIPE - 3"x1½" REDUCER	1RC30AD-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-17-01 PIPE - 3"x1½" REDUCER	1RC30AB-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-17-02 VALVE 1SI8900B - PIPE	1RC30AB-1.5"		NOTE 4		VT-2	VT-2	NRI
R-A R01.11	1SI-31-02 VALVE 1SI8900A - PIPE	1RC30AA-1.5"		NOTE 4		VT-2	VT-2	NRI

**Section 3.1 Detailed Inservice Inspection Weld / Component Listing**

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**SYSTEM: Residual Heat Removal System (RH)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
<b>Inspection Comments</b>								
R-A R01.20	1RH-04-10 ELBOW - PIPE	1RH01CA-16"		NOTE 4 NOTE 7	100 100	VOL-E SUR	UT-45 PT	NRI NRI
PT performed due to weld crown reduction for UT exam.								
R-A R01.20	1RH-04-15 PIPE - ELBOW	1RH01CA-16"		NOTE 4 NOTE 7	100 100	VOL-E SUR	UT-45 PT	NRI NRI
PT performed due to weld crown reduction for UT exam.								
R-A R01.20	1RH-04-18 PIPE - PIPE	1RH01CA-16"		NOTE 4 NOTE 7	100 100	VOL-E SUR	UT-45 PT	NRI NRI
PT performed due to weld crown reduction for UT exam.								
R-A R01.20	1RH-04-19 ELBOW - PIPE	1RH01CA-16"		NOTE 4 NOTE 7	100 100	VOL-E SUR	UT-45 PT	NRI NRI
PT performed due to weld crown reduction for UT exam.								
R-A R01.20	1RH-04-24 PIPE - ELBOW	1RH01CA-16"		NOTE 4 NOTE 7	100 100	VOL-E SUR	UT-45 PT	NRI NRI
PT performed due to weld crown reduction for UT exam.								
R-A R01.20	1RH-04-50 PIPE - ELBOW	1RH01BA-12"		NOTE 4 NOTE 7	100	VOL-E	UT-45	NRI

Section 3.1 Detailed Inservice Inspection Weld / Component Listing

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SYSTEM: Reactor Coolant System (RY)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A	R01.11	1CV-02-13 VALVE 1CV8377 - PIPE	1RY18A-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-02-16 PIPE - ELBOW	1RY18A-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-02-17 ELBOW - PIPE	1RY18A-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1CV-02-20 PIPE - 2" SOCKOLET	1RY18A-2"	NOTE 4 NOTE 9	100 100	VOL	UT-45 UT-60	NRI NRI
Exam per IEB 88-08.								
B-D	B03.110 B03.120	1PZR-01-N4B PRESSURIZER - SAFETY NOZZLE	1RY01S	NOTE 4	92.66	VOL	UT-0 UT-45 UT-60	NRI NRI NRI
B-D	B03.110 B03.120	1PZR-01-N4C PRESSURIZER - SAFETY NOZZLE	1RY01S	NOTE 4	92.66	VOL	UT-0 UT-45 UT-60	NRI NRI NRI
R-A	R01.15	1PZR-01-SE-02 PZR SAFETY NOZZLE - SAFE END Bare Metal Visual Examination per MRP 2003-039 and Bulletin 2004-11.	1RY03AA-6"	NOTE 4	100	BMV	BMV	NRI
R-A	R01.15	1PZR-01-SE-03 PZR SAFETY NOZZLE - SAFE END Bare Metal Visual Examination per MRP 2003-039 and Bulletin 2004-11.	1RY03AB-6"	NOTE 4	100	BMV	BMV	NRI
R-A	R01.15	1PZR-01-SE-04 PZR SAFETY NOZZLE - SAFE END Bare Metal Visual Examination per MRP 2003-039 and Bulletin 2004-11.	1RY03AC-6"	NOTE 4	100	BMV	BMV	NRI
R-A	R01.15 R01.11	1PZR-01-SE-05 PZR SPRAY NOZZLE - SAFE END Bare Metal Visual Examination per MRP 2003-039 and Bulletin 2004-11.	1RY01B-6"	NOTE 4	100	BMV	BMV	NRI
R-A	R01.15	1PZR-01-SE-06 PZR RELIEF NOZZLE - SAFE END Bare Metal Visual Examination per MRP 2003-039 and Bulletin 2004-11.	1RY02A-6"	NOTE 4	100	BMV	BMV	NRI
R-A	R01.11	1RC-16-14 ELBOW - PIPE Exam per IEB 88-08.	1RY01B-6"	NOTE 4 NOTE 9	100 100	VOL	UT-45 UT-60	NRI NRI
R-A	R01.11	1RC-16-15 PIPE - 2" SOCKOLET Exam per IEB 88-08.	1RY18A-2"	NOTE 4 NOTE 9	100 100	VOL	UT-45 UT-60	NRI NRI
B-G-2	B07.50	1RC-32-B4 FLANGED CONNECTION (12 STUDS)	1RY03BA-6"			VT-1 VT-1	VT-1 VT-1	NRI NRI
B-G-2	B07.50	1RC-32-B5 FLANGED CONNECTION (12 STUDS)	1RY03BB-6"			VT-1 VT-1	VT-1 VT-1	NRI NRI

**Section 3.1 Detailed Inservice Inspection Weld / Component Listing**

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**SYSTEM: Reactor Coolant System (RY)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
<b>Inspection Comments</b>								
B-G-2 B07.50	1RC-32-B6 FLANGED CONNECTION (12 STUDS)	1RY03BC-6"				VT-1 VT-1	VT-1 VT-1	NRI NRI

**Section 3.1 Detailed Inservice Inspection Weld / Component Listing**

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**SYSTEM: Safety Injection System (SI)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Code Coverage	Exam Summary	Actual Exam	Results
Inspection Comments								
R-A	R01.11	1SI-10-25 PIPE - ELBOW	1SI18FC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-10-26.01 ELBOW - PIPE	1SI18FC-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-18-23 VALVE 1SI8810B - PIPE	1SI08JB-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-18-24 PIPE - ELBOW	1SI08JB-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-18-25 ELBOW - PIPE	1SI08JB-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-18-26 PIPE - ELBOW	1SI08JB-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-01 BRANCH CONNECTION - PIPE	1SI08GA-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-06 COUPLING - PIPE	1SI08HA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-07 PIPE - FLANGE	1SI08HA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-08 FLANGE - PIPE	1SI08HA-2"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-14 PIPE - ELBOW	1SI08JA-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-15 ELBOW - PIPE	1SI08JA-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-16 PIPE - VALVE 1SI8810A	1SI08JA-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-17 VALVE 1SI8810A - PIPE	1SI08JA-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.11	1SI-19-18 PIPE - FLANGE	1SI08JA-1.5"	NOTE 4		VT-2	VT-2	NRI
R-A	R01.20	1SI-34-38 PIPE - PIPE	1SI01B-24"	NOTE 4 NOTE 7	100 100	VOL-E SUR	UT-45 PT	NRI NRI

**Section 3.2 Detailed Inservice Inspection Component Support Listing**

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**SYSTEM: Reactor Coolant System (RC)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1CV06001V (1) Variable Spring Can	1RC36A-3"		NOTE 8	VT-3/4	NRI
F-A F01.10	1CV06015R (1) Strut	1RC36A-3"		NOTE 8	VT-3/4	NRI

**Section 3.2 Detailed Inservice Inspection Component Support Listing**  
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**SYSTEM: Residual Heat Removal System (RH)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1RH02006R (1) Strut	1RH01AB-12"		NOTE 8	VT-3/4	NRI
F-A F01.10	1RH02010R (1) Strut	1RH01AB-12"		NOTE 8	VT-2	NRI
F-A F01.10	1RH02053R (1) Strut	1RH01AA-12"		NOTE 8	VT-3/4	NRI
F-A F01.10	1RH02065R Box	1RH01AA-12"		NOTE 8	VT-3/4	NRI
F-A F01.10	1RH02076X (1) Strut	1RH01AA-12"		NOTE 8	VT-2	NRI

**Section 3.2 Detailed Inservice Inspection Component Support Listing**

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**SYSTEM: Reactor Coolant System (RY)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1RY05001V (1) Variable Spring Can	1RY11A-14"		NOTE 8	VT-3/4	NRI
F-A F01.10	1RY05008R U-Bolt (slides)	1RY11A-14"		NOTE 8	VT-3/4	NRI
F-A F01.10	1RY06101C (1) Constant Spring Can	1RY01B-6"		NOTE 8	VT-3/4	NRI
F-A F01.10	1RY06103R (1) Strut	1RY01AB-4"		NOTE 8	VT-3/4	NRI
F-A F01.10	1RY06173X (1) Strut Insulation removed for Section XI Exam.	1RY01B-6"		NOTE 8	VT-3/4	NRI
F-A F01.10	1RY09002X (1) Strut Insulation removed from clamp for Section XI Exam	1RY02B-3"		NOTE 8	VT-2	NRI
F-A F01.10	1RY09003C (1) Constant Spring Can	1RY02B-3"		NOTE 8	VT-3/4	NRI

**Section 3.2 Detailed Inservice Inspection Component Support Listing**  
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**SYSTEM: Safety Injection System (SI)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1SI01001V (1) Variable Spring Can	1SI09BA-10"		NOTE 8	VT-3/4	NRI
F-A F01.10	1SI03037R (1) Strut	1SI09BD-10"		NOTE 8	VT-3/4	NRI
F-A F01.20	1SI08001X (1) Strut	1SI05CB-8"		NOTE 8	VT-3/4	NRI
F-A F01.10	1SI09033V (2) Variable Spring Cans	1SI09BC-10"		NOTE 8	VT-3/4	NRI
F-A F01.10	1SI11026G Box	1SI03DA-2"		NOTE 8	VT-3/4	NRI
F-A F01.10	1SI11028R Box	1SI03DA-2"		NOTE 8	VT-2	NRI
F-A F01.10	1SI11029X Box	1SI03DA-2"		NOTE 8	VT-3/4	NRI
F-A F01.10	1SI11032G Box	1SI03DA-2"		NOTE 8	VT-3/4	NRI

**Section 3.2 Detailed Inservice Inspection Component Support Listing**  
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**SYSTEM: Essential Service Water System (SX)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.20	1SX07100A Anchor, integrally attached to pipe	1SX06DD-10"		NOTE 8	VT-3/4	NRI
F-A F01.20	1SX08093G Box	1SX09CC-10"		NOTE 8	VT-3/4	NRI
F-A F01.20	1SX09041X (1) Strut	1SX09BD-10"		NOTE 8	VT-3/4	NRI

**Section 3.3 Detailed Inservice Inspection Snubber Listing**

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**SYSTEM: Chemical & Volume Control System (CV)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1CV16008S Snubber	1CVA3AB-2*	I2R-14		VT-3/4	NRI
F-A F01.10	1CV16009S Snubber	1CVA7AB-2*	I2R-14		VT-3/4	NRI
F-A F01.10	1CV25009S Snubber	1CVA7AA-2*	I2R-14		VT-3/4	NRI
Insulation removed from clamp for ASME Section XI Exam.						
F-A F01.10	1CV25052S Snubber	1CVA3B-2*	I2R-14		VT-3/4	NRI

**Section 3.3 Detailed Inservice Inspection Snubber Listing  
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**SYSTEM: Main Steam System (MS)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A	F01.20	1MS01074AS Snubber, integrally attached to pipe	1MS07AA-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01074BS Snubber, integrally attached to pipe	1MS07AA-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01079S Snubber, integrally attached to pipe	1MS07AA-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01083AS Snubber, integrally attached to pipe	1MS07AD-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01083BS Snubber, integrally attached to pipe	1MS07AD-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01088S Snubber, integrally attached to pipe	1MS07AD-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01092AS Snubber, integrally attached to pipe	1MS07AB-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01092BS Snubber, integrally attached to pipe	1MS07AB-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01097S Snubber, integrally attached to pipe	1MS07AB-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01101AS Snubber, integrally attached to pipe	1MS07AC-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01101BS Snubber, integrally attached to pipe	1MS07AC-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS01106S Snubber, integrally attached to pipe	1MS07AC-28"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS05007AS Snubber, integrally attached to pipe	1MS01AA-30.25"	I2R-14	VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A	F01.20	1MS05007BS Snubber, integrally attached to pipe	1MS01AA-30.25"	I2R-14	VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A	F01.20	1MS06007AS Snubber, integrally attached to pipe	1MS01AB-32.75"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS06007BS Snubber, integrally attached to pipe	1MS01AB-32.75"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS07006AS Snubber, integrally attached to pipe	1MS01AC-32.75"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS07006BS Snubber, integrally attached to pipe	1MS01AC-32.75"	I2R-14	VT-3/4	NRI
F-A	F01.20	1MS08007AS Snubber, integrally attached to pipe	1MS01AD-30.25"	I2R-14	VT-3/4	NRI

**Section 3.3 Detailed Inservice Inspection Snubber Listing  
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**SYSTEM: Main Steam System (MS)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.20	1MS08007BS Snubber, integrally attached to pipe	1MS01AD-30.25"	I2R-14		VT-3/4	NRI

**Section 3.3 Detailed Inservice Inspection Snubber Listing  
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**SYSTEM: Reactor Coolant System (RC)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1CV15015S Snubber	1RC14AB-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1CV15039AS Snubber	1RC14AB-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1CV15039BS Snubber	1RC14AB-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1CV15111S Snubber	1RC14AB-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1CV24026S Snubber	1RC16AB-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1CV24027S Snubber	1RC16AB-2"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1CV24039S Snubber	1RC16AB-2"	I2R-14		VT-3/4 Functional Functional VT-3/4	NRI NRI NRI NRI
F-A F01.10	1CV25001S Snubber	1RC14AD-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1CV25002S Snubber	1RC14AD-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1CV25034S Snubber	1RC14AD-2"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1CV25051S Snubber	1RC14AD-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC01006S Snubber	1RC21AA-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC01007S Snubber	1RC21AA-8"	I2R-14		VT-3/4	NRI
F-A F01.40	1RC01BA-A Snubber	S.G A	I2R-14		VT-3/4	NRI
F-A F01.40	1RC01BA-B Snubber	S.G A	I2R-14		VT-3/4	NRI
F-A F01.40	1RC01BB-A Snubber	S.G B	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
<i>No seal leakage identified during functional test.</i>						

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.40	1RC01BB-B Snubber	S.G B	I2R-14		VT-3/4 Functional VT-3/4	NRI IND. IND.
<p>Snubber 1RC01BB-B was tested outside of the sample scope. Snubber was tested for Service Life Monitoring due to seal leakage identified at ambient temperatures during A1R10. Reference IR Number 154802. During A1R11, two anomalies were identified during functional testing. The activation / lock up value in tension was slightly below the expected value and during the pressure test the rod wiper extruded from it's position. Both conditions were identified in IR 261013 and evaluated as acceptable as is under Engineering Change 351741. Seal leakage during the pressure test was &lt;1 oz. During a time period of over 20 seconds at full load. Acc. Criteria is less than 6 fluid ounces per minute.</p>						
F-A F01.40	1RC01BC-A Snubber	S.G C	I2R-14		VT-3/4	NRI
F-A F01.40	1RC01BC-B Snubber	S.G C	I2R-14		VT-3/4	NRI
F-A F01.40	1RC01BD-A Snubber	S.G D	I2R-14		VT-3/4	NRI
F-A F01.40	1RC01BD-B Snubber	S.G D	I2R-14		VT-3/4	NRI
F-A F01.10	1RC02006AS Snubber	1RC21AB-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC02006BS Snubber	1RC21AB-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC02007S Snubber	1RC21AB-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC02008S Snubber	1RC21AB-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC03005S Snubber	1RC21AC-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC03006S Snubber	1RC21AC-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC03007S Snubber	1RC21AC-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC03008S Snubber	1RC21AC-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC04005S Snubber	1RC21AD-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC16114S Snubber	1RC22AA-1.5"	I2R-14		VT-3/4	NRI
<p>Insulation removed from clamp for ASME Section XI Exam.</p>						
F-A F01.10	1RC16119S Snubber	1RC22AA-1.5"	I2R-14		VT-3/4	NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing  
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SYSTEM: Reactor Coolant System (RC)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1RC17052S Snubber	1RC22AB-1.5"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC17058S Snubber	1RC22AB-1.5"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC18034AS Snubber	1RC22AC-1.5"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC18034BS Snubber	1RC22AC-1.5"	I2R-14		VT-3/4	NRI
F-A F01.10	1RC19042S Snubber	1RC22AD-1.5"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
Insulation removed from clamp for ASME Section XI Exam						
F-A F01.10	1RC19054S Snubber	1RC22AD-1.5"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY06017S Snubber	1RC24AA-4"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY06057S Snubber	1RC26A-2"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY06091S Snubber	1RC26A-2"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1RY06096S Snubber	1RC24AA-4"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY06153S Snubber	1RC24AB-4"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY06154S Snubber	1RC24AA-4"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY06156S Snubber	1RC24AA-4"	I2R-14		VT-3/4	NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Residual Heat Removal System (RH)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A F01.10	1RH02002S Snubber	1RH01AB-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02003S Snubber	1RH01AB-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02007S Snubber	1RH01AB-12"	I2R-14		VT-3/4	NRI
Insulation removed from clamp for ASME Section XI Exam.						
F-A F01.10	1RH02008S Snubber	1RH01AB-12"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1RH02009S Snubber	1RH01AB-12"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1RH02012S Snubber	1RH01AB-12"	I2R-14		VT-3/4	NRI
Insulation removed for ASME Section XI Examination						
F-A F01.10	1RH02013S Snubber	1RH01AB-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02047S Snubber	1RH01AA-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02052S Snubber	1RH01AA-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02054S Snubber	1RH01AA-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02058S Snubber	1RH01AA-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02059S Snubber	1RH01AA-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02068S Snubber	1RH01AA-12"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1RH02205AS Snubber	1RH01AA-12"	I2R-14		VT-3/4	NRI
F-A F01.10	1RH02205BS Snubber	1RH01AA-12"	I2R-14		VT-3/4	NRI
F-A F01.20	1RH04011S Snubber	1RH03AB-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1RH04012S Snubber	1RH03AB-8"	I2R-14		VT-3/4	NRI

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**SYSTEM: Residual Heat Removal System (RH)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A	F01.20 1RH08015S Snubber	1RH02AB-8"	I2R-14		VT-3/4	NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing

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SYSTEM: Reactor Coolant System (RY)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A	F01.10	1RY06012S Snubber	1RY01AB-4"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06022S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06026S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06027S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06029S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06030S Snubber	1RY01B-6"	I2R-14	VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A	F01.10	1RY06031S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06033S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06034S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06047S Snubber	1RY18A-2"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06059S Snubber	1RY01AA-4"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06080S Snubber	1RY01AA-4"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06082S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06110S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06118S Snubber	1RY01B-6"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06121S Snubber	1RY01AA-4"	I2R-14	VT-3/4	NRI
Insulation removed from clamp for Section XI Exam.						
F-A	F01.10	1RY06124S Snubber	1RY18A-2"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY06126S Snubber	1RY01AB-4"	I2R-14	VT-3/4	NRI
F-A	F01.10	1RY09005S Snubber	1RY02B-3"	I2R-14	VT-3/4	NRI

**Section 3.3 Detailed Inservice Inspection Snubber Listing**

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**SYSTEM: Reactor Coolant System (RY)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1RY09012S Snubber	1RY06A-3"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY09077S Snubber	1RY02B-3"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY09078S Snubber	1RY06A-3"	I2R-14		VT-3/4 VT-3/4	NRI NRI
To be removed/replaced under WO# 571321-18 to support valve maintenance. Snubber stroked to verify snubber functionality.						
F-A F01.10	1RY09100S Snubber	1RY02B-3"	I2R-14		VT-3/4	NRI
F-A F01.10	1RY09101S Snubber	1RY06A-3"	I2R-14		VT-3/4	NRI

**Section 3.3 Detailed Inservice Inspection Snubber Listing  
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**SYSTEM: Safety Injection System (SI)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A	F01.10 1RH02018S Snubber	1SI04D-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02019S Snubber	1SI04D-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02023S Snubber	1SI04D-8"	I2R-14		VT-3/4	NRI
F-A	F01.20 1RH02027S Snubber	1SI04C-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02061S Snubber	1SI04D-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02066S Snubber	1SIA4B-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02067S Snubber	1SI04D-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02069S Snubber	1SI04D-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02078S Snubber	1SIA4B-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02079S Snubber	1SIA4B-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02080S Snubber	1SI04D-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02081S Snubber	1SI04B-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1RH02082S Snubber	1SIA4B-8"	I2R-14		VT-3/4 Functional	NRI NRI
F-A	F01.10 1RH02083S Snubber	1SIA4B-8"	I2R-14		VT-3/4	NRI
F-A	F01.20 1RH02206S Snubber	1SIA4A-8"	I2R-14		VT-3/4	NRI
F-A	F01.10 1SI01002S Snubber	1SI09BA-10"	I2R-14		VT-3/4	NRI
F-A	NA 1SI01003S Snubber	1SI09BA-10"	I2R-14		VT-3/4	NRI
F-A	NA 1SI01004S Snubber	1SI09BA-10"	I2R-14		VT-3/4 Functional	NRI NRI
F-A	NA 1SI01006S Snubber	1SI09BA-10"	I2R-14		VT-3/4	NRI

Section 3.3 Detailed Inservice Inspection Snubber Listing  
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SYSTEM: Safety Injection System (SI)

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
Inspection Comments						
F-A NA	1SI01007S Snubber	1SI09BA-10"	I2R-14		VT-3/4	NRI
F-A NA	1SI01009S Snubber	1SI09BA-10"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1SI01018S Snubber	1SI05DA-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI01020S Snubber	1SI05DA-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI01021S Snubber	1SI05DA-6"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI01025S Snubber	1SI05CA-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI01029S Snubber	1SI05DA-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI01030S Snubber	1SI05DA-6"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI01032S Snubber	1SI09AA-10"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI01034S Snubber	1SI05DA-6"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI01035S Snubber	1SI05CA-8"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.20	1SI02003S Snubber	1SI05CA-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI03003S Snubber	1SI05CA-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI03006S Snubber	1SI05CA-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI03007S Snubber	1SI05CA-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI03009S Snubber	1SI05CA-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03016S Snubber	1SI05DD-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03018S Snubber	1SI05DD-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03020S Snubber	1SI05DD-6"	I2R-14		VT-3/4	NRI

**Section 3.3 Detailed Inservice Inspection Snubber Listing**

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**SYSTEM: Safety Injection System (SI)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.10	1SI03021S Snubber	1SI05DD-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03023S Snubber	1SI09BD-10"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03024S Snubber	1SI09BD-10"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03025S Snubber	1SI09BD-10"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03042S Snubber	1SI05DD-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03046AS Snubber	1SI05DD-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI03046BS Snubber	1SI05DD-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI04003S Snubber	1SI09BB-10"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI04016S Snubber	1SI05DB-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI04017S Snubber	1SI05DB-6"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1SI04019S Snubber	1SI05DB-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI04020S Snubber	1SI05DB-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI04022S Snubber	1SI05DB-6"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI04024S Snubber	1SI05CB-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI04026S Snubber	1SI05CB-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI04030S Snubber	1SI05CB-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI09002S Snubber	1SI05CB-8"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.20	1SI09004S Snubber	1SI05CB-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI09006S Snubber	1SI05CB-8"	I2R-14		VT-3/4	NRI

**Section 3.3 Detailed Inservice Inspection Snubber Listing**

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**SYSTEM: Safety Injection System (SI)**

Section XI Cat. Item	ISI Identifier Description	Line Number / EPN	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>						
F-A F01.20	1SI09009S Snubber	1SI05CB-8"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09013S Snubber	1SI05DC-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09015AS Snubber	1SI05DC-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09015BS Snubber	1SI05DC-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09020S Snubber	1SI09BC-10"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09021S Snubber	1SI09BC-10"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09037S Snubber	1SI05DC-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09038AS Snubber	1SI05DC-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09038BS Snubber	1SI05DC-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI09039S Snubber	1SI05DC-6"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI09043S Snubber	1SI05CB-8"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI16010S Snubber	1SI18DB-4"	I2R-14		VT-3/4 Functional VT-3/4	NRI NRI NRI
F-A F01.10	1SI16029S Snubber	1SI18FC-2"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI18049S Snubber	1SI02BA-6"	I2R-14		VT-3/4	NRI
F-A F01.20	1SI18086S Snubber	1SI02BB-6"	I2R-14		VT-3/4	NRI
F-A F01.10	1SI24012S Snubber	1SI08JA-1.5"	I2R-14		VT-3/4	NRI

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**

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**SYSTEM: Fire Protection System (FP)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 A01FP-000089-M04-02A	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. Verify valve 1FP010 has been opened per BwGP 100-6 prior to performing VT-2 Visual examination of test boundary.	I2R-13			
Examination performed under WO# 00455638-01.					

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**

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**SYSTEM: Instrument Air System (IA)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 A01IA-000004-M04-01A	I2R-05		VT-2	NRI
	C07.70 40 Month 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.	I2R-13			

Examination performed under WO# 00623853-01.

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**

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**SYSTEM: Reactor Bldg. Equipment Drain and Vent System (RE)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 A01RE-000004-M04-01A	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
<i>Examination performed under WO #00455746-01. VT-2 exam complete.</i>					
C-H	C07.30 A01RE-000004-M04-01B	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
<i>Examination performed under WO# 00455746-01. VT-2 exam complete.</i>					
C-H	C07.30 A01RE-000004-M04-01C	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
<i>Examination performed under WO# 00455746-01. VT-2 exam complete.</i>					

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**

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**SYSTEM: Auxiliary Building Floor Drain System (RF)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 A01RF-000004-M04-01A	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
VT-2 exam complete.					

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**  
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**SYSTEM: Diesel Generator Starting Air System (SA)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 A01SA-000001-M04-01A	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. Verify valves 1SA032 and 1SA033 have been opened per BwGP 100-6 prior to performing SNOOP examination on test boundary.	I2R-13		VT-2 VT-2	NRI NRI
VT-2 exam complete					

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**

(Page 6 of 9)

**SYSTEM: Primary Containment Purge System (VQ)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 A01VQ-000004-M04-01A	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
Examination performed under WO# 00457783-01.					
C-H	C07.30 A01VQ-000004-M04-01B	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
Examined under WO# 00457779-01.					
C-H	C07.30 A01VQ-000004-M04-01C	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
Examined under WO# 00457781-01.					
C-H	C07.30 A01VQ-000004-M04-01D	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
Examination performed under WO# 00559082-01.					
C-H	C07.30 A01VQ-000004-M04-01F	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. SNOOP or Ultraprobe piping during performance of Local Leak Rate Test.	I2R-11 I2R-13			
Examined under WO# 00457784-01.					

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**

(Page 7 of 9)

**SYSTEM: Make-Up Demineralizer System (WM)**

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

C-H	C07.30	A01WM-000004-M04-01A	I2R-05		VT-2	NRI
	C07.70	40 Month Period ASME Section XI Pressure Test. Verify valve 1WM190 has been opened to supply WM supply to containment during Mode 6 prior to performing VT-2 Visual Examination of test boundary.	I2R-13			

VT-2 exam complete.

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**  
(Page 8 of 9)

**SYSTEM: Containment Chilled Water System (WO)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 A00WO-000001-M04-01C	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. Verify applicable Train operability prior to performing VT-2 Visual Examination of test boundary.	I2R-13			
VT-2 exam complete					
C-H	C07.30 A00WO-000001-M04-01D	I2R-05		VT-2	NRI
	C07.70 40 Month Period ASME Section XI Pressure Test. Verify applicable Train operability prior to performing VT-2 Visual Examination of test boundary.	I2R-13			
VT-2 exam complete					

**Section 3.4.1 Detailed Inservice Inspection Pressure Test Test-Block Listing**

(Page 9 of 9)

**SYSTEM: Plant Systems Pressurized During Mode 3 (ZZ)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
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Inspection Comments					
B-P	B15.10	A01ZZ-000005-M04-01A	I2R-05	NOTE13	VT-2 IND.
	B15.20	Periodic (each refueling outage) ASME Section XI Pressure Test &	I2R-12	NOTE14	VT-2 IND.
	B15.30	Generic Letter 88-05.	I2R-13	NOTE17	
	B15.50		I2R-30		
	B15.60/70		I2R-31		

The following were noted as Recordable Indications: 1RC014 valves had approximately ten drops per minute of leakage past the seats to the containment atmosphere (Issue Report 266402 initiated). Leakage was evaluated as acceptable and catch container installed under EC 351975. Work Order #528957 initiated to repair valves in A1R12. Both the 1CV01AA-1A (Issue Report 269409) and 1CV01AB-1B (Issue Report 269148) letdown heat exchangers were leaking an approximate cumulative leakage of nine drops per minute through head flanges. Leakage was evaluated by Engineering and acceptable per EC 348754 and 348770. Work Orders # 648341 and 648342 were initiated to repair both during A1R12 outage.

**Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing**

(Page 1 of 4)

**SYSTEM: Chemical & Volume Control System (CV)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 1A-CV-10 F-2-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13			
C-H	C07.10 1CV04AA (C-H)	I2R-12		VT-2	NRI
	C07.20 1CV04AA HX (28 STUDS)	I2R-13			
C-H	C07.10 1CV04AB (C-H)	I2R-12		VT-2	NRI
	C07.20 1CV04AB HX (28 STUDS)	I2R-13			
B-P	B15.50 1CV-06-B1 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGE BOLTING (4 STUDS)	I2R-13			
C-H	C07.30 1CV-10 F-3-2 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (8 STUDS)	I2R-13			
B-P	B15.50 PG-2546C-014 F-2-2 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-022 F-2-3 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-062 F-2-3 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-069 F-1-2 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
C-H	C07.30 PG-2546C-070 F-2-3 (C-H)	I2R-12		VT-2	IND.
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13		VT-1	NRI
				VT-2	NRI
<p>Dry boric acid residue identified on bolting and in connection. Residue cleaned, VT-1 Exam performed on bolting in the assembled condition. No evidence of degradation or wastage identified on bolting. The total area of the shank on all studs were accessible for examination. Post cleaning VT-2 Exam performed. No evidence of leakage, wastage, or degradation identified. Accept as is. Evaluation performed in accordance with ER-AP-331-1002. (Refer to Engineering Change 351904)</p>					
C-H	C07.30 PG-2546C-085 F-2-2 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.50 PG-2546C-091 F-2-3 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.50 PG-2546C-101 F-2-3 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			

**Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing**

(Page 2 of 4)

**SYSTEM: Pressurizer (PZR)**

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

**Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing**

(Page 3 of 4)

**SYSTEM: Reactor Coolant System (RC)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
B-P	B15.50 1RC-19-B3 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.50 1RC-20-B1 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.50 1RC-23-B1 (B-P)	I2R-12		VT-2	NRI
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13			
B-P	B15.50 1RC-27-B1 (B-P)	I2R-12		VT-2	IND.
	B15.51 FLANGED CONNECTION (4 STUDS)	I2R-13		VT-1	NRI
				VT-2	NRI
Evidence of boric acid residue identified in the insulation and on the exterior of the bolting (primarily nuts), not at the gasket connection. Bolting and connection cleaned and examined in the assembled condition using the VT-1 method. Total surface of stud shanks were accessible for examination. No degradation or wastage identified. Post inspection VT-2 exam performed (depressurized). No evidence of leakage identified. Bolted connection is acceptable as is. Evaluated in accordance with ER-AP-331-1002. (Refer To Engineering Change Number 351874)					
B-P	B15.10 1RV-03-STUDS (01 TO 54, B-P)	I2R-13		VT-2	NRI
	B15.11 CLOSURE HEAD STUDS (54 TOTAL)	I2R-31			
B-P	B15.30 1SG-05-SGB-01 (B-P)	I2R-13		VT-2	NRI
	B15.31 PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30 1SG-05-SGB-02 (B-P)	I2R-13		VT-2	NRI
	B15.31 PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30 1SG-06-SGB-01 (B-P)	I2R-13		VT-2	NRI
	B15.31 PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30 1SG-06-SGB-02 (B-P)	I2R-13		VT-2	NRI
	B15.31 PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30 1SG-07-SGB-01 (B-P)	I2R-13		VT-2	NRI
	B15.31 PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30 1SG-07-SGB-02 (B-P)	I2R-13		VT-2	NRI
	B15.31 PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30 1SG-08-SGB-01 (B-P)	I2R-13		VT-2	NRI
	B15.31 PRIMARY MANWAY (20 STUDS)	I2R-31			
B-P	B15.30 1SG-08-SGB-02 (B-P)	I2R-13		VT-2	NRI
	B15.31 PRIMARY MANWAY (20 STUDS)	I2R-31			

**Section 3.4.2 Detailed Inservice Inspection Borated Bolting Listing**  
(Page 4 of 4)

**SYSTEM: Residual Heat Removal System (RH)**

Section XI Cat. Item	ISI Identifier Description	Relief Request	Program Notes	Exam Summary	Results
<b>Inspection Comments</b>					
C-H	C07.30 1A-RH-04 F-1-1 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (24 STUDS)	I2R-13			
C-H	C07.30 1A-RH-04 F-3 (C-H)	I2R-12		VT-2	NRI
	C07.40 FLANGED CONNECTION (12 STUDS)	I2R-13			

## **4.0 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 preservice and inservice examination of Class 1 and Class 2 pressure retaining components and their supports.



FORM NIS-1 (Back)

- 8. Examination Dates: May 3, 2003 to October 24, 2004
- 9. Inspection Period Identification : 2<sup>nd</sup> Period - From July 29, 2001 through July 28, 2005
- 10. Inspection Interval Identification : 2<sup>nd</sup> Interval - From July 29, 2001 through July 28, 2008
- 11. Applicable Edition of Section XI 1989 Edition Addenda No Addenda
- 12. Date/Revision of Inspection Plan: August 20, 2004 / Revision 8
- 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 1/12 20 05 Signed Exelon Nuclear Braidwood Station  
By [Signature] Braidwood Station Engineering Programs 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 5-3-03 to 10-24-04 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.

[Signature] Commissions 8756 1085 IL "NIC"  
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-12- 2005

## **5.0 REPORT OF CONTAINMENT DEGRADATION**

The NRC amended 10CFR 50.55a to incorporate by reference the 1992 Edition with the 1992 Addenda of 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. The following section is included in the Inservice Inspection Summary report required by IWA-6000 of ASME Section XI to meet the reporting conditions specified in 10CFR 50.55a(b)(2)(viii)(A)-(E) and 10CFR 50.55a(b)(2)(ix)(A)-(E).

### **5.1 A1R11 Containment Examinations (IWE)**

The scope of Containment ISI examinations performed during this outage was limited to Category E-G (Pressure Retaining Bolting) VT-1 examinations. There were no indications exceeding the acceptance standards of IWE-3515 noted during these examinations and no subsequent corrective measures were required.

### **5.2 A1R11 Containment Concrete Examinations (IWL)**

There were no containment concrete ISI examinations scheduled this outage.

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

**SUMMARY OF NIS-2 FORMS**

System	ASME Code Classification	
	Code Class 1	Code Class 2
Auxiliary Feedwater (AF)	-	1
Containment Spray (CS)	-	2
Chemical & Volume Control (CV)	1	9
Feedwater (FW)	-	1
Main Steam (MS)	-	5
Reactor Coolant (RC)	1	-
Residual Heat Removal (RH)	-	2
Reactor Pressurizer (RY)	4	-
Safety Injection (SI)	2*	*
* Repair/Replacement at Class 1 to Class 2 boundary break, counted as Class 1.		
	Code Class MC	Code Class IWL
Primary Containment (PC)	1	1
	<b>Total NIS-2 Forms</b>	<b>30</b>
	<b>Total Pages</b>	<b>30</b>

Associated NIS-2 Forms are attached.

**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 Date 11/5/04  
 Address: 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 1
2. Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  
 Work Order #~~00055541-09~~ <sup>722930-01</sup> B7C 11/8/04  
 Repair Organization P.O., Job No., etc
3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  
 Code Symbol Stamp: None  
 Authorization No.: None  
 Expiration Date: None
4. Identification of System: ~~Main Steam (MS)~~ <sup>Auxiliary Feedwater</sup> (Class 2 System)  
~~(MS)~~ <sup>B7C 11/8/04 (AF)</sup>
- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1974 Addenda, Code Cases 1644, 1651, 1682, 1683, 1685, 1686, 1728, 1729, and 1734  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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-1/2 Mechanical Snubber	ITT Grinnell	12224	Not Applicable	1AF06004S	Not Recorded	Replaced	Yes
PSA-1/2 Mechanical Snubber	ITT Grinnell	8079	Not Applicable	Cat ID 27530-1 UTC #2035346	Not Recorded	Replacement	Yes

7. Description of Work: Replaced existing snubber (passed functional test but exhibited declining trend performance) with tested spare snubber assembly.
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 10/4/04. Applicable Manufacturer's Data Report 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 11/5, 2004  
 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 ASB of CA have inspected the components described in this Owner's Report during the period 8-27-04 to 11-8-04, 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. Hulse  
 Inspector's Signature

Commissions IL 21025  
 National Board, State, Province, and Endorsements

Date 11-8, 2004

**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 10/16/04  
 Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 01  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00744285-01  
 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

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
10" 300# Class Check Valve	TRW	Not Recorded	N/A	1CS008B	Not Recorded	Replaced	Yes
10" 300# Class Check Valve	TRW (nonmetallic seats refurbished by Crane Nuclear)	D2971	N/A	Cat ID 37960-1 UTC 2545469	1977	Replacement	Yes

7. Description of Work: Replaced existing check valve with a refurbished spare assembly. Nonmetallic seats were reconditioned by Crane Nuclear and valve was rebuilt on site under WO#990258540-01.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure N/A psig Test Temp. N/A °F

9. Remarks: Valve is installed on an open ended system, an open flow test per IWC-5222(d) was performed under BwWSR 5.5.8.CS.6 and was acceptable. All associated documentation for the replacement valve (NPV-1 Form) was attached with work package at 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 10/16, 2004  
 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 HSTB CT of CT have inspected the components described in this Owner's Report during the period 10-10-04 to 10-18-04, 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 IL 21085  
 National Board, State, Province, and Endorsements

Date 10-18, 2004

**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 7/12/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #99241386-01  
 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: Containment Spray (CS) Section XI Class 2 System

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Disc Plate for 3" TRW Mission Dual Plate Check Valve	TRW Mission	Not Recorded	Not Applicable	1CS020A	Unknown	Replaced	Yes
Replacement Disc Plates	Crane	Serial Numbers D0287 and D0286	Not Applicable	Cat ID 29245-1 UTC 2618945 and 2618944	2001	Replacement	Yes
Retainer Pins for for 3" TRW Mission Dual Plate Check Valve	TRW Mission	Not Recorded	Not Applicable	1CS020A	Unknown	Replaced	No
Replacement Retainer Pins	Atwood & Morrill, Crane, and C.S. Valve	Heat 448038 Trace L26; Heat 1G4159; Heat BPB	Not Applicable	Cat ID 29370-1 UTC 2051807, 2619515, and 2067086	2000,2001, and 1989	Replacement	No

7. Description of Work: Replaced existing disc plates and retainer pins with new spares after valve failed post maintenance test. Further evaluation determined valve seats were not leaking through and that failure was due to methodology used during post maintenance test. Testing procedure is to be revised to modify testing methodology.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 43.4 psig Test Temp. 80.4 °F

9. Remarks: Applicable Manufacturer's Data Reports Attached at the time of final review and are on file. No leakage observed during VT-2 exam on 7/9/04.

**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 8/9, 2004  
 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 HSTBC of CT have inspected the components described in this Owner's Report during the period 6-22-04 to 8-10-04, 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 IL, 1085  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-10, 2004

**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 10/11/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00743736-01  
 Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

4. Identification of System: Chemical and Volume Control (CV) (Class 1 System)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1974 Addenda, Code Cases 1644, 1651, 1682, 1683, 1685, 1686, 1728, 1729, 1734  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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 Snubber	Pacific Scientific	3843	N/A	1CV24039S	Not Recorded	Replaced	Yes
PSA 1/4 Snubber	Pacific Scientific	21609	N/A	Cat ID 27625-1 UTC 2035416	Not Recorded	Replacement	Yes

7. Description of Work: Replaced existing snubber with functionally tested spare due to downward trending of existing snubber.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure N/A psig Test Temp. N/A °F

Remarks: Replacement snubber was functionally tested on 10/9/2004. As left VT-3 exam was acceptable on 10/9/2004. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 11/4, 2004  
 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 Exelon of PA have inspected the components described in this Owner's Report during the period 10-9-04 to 11-4-04, 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 IL 2 1085  
 National Board, State, Province, and Endorsements

Date 11-4-2004



**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 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 11/5/04  
 Sheet 1 of 1

Work Order #99242297-01  
 Repair Organization P.O., Job No., etc

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

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

5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
ER 316 Weld Rod (3/32" Diameter) for Body-to-Bonnet Seal Weld for Valve 1CV8368B	Arcos Alloys	Lot CF7967	N/A	Cat ID 8500-1 UTC 2658046	2002	Replacement	No

7. Description of Work: Reapplied body-to-bonnet seal weld that was removed to gain access to valve internals for surveillance inspection. Seal weld was examined by liquid penetrant in the finished condition.

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

9. Remarks: Section XI pressure testing is not required for seal weld. A standard visual examination at nominal operating pressure was performed. Applicable Manufacturer's Data Report 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 11/5, 2004  
 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 HSTG of CA have inspected the components described in this Owner's Report during the period 6-10-04 to 11-2-04, 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 IL 1095  
 National Board, State, Province, and Endorsements

Date 11-03, 2004

**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 10/29/04  
Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00617873-01  
Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
ER 316 Weld Rod (3/32" Diameter) for Body-to-Bonnet Seal Weld for Valve 1CV8348	Arcos Alloys	Lot CF7967	N/A	Cat ID 8500-1 UTC 2658046	2002	Replacement	No

7. Description of Work: Reapplied body-to-bonnet seal weld that was removed to gain access to valve internals for surveillance inspection. Seal weld was examined by liquid penetrant in the finished condition.

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

Remarks: Section XI pressure testing is not required for seal weld. A standard visual examination at nominal operating pressure to be performed. Applicable Manufacturer's Data Reports 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. Casup ISI Coordinator Date 10/29, 2004  
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 6-14-04 to 11-3-04, 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. [Signature]  
Inspector's Signature

Commissions IL # 1085  
National Board, State, Province, and Endorsements

Date 11-3, 2004

**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 10/29/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00632234-01  
 Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
ER 316 Weld Rod (3/32" Diameter) for Body-to-Bonnet Seal Weld for Valve 1CV8442	Arcos Alloys	Lot CF7967	N/A	Cat ID 8500-1 UTC 2658046	2002	Replacement	No

7. Description of Work: Reapplied body-to-bonnet seal weld that was removed to gain access to valve internals for surveillance inspection. Seal weld was examined by liquid penetrant in the finished condition.

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

9. Remarks: Section XI pressure testing is not required for seal weld. A standard visual examination at nominal operating pressure was performed. Applicable Manufacturer's Data Report 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 10/29, 2004  
 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 6-10-04 to 11-3-04, 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. [Signature]  
 Inspector's Signature

Commissions IL 1095  
 National Board, State, Province, and Endorsements

Date 11-3, 2004

**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 10/27/04  
Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 1  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00736790-01  
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

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Cases  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No Addenda  
(c) Section XI code Cases used: N-416-2

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)
Valve 1CV8345	Not Recorded	Not Recorded	Not Applicable	1CV8345	Unknown	Replaced	Yes
2" Diameter Y-pattern Globe Valve	Flowserve	Serial Number 92AYB	Not Applicable	Cat ID 30706-1 UTC 2691347 M98-05914	2004	Replacement	Yes
ER308L Weld Rod (3/32" Diameter)	Arcos Alloys	Lot CT6834	Not Applicable	Cat ID 8497-1 UTC 2683906	1996	Replacement	No

7. Description of Work: Replaced existing valve that leaked by with new valve. Welds were accepted by liquid penetrant examination.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 2354 psig Test Temp. 97 °F

9. Remarks: VT-2 examination was performed and accepted on 10/24/2004. Applicable documentation for replacement relief valve 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 10/28, 2004  
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 HSTBCT of CT have inspected the components described in this Owner's Report during the period 10-12-04 to 11-3-04, 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. [Signature]  
Inspector's Signature

Commissions IL 1085  
National Board, State, Province, and Endorsements

Date 11-3, 2004

**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 10/21/04  
 Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 01  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00576627-01  
 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

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Orifice Flange Bolting on Line 1CV16DD-1.5" (1"-8 hex nuts/bolts)	Unknown	Not Recorded	N/A	1FE-0158	Not Recorded	Replaced	No
Hex Nuts (1"-8)	Texas Bolt/TRW Mission	Trace Code EK99	N/A	QR/RIN A89-01669	1980	Replacement	No
Bolts (1"-8)	Nova Machine Products	Heat 803872 Lot 50021525	N/A	Cat ID 17840 UTC 2701471	2003	Replacement	No

7. Description of Work: Replaced existing flange bolting.

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

9. Remarks: Section XI pressure testing is not required for bolting replacement. A standard visual examination for leakage at system nominal operating pressure will be performed. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 10/21, 2004  
 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 HSTBC of CS have inspected the components described in this Owner's Report during the period 4-5-04 to 10-21-04, 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 IL 1025  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 10-21, 2004

**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 10/21/04  
Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 01  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00576009-01  
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

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Orifice Flange Bolting on Line 1CV16DC-1.5" (1"-8 hex nuts/bolts)	Unknown	Not Recorded	N/A	1FE-0159	Not Recorded	Replaced	No
Hex Nuts (1"-8)	Nova Machine Products	Heat 224772 Lot 50006007	N/A	Cat ID 22615 UTC 2694086	2003	Replacement	No
Bolts (1"-8)	Nova Machine Products	Heat 525510-3 Lot 36276018	N/A	Cat ID 17840 RIN/QRI A99-01097	1999	Replacement	No

7. Description of Work: Replaced existing flange bolting.

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

9. Remarks: Section XI pressure testing is not required for bolting replacement. A standard visual examination for leakage at system nominal operating pressure will be performed. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 10/21, 2004  
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 HSDCT of CA have inspected the components described in this Owner's Report during the period 4-5-04 to 10-21-04, 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. Huerfano  
Inspector's Signature

Commissions IL 1085  
National Board, State, Province, and Endorsements

Date 10-21, 2004

**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 10/21/04  
Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 01  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00576623-01  
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

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Summer 1975 Addenda, No Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Orifice Flange Bolting on Line 1CV16DB-1.5" (1'-8 hex nuts/bolts)	Unknown	Not Recorded	N/A	1FE-0160	Not Recorded	Replaced	No
Hex Nuts (1'-8)	Nova Machine Products	Heat 224772 Lot 50006007	N/A	Cat ID 22615 UTC 2694086	2003	Replacement	No
Bolts (1'-8)	Nova Machine Products	Heat 803872 Lot 50021525	N/A	Cat ID 17840 UTC 2701471	2003	Replacement	No

7. Description of Work: Replaced existing flange bolting.

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

9. Remarks: Section XI pressure testing is not required for bolting replacement. A standard visual examination for leakage at system nominal operating pressure will be performed. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 10/21, 2004  
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 ASPECT of CT have inspected the components described in this Owner's Report during the period 4-5-04 to 10-21-04, 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. [Signature]  
Inspector's Signature

Commissions IL # 1085  
National Board, State, Province, and Endorsements

Date 10-21, 2004

**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 Date 7/27/04  
 Address: 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 1
2. Plant Name: Braidwood Station Unit 1 Work Order #00459713-01  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407 Repair Organization P.O., Job No., etc
3. Work Performed By: Braidwood Station Mechanical Maintenance Code Symbol Stamp: None  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407 Authorization No.: None  
 Expiration Date: None
4. Identification of System: Chemical and Volume Control and Boron Regeneration (Class 2 System)
- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
2" X 3" Safety Relief Valve	Anderson Greenwood Crosby	Serial Number N56903-00-0008	Not Applicable	1CV8117	Not Recorded	Replaced	Yes
2" X 3" Safety Relief Valve	Anderson Greenwood Crosby	Serial Number N56903-00-0036	Not Applicable	Cat ID 27689-1 UTC 2670114	2003	Replacement	Yes

7. Description of Work: Removed existing valve to perform IST testing and reinstalled new tested spare valve.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 2235 psig Test Temp. 559 °F
9. Remarks: VT-2 exam performed and accepted during Mode 3 walkdown on 4/30/2003. Applicable Manufacturer's Data Reports were attached at the time of final review and are maintained on file. Issue Report 239701 was initiated to document this Form NIS-2 was not submitted in A1R10 ISI Summary Report as required by IWA-6000.

**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 8/8, 2004  
 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 4-30-03 to 8-9-04, 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. H. [Signature] Commissions IL # 1095  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-9, 2004

**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 1  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 10/20/04  
Sheet 1 of 1

Work Order #99242292-01  
Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Winter 1975 Addenda, No Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Existing Wafer Check Valve Flange Bolting 7/8" -9 (Studs and Hex Nuts)	Unknown	Not Recorded	N/A	1FW036B	Unknown	Replaced	No
Threaded Rod (Studs) 7/8"-9	Nova Machine Products	Heat 226077 Lot 50015842 Trace Code K775	N/A	Cat ID 37096-1 UTC 2699054	2003	Replacement	No
Hex Nuts 7/8"-9	Nova Machine Products	Heat 8994826 Lot 50014024 Trace Code QJR	N/A	Cat ID 37033-1 UTC 2697213	2003	Replacement	No

7. Description of Work: Replaced existing flange bolting during valve disassembly.

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

9. Remarks: Section XI pressure testing is not required for bolting replacement. A standard visual examination at nominal operating pressure was performed. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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. Casug ISI Coordinator Date 10/28, 2004  
Owner or Owner's Designer/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 HSB&T of CA have inspected the components described in this Owner's Report during the period 6-10-04 to 11-3-04, 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. H. H. H.  
Inspector's Signature

Commissions IL # 1085  
National Board, State, Province, and Endorsements

Date 11-3, 2004

**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<br>Address: 300 Exelon Way, Kennett Square, PA 19348  | Date 11/23/04<br>Sheet 1 of 1   |
| 2. Plant Name: Braidwood Station Unit 1<br>Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  | Work Order #00661158-01<br>Repair Organization P.O., Job No., etc           |
| 3. Work Performed By: G. N. Venture<br>Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  | Code Symbol Stamp: None<br>Authorization No.: None<br>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<br>(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No Addenda<br>(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	Dresser	BR09631	Unknown	1MS013C	1977	Replaced	Yes
6" Safety Relief Valve	Dresser	BR09632	Not Applicable	Cat ID 1388645-1 UTC 2699276	1977	Replacement	Yes

7. Description of Work: Removed valve went sent to NWS Technologies for set point verification and refurbishment under Purchase Order #0076943. NWS Technologies replaced existing main disc of the replacement valve with disc (Serial Number ADE40, UTC 2700419) by Exelon.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure,   
 Other  Pressure 1040 psig Test Temp. 547 °F
9. Remarks: The existing relief valve was removed from system and sent off site for refurbishment. Section XI pressure testing was required because the removed relief valve was not reinstalled in the same position. No leakage was observed during VT-2 examination performed on 10/24/2004. Applicable documentation for replacement relief valve 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 11/23, 2004  
 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 HSB-CT of Hartford, Conn have inspected the components described in this Owner's Report during the period AIR10 to AIR11, 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.

Robert W. White Inspector's Signature Commissions III.# 1927  
 National Board, State, Province, and Endorsements  
 Date 11-23-2004

**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 10/24/04  
 Sheet 1 of 1
2. Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  
 Work Order #00661161-01  
 Repair Organization P.O., Job No., etc
3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  
 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 (Valve)/Summer 1975 (Piping), No Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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 and associated inlet flange bolting	Dresser	BR09630	Not Applicable	1MS013A	1977	Replaced	Yes (Valve)
1 3/8"-8 Threaded Rod (Bolts)	Nova	Heat 8992751 Lot 50004256 Heat Code M253	Not Applicable	Cat ID 37106-1 UTC 2691275	2004	Replacement	No
1 3/8"-8 Hex Nuts	Nova	Heat 35305 Lot 40083474 Heat Code J463	Not Applicable	Cat ID 37044-1 UTC 2681469	2003	Replacement	No

7. Description of Work: Removed valve was sent to NWS Technologies for set point verification and refurbishment under PO #0076943. NWS Technologies replaced existing main disc of valve with disc (Serial Number ADE42, UTC 2700420) provided by Exelon. Valve was reinstalled back to same position.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 1040 psig Test Temp. 547 °F
9. Remarks: Section XI pressure testing was <sup>not</sup> required because the removed relief valve was ~~not~~ reinstalled in the same position, but valves were examined by VT-2 as part of periodic pressure testing which is performed by VT-2. No leakage was observed during VT-2 examination. Applicable documentation for replacement relief valve and bolting 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 11/18, 2004  
 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 HSB-CT of Hartford, Conn. have inspected the components described in this Owner's Report during the period AIR10 to AIR11, 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.

Rory W. White Commissions III-#1927  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11-22-2004

**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 Date 10/24/04  
 Address: 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 1
2. Plant Name: Braidwood Station Unit 1 Work Order #00661160-01  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407 Repair Organization P.O., Job No., etc
3. Work Performed By: G. N. Venture Code Symbol Stamp: None  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407 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 (Valve)/Summer 1975 (Piping), No Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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 and associated inlet flange bolting	Dresser	BR09648	Not Applicable	1MS017B	1977	Replaced	Yes (Valve)
1 3/8"-8 Threaded Rod (Bolts)	Nova	Heat 8992751 Lot 50004256 Heat Code M253	Not Applicable	Cat ID 37106-1 UTC 2691275	2004	Replacement	No
1 3/8"-8 Hex Nuts	Nova	Heat 35305 Lot 40083474 Heat Code J463	Not Applicable	Cat ID 37044-1 UTC 2681469	2003	Replacement	No

7. Description of Work: Removed valve was sent to NWS Technologies for set point verification and refurbishment under PO #0076943. NWS Technologies replaced existing main disc of valve with disc (Serial Number ADE47, UTC 2700421) provided by Exelon. Valve was reinstalled back to same position.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 1040 psig Test Temp. 547 °F
9. Remarks: Section XI pressure testing was required because the removed relief valve was <sup>not</sup> reinstalled in the same position, but valves were examined by VT-2 as part of periodic pressure testing which is performed by VT-2. No leakage was observed during VT-2 examination. Applicable documentation for replacement relief valve and bolting 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 11/18, 2004  
 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 HSB-CT of Hartford, Conn have inspected the components described in this Owner's Report during the period 11/10 to 11/11, 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.

Rocky W. White Commissions Ill. # 1927  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11-19-20 04

**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 11/18/04  
 Sheet 1 of 1
2. Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  
 Work Order #00661159-01  
 Repair Organization P.O., Job No., etc
3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  
 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: 1989 Edition with No 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	Dresser	BR09632	Unknown	1MS013B	1977	Replaced	Yes
6" Safety Relief Valve	Dresser	BR09631	Not Applicable	Cat ID 1388645-1 UTC 2699275	1977	Replacement	Yes

7. Description of Work: Removed valve went sent to NWS Technologies for set point verification and refurbishment under Purchase Order #0076943. NWS Technologies replaced existing main disc of the replacement valve with disc (Serial Number ADE52, UTC 2700422) by Exelon.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 1040 psig Test Temp. 547 °F
9. Remarks: The existing relief valve was removed from system and sent off site for refurbishment. Section XI pressure testing was required because the removed relief valve was not reinstalled in the same position. No leakage was observed during VT-2 examination performed on 10/24/2004. Applicable documentation for replacement relief valve 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 11/18, 2004  
 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 HSB-CT of Hartford, Conn have inspected the components described in this Owner's Report during the period AIR10 to AIR11, 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.

Rocky W. White  
 Inspector's Signature  
 Commissions T 11 # 1929  
 National Board, State, Province, and Endorsements  
 Date 11-19, 20 04

**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 11/8/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00655541-03  
 Repair Organization P.O., Job No., etc

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

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, Summer 1974 Addenda, No Code Cases Invoked for Pivot Pin  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Pivot Pin for PSA-35 Mechanical Snubber	Unknown	Unknown	Not Applicable	1MS05007S	Unknown	Replaced	No
Pivot Pin for PSA-35 Mechanical Snubber	Grinnell Corporation	Heat CMC ZA G3153-2	Not Applicable	Cat ID 44060-1 UTC 2043218	1999	Replacement	No

7. Description of Work: Replaced existing pivot pin due to mechanical damage (ends of pin "mushroomed") which would not allow removal of snubber for functional testing.

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. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 11/8, 2004  
 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 HSTBC of CA have inspected the components described in this Owner's Report during the period 9-10-04 to 11-8-04, 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 IL #1085  
 National Board, State, Province, and Endorsements

Date 11-8, 2004

**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 11/4/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00744115-021  
 Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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 1971 Edition, Winter 1972 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Existing 2" NPS Globe Valve Bonnet and Disc	Kerostest	PF5-5	Not Applicable	1RC8040B	Not Recorded	Replaced	Yes
2" NPS Globe Valve Bonnet and Disc	Flowserve (Disc Carpenter, Bonnet Dubose Energy)	Flowserve Valve Serial Number 12AWH Disc: Heat 724770 Bonnet: 16162	Not Applicable	Cat ID 1969-1 UTC 2670443	2003	Replacement	Yes

7. Description of Work: Replaced existing valve bonnet and disc (valve would not isolate) with bonnet and disc from spare valve assembly.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 2247 psig Test Temp. 558 °F

9. Remarks: VT-2 performed during ascending Mode 3 walkdown on 10/23/2004. Applicable Manufacturer's Data Reports 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 11/4, 2004  
 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 HST&C of CA have inspected the components described in this Owner's Report during the period 10-11-04 to 11-11-04, 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 DA 1085  
 National Board, State, Province, and Endorsements

Date 11-11, 2004

**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 Date 6/09/04  
Address: 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 1
2. Plant Name: Braidwood Station Unit 1 Work Order #00551406-01  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407 Repair Organization P.O., Job No., etc
3. Work Performed By: Braidwood Station Mechanical Maintenance Code Symbol Stamp: None  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407 Authorization No.: None  
Expiration Date: None
4. Identification of System: Residual Heat Removal (RH) (Class 2 System)
- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Relief Valve (3" Inlet X 4" outlet)	Crosby	56904-00-0035	Not Applicable	1RH8708A	1977	Replaced	Yes
Relief Valve (3" Inlet X 4" outlet)	Crosby	56904-00-0033	Not Applicable	UTC 2640674	1977	Replacement	Yes

7. Description of Work: Replaced existing relief valve with refurbished spare valve. Valve was refurbished by MMD under WO 436498-01.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 50 psig Test Temp. 98.3 °F
9. Remarks: Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 8/23, 2004  
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 Hobas of CT have inspected the components described in this Owner's Report during the period 5-3-04 to 8-25-04, 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 IL 1085  
National Board, State, Province, and Endorsements

Date 8-25, 2004

**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 Date 8/6/04  
 Address: 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 1
- Plant Name: Braidwood Station Unit 01  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407  
 Work Order #00562563-01  
 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  
 Code Symbol Stamp: None  
 Authorization No.: None  
 Expiration Date: None
4. Identification of System: Residual Heat Removal (RH) (Class 2 System)
5. (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
3" Crosby Relief Valve	Crosby	N56904-00-0049	N/A	1RH8708B	Not Recorded	Replaced	Yes
3" Crosby Relief Valve	Crosby	N56904-00-0035	N/A	Cat ID 27642-1 UTC 2545621	1977	Replacement	Yes

7. Description of Work: Replaced existing relief valve assembly with tested spare refurbished valve assembly. Valve was refurbished under WO#551406-01.
- Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 43 psig Test Temp. 100.6 °F
9. Remarks: VT-2 exam performed and accepted on 7/29/04. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 8/6, 2004  
 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 HSTB CT of CT have inspected the components described in this Owner's Report during the period 6-10-04 to 8-6-04, 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 IL 21025  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 8-6, 2004



**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

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 10/28/04  
 Sheet 1 of 1

Work Order #00601875-01  
 Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

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

5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, Code Case 1649  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Existing 6" Relief Valve and Associated Inlet and Outlet Flange Bolting	Crosby	N56964-00-0032	Not Applicable	1RY8010C	Not Recorded	Replaced	Yes
6" Refurbished Spare Relief Valve	Crosby	N56964-00-0072	Not Applicable	Cat ID 1400663-1 UTC 2701736	1977	Replacement	Yes
1 3/8"-8 Hydranuts	Nova Machine Products	None	Not Applicable	Cat ID 1400115-1 UTC 2701803	2004	Replacement	No
1"-8 Hydranuts	Nova Machine Products	None	Not Applicable	Cat ID 1400120-1 UTC 2701804	2004	Replacement	No
1 3/8" -8 Threaded Rod (Studs)	Nova Machine Products	Heat 978B/Code S222 and Heat 523758 Lot 36256053 Code MUV	Not Applicable	Cat ID 1401771-1 UTC 2702158 and Cat ID 17730-1 UTC 2033632	2004  1999	Replacement	No
1"-8 Threaded Rod (Bolts)	Nova Machine Products	Heat 803872 Lot 50021525	Not Applicable	Cat ID 17840-1 UTC 2701471	2003	Replacement	No

7. Description of Work: Replaced existing relief valve with a spare valve refurbished by NWS Technologies and replaced existing inlet and outlet flange bolting (standard studs and hex nuts) with hydranuts and new studs in accordance with EC 352031. Relief valve set point was lowered from 2485 to 2460 per EC 346617.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 2247 psig Test Temp. 558 °F

9. Remarks: VT-2 examination was performed and accepted on 10/23/2004 (ascending Mode 3 walkdown). Applicable documentation for replacement relief valve and associated bolting material 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. Casary ISI Coordinator Date 11/5, 2004  
 Owner or Owner's Designee, etc

**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 HSCG of CA have inspected the components described in this Owner's Report during the period 7-17-04 to 11-8-04, 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 DA 1085  
 Inspector's Signature National Board, State, Province, and Endorsements

**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 10/28/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00601876-01  
 Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, Code Case 1649  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Existing 6" Relief Valve and Associated Inlet and Outlet Flange Bolting	Crosby	N56964-00-0091	Not Applicable	1RY8010B	Not Recorded	Replaced	Yes
6" Refurbished Spare Relief Valve	Crosby	N56964-00-0073	Not Applicable	Cat ID 1400663-1 UTC 2701737	1977	Replacement	Yes
1 3/8"-8 Hydranuts	Nova Machine Products	None	Not Applicable	Cat ID 1400115-1 UTC 2701803	2004	Replacement	No
1"-8 Hydranuts	Nova Machine Products	None	Not Applicable	Cat ID 1400120-1 UTC 2701804	2004	Replacement	No
1 3/8" -8 Threaded Rod (Studs)	Nova Machine Products	Heat 978B Lot 50022521	Not Applicable	Cat ID 1401771-1 UTC 2702158	2004	Replacement	No
1"-8 Threaded Rod (Bolts)	Nova Machine Products	Heat 803872 Lot 50021525	Not Applicable	Cat ID.17840-1 UTC 2701471	2003	Replacement	No

7. Description of Work: Replaced existing relief valve with a spare valve refurbished by NWS Technologies and replaced existing inlet and outlet flange bolting (standard studs and hex nuts) with hydranuts and new studs in accordance with EC 352031. Relief valve set point was lowered from 2485 to 2460 per EC 346617.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure

Other  Pressure 2247 psig Test Temp. 558 °F

9. Remarks: VT-2 examination was performed and accepted on 10/23/2004 (ascending Mode 3 walkdown). Applicable documentation for replacement relief valve and associated bolting material 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 11/5, 2004  
 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 USAEG of GA have inspected the components described in this Owner's Report during the period 2-13-04 to 11-8-04, 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 IL # 1085  
 National Board, State, Province, and Endorsements

Date 11-8-, 2004

**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 10/28/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00601877-01  
 Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

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

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, Code Case 1649  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No 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)
Existing 6" Relief Valve and Associated Inlet and Outlet Flange Bolting	Crosby	N56964-00-0053	Not Applicable	1RY8010A	Not Recorded	Replaced	Yes
6" Refurbished Spare Relief Valve	Crosby	N56964-00-0071	Not Applicable	Cat ID 1400663-1 UTC 2701734	1977	Replacement	Yes
1 3/8"-8 Hydranuts	Nova Machine Products	None	Not Applicable	Cat ID 1400115-1 UTC 2701803	2004	Replacement	No
1"-8 Hydranuts	Nova Machine Products	None	Not Applicable	Cat ID 1400120-1 UTC 2701804	2004	Replacement	No
1 3/8" -8 Threaded Rod (Studs)	Nova Machine Products	Heat MUV Lot	Not Applicable	Cat ID 17730-1 UTC 2033632	1999	Replacement	No
1"-8 Threaded Rod (Bolts)	Nova Machine Products	Heat 803872 Lot 50021525	Not Applicable	Cat ID 17840-1 UTC 2701471	2004	Replacement	No

7. Description of Work: Replaced existing relief valve with a spare valve refurbished by NWS Technologies and replaced existing inlet and outlet flange bolting (standard studs and hex nuts) with hydranuts and new studs in accordance with EC 352031. Relief valve set point was lowered from 2485 to 2460 per EC 346617.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 2247 psig Test Temp. 558 °F

9. Remarks: VT-2 examination was performed and accepted on 10/23/2004 (ascending Mode 3 walkdown). Applicable documentation for replacement relief valve and associated bolting material 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 11/5, 2004  
 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 HSG of CA have inspected the components described in this Owner's Report during the period 7-17-04 to 11-8-04, 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 IL 1085  
 National Board, State, Province, and Endorsements

Date 11-8, 2004

**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

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 11/10/04  
 Sheet 1 of 1

Work Order #00609950-01  
 Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

4. Identification of System: Safety Injection (SI) (Class 1 and 2 System)

- 5 (a) Applicable Construction Code (Valve/Piping): ASME Section III 1971/1974 Edition, Winter 1972/Summer 1975 Addenda, No Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No Addenda  
 (c) Section XI code Cases used: N-416-2

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)
Existing Valve and associated piping	Not Recorded	Not Recorded	Not Applicable	1S18819B	Unknown	Replaced	Yes (Valve)
Check Valve	Flowserve	E-467P-1-7	Not Applicable	Cat ID 24010-1 UTC 2039527	1999	Replacement	Yes
2" Seamless Pipe	Alb, Inc.	Heat 070037	Not Applicable	Cat ID 32352-1 UTC 2666016	2000	Replacement	No
2" Socketweld Flange	Western Forge & Flange Co.	Heat 31438 LOT 5376 WFF# BVW	Not Applicable	Cat ID 30443-1 UTC 2693708	2004	Replacement	No
ER 308L Weld Rod (1/8" diameter)	Arcos Alloys	Lot DM7971	Not Applicable	Cat ID 8513-1 UTC 2686707	2003	Replacement	No
ER 308L Weld Rod (3/32" diameter)	Arcos Alloys	Lot CT6834	Not Applicable	Cat ID 8497-1 UTC 2683906	1996	Replacement	No
ER 316L Weld Rod (1/16" diameter)	Techalloy Maryland, Inc.	Heat 40560 Lot 386X208	Not Applicable	Cat ID 8498-1 UTC 2684584	1982	Replacement	No

7. Description of Work: Replaced existing check valve (potential leak through seating surfaces) and associated piping per ATI 164897-09. Reapplied seal weld.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 800/2247\* psig Test Temp. 86/558\* °F

9. Remarks: Valve is the boundary between Class 1 and Class 2. (\*) VT-2 examination performed during system injection test on 10/16/2004 to challenge Class 2 portion and during ascending Mode 3 walkdown on 10/23/2004 to challenge Class 1 portion. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 11/11, 2004  
 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 HSE of CA have inspected the components described in this Owner's Report during the period 5-7-04 to 12-3-04, 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 [Signature] Commissions IL # 1085  
 National Board, State, Province, and Endorsements

**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 11/2/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 1  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00609939-01  
 Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

4. Identification of System: Safety Injection (SI) (Class 1 and 2 System)

- 5 (a) Applicable Construction Code (Valve/Piping): ASME Section III 1971/1974 Edition, Winter 1972/Summer 1975 Addenda, No Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No Addenda  
 (c) Section XI code Cases used: N-416-2

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)
Existing Valve and associated piping	Not Recorded	Not Recorded	Not Applicable	1SI8819D	Unknown	Replaced	Yes (Valve)
Check Valve	Flowserve	E-467P-1-9	Not Applicable	Cat ID 24010-1 UTC 2039529	2001	Replacement	Yes
2" Seamless Pipe	Pennsylvania Extruded Tube Co.	Heat 8126J	Not Applicable	Cat ID 32352-1 UTC 2701035	1999	Replacement	No
2" Socketweld Flange	Western Forge & Flange Co.	Heat 24329 Lot 6373 WFF# BYL	Not Applicable	Cat ID 30443-1 UTC 2696519	2004	Replacement	No
ER 308L Weld Rod (1/8" diameter)	Arcos Alloys	Lot DM7971	Not Applicable	Cat ID 8513-1 UTC 2686707	2003	Replacement	No
ER 308L Weld Rod (3/32" diameter)	Arcos Alloys	Lot CT6834	Not Applicable	Cat ID 8497-1 UTC 2683906	1996	Replacement	No
ER 316L Weld Rod (1/16" diameter)	Techalloy Maryland, Inc.	Heat 40560 Lot 386X208	Not Applicable	Cat ID 8498-1 UTC 2684584	1982	Replacement	No

7. Description of Work: Replaced valve (potentially leaking by seats) per ATI 164897-09. Reapplied body-to-bonnet seal weld.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 800/2247 psig Test Temp. 86/558 °F

9. Remarks: Valve is the boundary between Class 1 and Class 2. (\*) VT-2 examination performed during system injection test on 10/16/2004 to challenge Class 2 portion and during ascending Mode 3 walkdown on 10/23/2004 to challenge Class 1 portion. Applicable Manufacturer's Data Reports Attached at the time of final review and are 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 11/11, 2004  
 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 HSTACT of CT have inspected the components described in this Owner's Report during the period 5-17-04 to 11-12-04, 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 II # 1085  
 National Board, State, Province, and Endorsements

**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 9/28/04  
 Sheet 1 of 1

Plant Name: Braidwood Station Unit 01  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00576672-01  
 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

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

4. Identification of System: Primary Containment (PC) (Class MC System)

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1973 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition with 1992 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)
Seal Assembly for Outer Door of Personnel Interlock 1PC104M	Chicago Bridge & Iron	Not Recorded	Not Applicable	1PC104M	N/A	Replaced	No
Seal Assembly for Outer Door of Personnel Interlock 1PC104M	Trentec	Body HeatY22432A/ Control No. CN476	Not Applicable	Cat ID 40066-1 UTC 2632152	2002	Replacement	No

Description of Work: Due to unsatisfactory local leak rate test results (Issue Report 256786) the existing seal assembly was disassembled. Minor pitting in door gasket seating area initially discovered. Further inspection revealed hand wheel shaft and shaft seal housing were scored. Replaced existing seal assembly with brand new assembly. Final local leak rate test was performed on 9/26/04 and found to be acceptable.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 45.42 psig Test Temp. Ambient °F

9. Remarks: Applicable Manufacturer's Data Reports Attached at the time of final review and are 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. Casup, ISI Coordinator Date 9/29, 2004  
 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 ASBCI of CA have inspected the components described in this Owner's Report during the period 5-15-03 to 9-22-04, 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 [Signature]  
 Inspector's Signature

Commissions IL # 1085  
 National Board, State, Province, and Endorsements

Date 9-29, 2004

**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

Plant Name: Braidwood Station Unit 01  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Date 10/27/04  
Sheet 1 of 1

Work Order #00344828-01  
Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

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

4. Identification of System: Primary Containment (PC) (Class CC System)

- 5 (a) Applicable Construction Code: Proposed Standard Code for Concrete Reactor Vessels and Containments April 1973 and ACI-ASME-359-74 (ASME Boiler and Pressure Vessel Code Section III, Division 2, 1975) for Code Class CC  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition with 1992 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)
Repair of Concrete Containment Surface at Tendon Buttress A/IAC @ Elevation 374'	Masterflow	Lot 161072498N2	Not Applicable	Cat ID 37318-1 UTC 2638862	Not Applicable	Repair	No

7. Description of Work: Repaired surface of concrete containment identified under CR 2001-02181. No rebar was exposed during the repair activity.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure N/A psig Test Temp. N/A °F

Remarks: Repaired area was examined by VT-1C method upon completion of repairs.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this repair 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 11/8, 2004  
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 HSBC of CA have inspected the components described in this Owner's Report during the period 8-13-04 to 11-11-04, 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 IL # 1025  
National Board, State, Province, and Endorsements

Date 11-11, 2004