Exelon Generation Company, LLC
Byron Station
4450 North German Church Road
Byron, IL 61010-9794

www.exeloncorp.com

Exelon Nuclear

August 3, 2010

LTR: BYRON 2010-0042
FILE: 1.10.0101

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Byron Station, Unit 2
Facility Operating License No. NPF-66
NRC Docket No. STN50-455

SUBJECT: Byron Station Unit 2 90-Day Inservice Inspection Report for Interval 3, Period 2, (B2R15)

The subject 90-Day Inservice Inspection Report for the Byron Station Unit 2, Refueling Outage Fifteen (B2R15) is being submitted pursuant to the requirements of Article IWA-6000, "Records and Reports" of Section XI, "Rules for Inservice inspection of Nuclear Power Plant Components," of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code 2001 Edition through the 2003 Addenda. The report covers the inservice inspections conducted prior to and during the Unit 2 Spring 2010 refueling outage.

If there are any questions regarding this matter, please contact Dave Gudger, Regulatory Assurance Manager, at (815)-406-2800.

Respectfully,

Buddy J Adams for

Daniel J. Enright
Site Vice President
Byron Generating Station

DJE/RGM/TLH/cy

Attachment: B2R15 Inservice Inspection Summary Report – Spring 2010 outage

A047
NRR

BYRON

UNIT 2

Exelon Nuclear

B2R15

Spring 2010 Outage

INSERVICE INSPECTION SUMMARY REPORT

For Inspection Activities
from
October 24, 2008
to
May 8, 2010

Commercial Service Date
August 21, 1987

Document Completion Date
July 29, 2010

Exelon Generation Company (EGC, LLC)
4300 Winfield Rd
Warrenville, IL 60555

Byron Nuclear Power Station
4450 North German Church Rd.
Byron, IL 61010

BYRON UNIT 2

Exelon Nuclear

B2R15

INSERVICE INSPECTION SUMMARY REPORT

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SECTION 1.0

1.1.0 INTRODUCTION

Inservice inspections of American Society of Mechanical Engineers (ASME) Class 1, 2, 3, CC, and MC components were conducted at Byron Station Unit 2 from October 24, 2008 through May 8, 2010. The majority of these inspections were performed during the fifteenth refueling outage (B2R15) from April 19 through May 8, 2010.

B2R15 is the first outage of the Second Period in the Third Inspection Interval.

The examinations were performed in compliance with the rules and regulations of ASME Section XI 2001 Edition, through the 2003 Addenda, pursuant to the requirements of 10 CFR 50.55a.

See 1.7.0 of the introduction for a listing of referenced documents.

This summary report meets the requirements of ASME Code, IWA-6000 for the inspection of Class 1 and 2 components and piping. Class CC and MC components in the Containment Inservice Inspection (CISI) program are included when examination results require reporting as specified in 10 CFR 50.55a.

The Nondestructive Examination (NDE) Inservice Inspection (ISI) Program Plan for Class 1, 2, 3, CC, and MC components was developed in accordance with the requirements and intent of Section XI Subsections IWA, IWB, IWC, IWD, IWE, IWF and IWL, 2001 Edition, through the 2003 Addenda.

In addition to the ASME Section XI requirements of examination, certain Nuclear Regulatory Commission (NRC) augmented ISI inspections and industry initiatives (NEI-03-08) were required. The Byron Station Unit 2 augmented ISI examination requirements include:

- Class 1 pressure boundary examinations for leakage at nominal operating pressure, in accordance with NRC Generic Letter 88-05;
- Class 1 Alloy 600 weld examinations in accordance with MRP-139, N-722, and N-729-1;
- Class 2 and 3 pressure boundary examinations for leakage at nominal operating pressure, in accordance with NUREG 0737.
- Examination of RCP Flywheels in accordance with Regulatory Guide 1.14.
- Class 1 examinations of non-isolable Reactor Coolant System branch lines for Thermal Fatigue in accordance with MRP-146;

Specific requests for relief were developed and submitted for the NRC's review when the code and/or augmented requirement(s) were deemed to be impractical, results in excessive hardship, or an alternative examination method is determined as more suitable for the particular component.

1.1.1 Identification of Examination Requirements

The Section 7.0 of the ISI Program Plan contains the examination program tables. These tables are consistent with the tables found in Subsections IWB, IWC, IWD, IWE, IWF, and IWL-2500 of the ASME Code. The examination tables include the corresponding code category, item number, and component/weld selection in conformance with examination requirements and intent of Section XI.

For Class 1, 2, and certain non-class piping components, the requirements of Risk Informed Inservice Inspection (RI-ISI) are followed using EPRI TR112657 and Table 1 of ASME Code Case N-578-1.

1.1.2 Identification of Exempted Components

ASME Class 1, 2, and 3 components, or parts of components, that are not included in the examination tables and that are exempt from examination, as specified in Section XI Paragraphs IWB, IWC, and IWD-1200, and Tables IWB-2500-1, IWC-2500-1, and IWD-2500-1, are identified in the NDE Program Plan in conjunction with technical justification(s) for exempting the component/system.

Class 1 or 2 piping welds exempted by IWB and IWC-1200 are not included in the RI-ISI program. Previous selection and examination exemptions identified in Tables IWB and IWC-2500-1 for Examination Categories B-F, B-J, C-F-1, and C-F-2, are not allowed under the requirements of the RI-ISI program. With the adoption of RI-ISI, welds evaluated as Risk Category 6 or 7 are not subject to examination.

1.1.3 Implementation of the ISI Program

Exelon Nuclear, or its designee, examined ASME components utilizing the following methods: MT, PT, UT, VT-1, VT-2, and VT-3. The components examined comply with the ISI Program Schedule, Byron Station Technical Specifications, and/or comply with the ASME Section XI Repair/Replacement Program.

Personnel certified in nondestructive examination are qualified in accordance with ANSI/ASNT CP-189, 1995 Edition and ASME Section XI, 2001 Edition through 2003 Addenda including December 2003 Erratum.

All personnel performing ASME Section XI ultrasonic examinations are qualified to the requirements of ASME Section XI Appendix VII.

The NDE procedures were developed and qualified in conformance with ASME Section V and XI as applicable.

All ISI NDE, including evaluation of flaw indications, were performed in accordance with the requirements stipulated under Section XI IWA-2200. For components incorporated into the RI-ISI program, the guidance for the examination volume for a given degradation mechanism is provided by the EPRI Topical Report while the guidance for the examination method is provided by Code Case N-578-1.

1.1.4 Significant Activities During B2R15

During the refueling outage, the Alloy 600 welds were examined for PWSCC per the requirements specified in N-722:

- All reactor vessel bottom-mounted instrument penetrations were visually examined for leakage Item B15.80 weldments.
- All reactor vessel hot leg safe-end welds were visually examined for leakage for Item B15.90 weldments.
- One Alloy 600 reactor vessel cold leg safe-end weld was visually examined for leakage for Item B15.95 weldments.
- The steam generator primary channel head drains were visually examined for leakage for Item B15.120 weldments.

The reactor vessel head exterior surface was visually examined for evidence of leakage per the requirements specified in N-729-1 Note (4) for Item B4.10 components. One repaired reactor head penetration was examined with surface and volumetric methods per Item B4.20 and the approved relief request I3R-16.

All weld overlays on the pressurizer safe-end welds were volumetrically examined. This examination complies with the requirements specified in MRP-139 for Category F welds and ASME Appendix Q Paragraph Q-4300(a). Use of Appendix Q was addressed in relief request I3R-08.

1.1.5 ASME Section XI Code Cases

N-566-2 is incorporated into the current Byron Station ISI Program and was utilized during this fuel cycle.

The implementation of the risk-informed program as described in relief request I3R-02 utilized N-578-1 during this Inspection Interval.

For Repair/Replacement activities, code cases are identified on the applicable Form NIS-2.

1.1.6 Witness and Verification of Examination

The inservice inspections were witnessed and/or verified by Authorized Nuclear Inservice Inspectors (ANII) associated with Hartford Steam Boiler CT of Hartford, Connecticut, Chicago Branch, at 2443 Warrenville Rd., Suite 500, Lisle, Illinois 60532.

1.1.7 Corrective Measures

A surface examination revealed two indications located in the fusion zone between two weld beads of an attachment weld on the 12" SI pipe to the flued head Penetration P-66 closure. The weld is identified in the Inservice Inspection Program as 2SI04B-12/C02 and was examined as Observation 15-203 in the outage. The

weld was selected under ASME Section XI Class 2 Examination Category C-C; Item C3.20. The indications were described in Issue Report 01057786 and OE 31183.

The indications were near the weld toe on the flued head side of the fillet weld. The indications followed the interface between the beads while being removed and were thus classified as lack of fusion. The areas of the indications were blended and the indications were completely removed.

Additional examinations were performed on other attachment welds of similar materials and service per the requirements of ASME XI IWC-2430. Welds 2RH01BA-12/C03 and 2SI05BA-8/C02 were examined as Observations 15-223 and 15-221 respectively. The additional examinations were acceptable and no other code related actions are required.

1.2.0 EXAMINATION SUMMARIES

The following section lists the summaries of examinations performed during the refueling cycle. Refer to Section 2.0 for each summary table for information or for specific tests and examinations conducted during this term.

- Welds & Components Summaries
  Inservice Inspection - Weld / Component Listing
  Inservice Inspection - Bolts, Pumps, and Valves Listing
  Preservice Inspection - Weld / Component Listing
  Preservice Inspection - Bolts, Pumps, and Valves Listing
- System Pressure Test Summaries
- Component Support Examination Summary
- Component Snubber Test Summary

1.3.0 UNIT 2 EXAMINATION COMPLETION STATUS

A summary table of the examination status of Class 1 and 2 components is contained in Section 3.0.

1.4.0 FORM NIS-1 DATA SHEETS

ASME Form NIS-1 were filed during the cycle for Unit 2. See Section 4.0 for the reports.

1.5.0 FORM NIS-2 DATA SHEETS

ASME Form NIS-2 were filed during the cycle for Unit 2. See Section 5.0 for the reports.

1.6.0 CONTAINMENT ISI PROGRAM

No reportable conditions were identified for Class CC and Class MC components during this fuel cycle.

1.7.0 REFERENCED DOCUMENTS

1.7.1 Code of Federal Regulations, Title 10 Energy

Part 50: *Domestic Licensing of Production and Utilization Facilities.*

50.55a: *Codes and Standards.*

1.7.2 American Society of Mechanical Engineers Boiler and Pressure Vessel Code

Section V: *Nondestructive Examination*, 2001 Edition, through 2003 Addenda.

Section XI: *Rules for Inservice Inspection of Nuclear Power Plant Components*, 2001 Edition, through 2003 Addenda.

IWA-2200: *Examination Methods.*

IWA-6000: *Records and Reports.*

IWB, IWC: and IWD-1200, *Components Exempt from Examination.*

IWB, IWC: and IWD-2500, *Examination and Pressure Test Requirements.*

IWC-2430: *Additional Examinations.*

IWC-3512: *Standards for Examination Category C-C, Welded Attachments for Vessels, Piping, Pumps, and Valves.*

Appendix II: *Owner's Reports for Inservice Inspections.*

Form NIS-1: *Owners Report for Inservice Inspections.*

Form NIS-2: *Owners Report for Repairs or Replacements.*

Appendix VII: *Qualification of Nondestructive Examination Personnel for Ultrasonic Examination.*

Code Case N-504-3: *Alternative Rules for Repair of Classes 1, 2, and 3 Austenitic Stainless Steel Piping.*

Code Case N-566-2: *Corrective Action for Leakage Identified at Bolted Connections.*

Code Case N-578-1: *Risk-Informed Requirements for Class 1, 2, or 3 Piping, Method B.*

Code Case N-722: *Additional Examinations for PWR Pressure Retaining Welds in Class 1 Components Fabricated With Alloy 600/82/182 Materials.*

Code Case N-729-1: *Alternative Examination Requirements for PWR Reactor Vessel Upper Heads With Nozzles Having Pressure-Retaining Partial-Penetration Welds.*

Nonmandatory Appendix Q: *Weld Overlay Repair of Class 1, 2, and 3 Austenitic Stainless Steel Piping Weldments* (2004 Edition, through 2005 Addenda). Appendix Q was required for the installation of the weld overlays using Code Case N-504-3.

Section Q-4300: *Inservice Inspection.*

1.7.3 American National Standards Institute / American Society for Nondestructive Testing

ANSI/ASNT CP-189: 1995 Edition, *Standard for Qualification and Certification of Nondestructive Testing Personnel.*

1.7.4 Miscellaneous NRC Documents

Generic Letter 88-05: *Boric Acid Corrosion of Carbon Steel Reactor Pressure Boundary Components in PWR Plants.*

NUREG 0737: *Clarification of TMI Action Plan Requirements.*

Regulatory Guide RG 1.14: *Reactor Coolant Pump Flywheel Integrity.*

1.7.5 Electric Power Research Institute

Material Reliability Program: *Primary System Piping Butt Weld Inspection and Evaluation Guideline* (MRP-139) Revision 1, December 2008.

Material Reliability Program: *Management of Thermal Fatigue in Normally Stagnant Non-Isolable Reactor Coolant System Branch Lines* (MRP-146), June 2005.

Topical Report TR112657: Revision B-A, *Revised Risk-Informed Inservice Inspection Procedure,* December 1999.

1.7.6 Nuclear Energy Institute

NEI 03-08: *Guideline for the Management of Materials Issues.*

1.7.7 Byron Station Documents

Relief Request I3R-02: *Alternate Risk-Informed Selection and Examination Criteria for Category B-F, B-J, C-F-1, and C-F-2 Pressure Retaining Piping Welds.*

Relief Request I3R-08: *Alternative Requirements of Structural Weld Overlays (SWOLs) of the Pressurizer Surge, Spray, Safety and Relief Nozzles, Dissimilar Welds including the SWOLs of the Safe-End to Pipe, Reducer and Elbow Welds on Pressurizer Surge, Spray, Safety and Relief Nozzles.*

Relief Request I3R-16: *Alternate Examination Frequency under ASME Code Case N-729-1 for Reactor Vessel Head Penetration Welds.*

Issue Report 01057786: *Recordable Indications Discovered During ISI Examination.*

1.7.8 Institute of Nuclear Power Operations

OE31183: *Unacceptable Surface Indications on a Safety Injection Flued Head Penetration Weld.*

SECTION 2.0

Weld / Component Outage Summary

SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.11	2CVA3B-2/W-70 Pipe - Elbow	2CVA3B-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-005								
R-A	R1.11	2CVA3B-2/W-71 Elbow - Pipe	2CVA3B-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-006								
R-A	R1.11	2CVA3B-2/W-72 Pipe - Elbow	2CVA3B-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-007								
R-A	R1.11	2CVA3B-2/W-73 Elbow - Pipe	2CVA3B-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-008								
R-A	R1.11	2CVA3B-2/W-80 Pipe - Elbow	2CVA3B-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-009								
R-A	R1.11	2CVA3B-2/W-81 Elbow - Pipe	2CVA3B-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-010								
R-A	R1.11	2CVA5AA-2/W-06 Pipe - Elbow	2CVA5AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-011								
R-A	R1.11	2CVA5AA-2/W-07 Elbow - Pipe	2CVA5AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-012								
R-A	R1.11	2CVA6AA-2/W-04 Pipe - Elbow	2CVA6AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-013								
R-A	R1.11	2CVA6AA-2/W-05 Elbow - Pipe	2CVA6AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-014								
R-A	R1.11	2CVA7AA-2/W-06 Pipe - Elbow	2CVA7AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-050								

Weld / Component Outage Summary

SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.11	2CVA7AA-2/W-07 Elbow - Pipe	2CVA7AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-051								
R-A	R1.11	2CVA7AA-2/W-08 Pipe - Elbow	2CVA7AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-052								

Weld / Component Outage Summary

SYSTEM: Feedwater System (FW)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.11 R1.18	2FW03DA-16/C01 Valve - Pipe	2FW03DA-16	I3R-02	C5.51 I3T-01 I3T-02	100	UT	NRI
OBS 15-102								
R-A	R1.11 R1.18	2FW03DA-16/C02 Pipe - Penetration	2FW03DA-16	I3R-02	C5.51 I3T-01 I3T-02	100	UT	GEOM
OBS 15-103 ID Geometry 360° Intermittent.								
R-A	R1.11 R1.18	2FW81BA-6/C07 Pipe - Tee	2FW81BA-6	I3R-02	C5.51 I3T-01 I3T-02	99	UT	NRI
OBS 15-104 Coverage reduced due to adjacent branch connection on tee side.								
R-A	R1.11 R1.18	2FW87CA-6/C01 Reducer - Tee	2FW87CA-6	I3R-02	C5.51 I3T-01 I3T-02	99	UT	NRI
OBS 15-105 Coverage reduced due to adjacent branch connection on tee side.								
R-A	R1.11 R1.18	2FW87CA-6/C02 Tee - Pipe	2FW87CA-6	I3R-02	C5.51 I3T-01 I3T-02	98	UT	GEOM
OBS 15-106 ID Geometry 360° Intermittent. Coverage reduced due to adjacent branch connection on tee side.								
R-A	R1.11 R1.18	2FW87CA-6/C03 Pipe - Penetration	2FW87CA-6	I3R-02	C5.51 I3T-01 I3T-02	100	UT	GEOM
OBS 15-107 ID Geometry 360° Intermittent.								
C-C	C3.20	2FW87CA-6/C04 Closure Plate 2PC-100	2FW87CA-6			100	MT	NRI
OBS 15-108								

Weld / Component Outage Summary

SYSTEM: Pressurizer (PZR)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
B-B	B2.11	2RY-01-S/PC-05 Shell - Upper Head	2RY-01-S			96	UT	NRI
OBS 15-128 Scanning obstructed by 4 welded insulation pads.								
B-B	B2.12	2RY-01-S/PL-04 Upper Longitudinal Weld	2RY-01-S			100	UT	NRI
OBS 15-129								
B-D	B3.110	2RY-01-S/PN-02 Spray Nozzle	2RY-01-S	I3R-12		62	UT	NRI
OBS 15-131 Limited examination due to nozzle to vessel configuration.								
B-D	B3.120	2RY-01-S/PN-02-NIR Spray Nozzle Inner Radius	2RY-01-S				UT	NRI
OBS 15-133								
B-D	B3.110	2RY-01-S/PN-03 PORV Nozzle	2RY-01-S	I3R-12		66	UT	NRI
OBS 15-136 Limited examination due to nozzle to vessel configuration.								
B-D	B3.120	2RY-01-S/PN-03-NIR Relief Nozzle Inner Radius	2RY-01-S				UT	NRI
OBS 15-136								
B-D	B3.120	2RY-01-S/PN-05-NIR Relief Nozzle Inner Radius	2RY-01-S				UT	NRI
OBS 15-139								
B-D	B3.110	2RY-01-S/PN-06 Relief Nozzle	2RY-01-S	I3R-12		66	UT	NRI
OBS 15-140 Limited examination due to nozzle to vessel configuration.								
B-D	B3.120	2RY-01-S/PN-06-NIR Relief Nozzle Inner Radius	2RY-01-S				UT	NRI
OBS 15-142								

Weld / Component Outage Summary

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.20	2RC01AA-29/J06 SOL - Thermowell	2RC01AA-29	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-015								
R-A	R1.15 B15.90	2RC-01-R/RPVS-A F1 RPV Nozzle Safe-End HL Loop D	2RC-01-R	I3R-02	B5.10 I3T-01 I3T-02		BMV	NRI
OBS 15-185 Hot Leg Bare Metal exam per N-722 requirements. See WO#01182316.								
R-A	R1.15 B15.90	2RC-01-R/RPVS-D F1 RPV Nozzle Safe-End HL Loop C	2RC-01-R	I3R-02	B5.10 I3T-01 I3T-02		BMV	NRI
OBS 15-186 Hot Leg Bare Metal exam per N-722 requirements. See WO#01182316.								
R-A	R1.15 B15.90	2RC-01-R/RPVS-E F1 RPV Nozzle Safe-End HL Loop B	2RC-01-R	I3R-02	B5.10 I3T-01 I3T-02		BMV	NRI
OBS 15-187 Hot Leg Bare Metal exam per N-722 requirements. See WO#01182316.								
R-A	R1.15 B15.95	2RC-01-R/RPVS-F F1 RPV Nozzle Safe-End CL Loop B	2RC-01-R	I3R-02	B5.10 I3T-01 I3T-02		VT-2	NRI
OBS 15-225 Bare Metal exam per N-722 requirements. See WO#01300973.								
R-A	R1.15 B15.90	2RC-01-R/RPVS-H F1 RPV Nozzle Safe-End HL Loop A	2RC-01-R	I3R-02	B5.10 I3T-01 I3T-02		BMV	NRI
OBS 15-188 Hot Leg Bare Metal exam per N-722 requirements. See WO#01182316.								
R-A	R1.20	2RC03AA-27.5/J02A SOL - Thermowell	2RC03AA-27.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-016								
R-A	R1.20	2RC03AA-27.5/J04 SOL - Thermowell	2RC03AA-27.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-017								
R-A	R1.20	2RC13AA-2/W-01 SOL - Pipe	2RC13AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-026								
R-A	R1.20	2RC13AA-2/W-02 Pipe - Tee	2RC13AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-027								

Weld / Component Outage Summary

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.20	2RC13AA-2/W-03 Tee - Reducer	2RC13AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-028								
R-A	R1.20	2RC13AA-2/W-04 Tee - Pipe	2RC13AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-029								
R-A	R1.20	2RC13AA-2/W-05 Pipe - Valve	2RC13AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-030								
R-A	R1.20	2RC13AB-2/W-01 SOL - Pipe	2RC13AB-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-031								
R-A	R1.20	2RC13AC-2/W-01 SOL - Pipe	2RC13AC-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-032								
R-A	R1.20	2RC13AD-2/W-01 SOL - Pipe	2RC13AD-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-033								
R-A	R1.11	2RC14AA-2/W-01 SOL - Pipe	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-036								
R-A	R1.11	2RC14AA-2/W-01A Pipe - Tee	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-037								
R-A	R1.11	2RC14AA-2/W-01B Tee - Reducer	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-038								
R-A	R1.11	2RC14AA-2/W-01C Tee - Pipe	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-039								
R-A	R1.11	2RC14AA-2/W-02 Pipe - Elbow	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-040								

Weld / Component Outage Summary

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.11	2RC14AA-2/W-03 Elbow - Pipe	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-041								
R-A	R1.11	2RC14AA-2/W-04 Pipe - Elbow	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-042								
R-A	R1.11	2RC14AA-2/W-05 Elbow - Pipe	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-043								
R-A	R1.11	2RC14AA-2/W-06 Pipe - Valve	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-044								
R-A	R1.11	2RC14AA-2/W-07 Valve - Pipe	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-045								
R-A	R1.11	2RC14AA-2/W-08 Pipe - Tee	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-046								
R-A	R1.11	2RC14AA-2/W-09 Tee - Reducer	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-047								
R-A	R1.11	2RC14AA-2/W-10 Tee - Pipe	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-048								
R-A	R1.11	2RC14AA-2/W-11 Pipe - Valve	2RC14AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-049								
R-A	R1.11	2RC16AA-2/W-03 Valve - Pipe	2RC16AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-053								
R-A	R1.11	2RC16AA-2/W-04 Pipe - Elbow	2RC16AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-054								

Weld / Component Outage Summary

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.11	2RC16AA-2/W-05 Elbow - Pipe	2RC16AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-055								
R-A	R1.11	2RC16AA-2/W-06 Pipe - Elbow	2RC16AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-056								
R-A	R1.11	2RC16AA-2/W-07 Elbow - Pipe	2RC16AA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-057								
R-A	R1.11	2RC16AB-2/W-04 Pipe - Elbow	2RC16AB-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-058								
R-A	R1.11	2RC16AB-2/W-05 Elbow - Pipe	2RC16AB-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-059								
R-A	R1.20	2RC16AC-2/W-08 Pipe - SOL	2RC16AC-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-024								
R-A	R1.20	2RC16AD-2/W-01 Valve - Pipe	2RC16AD-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-025								
R-A	R1.20	2RC22AA-1.5/W-01 SOL - Pipe	2RC22AA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-020								
R-A	R1.20	2RC22AA-1.5/W-05 Elbow - Pipe	2RC22AA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-021								
R-A	R1.20	2RC22AC-1.5/W-01 SOL - Pipe	2RC22AC-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-022								
R-A	R1.20	2RC22AC-1.5/W-06 Pipe - Tee	2RC22AC-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-023								

Weld / Component Outage Summary

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.20	2RC22AD-1.5/W-01 SOL - Pipe	2RC22AD-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-018								
R-A	R1.20	2RC22AD-1.5/W-08 Pipe - Tee	2RC22AD-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-019								
R-A	R1.20	2RC26A-2/W-01 SOL - Pipe	2RC26A-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-034								
R-A	R1.20	2RC26A-2/W-02 Pipe - Valve	2RC26A-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-035								
N/A	N/A	2RC28A-3/Zone 1 Elbow - SOL	2RC28A-3			91	UT VT-2	NRI NRI
OBS 15-212 Volumetric and bare metal visual per MRP-146. Scanning obstructed due to elbow to branch configuration.								
R-A	R1.11	2RC30AA-1.5/W-01 Valve - Reducer	2RC30AA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-079								
R-A	R1.20	2RC35AA-6/J02 Pipe - Elbow	2RC35AA-6	I3R-02	B9.11 I3T-01 I3T-02	100	UT	NRI
OBS 15-199 ID Geometry 360° Intermittent seen below recording levels.								
R-A	R1.20	2RC35AA-6/J03 Elbow - Pipe	2RC35AA-6	I3R-02	B9.11 I3T-01 I3T-02	100	UT	NRI
OBS 15-200 ID Geometry 360° Intermittent seen below recording levels.								
R-A	R1.11	2RC35AA-6/J04 Pipe - Elbow	2RC35AA-6	I3R-02	B9.11 I3T-01 I3T-02	100	UT	NRI
OBS 15-201 ID Geometry 360° Intermittent seen below recording levels.								
R-A	R1.11	2RC35AA-6/J05 Elbow - Pipe	2RC35AA-6	I3R-02	B9.11 I3T-01 I3T-02	100	UT	NRI
OBS 15-202 ID Geometry 360° Intermittent seen below recording levels.								

Weld / Component Outage Summary

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
N/A	N/A	2RC37A-3/Zone 2	2RC37A-3			91	UT	NRI
		Elbow - SOL					VT-2	NRI

OBS 15-213
Volumetric and bare metal visual per MRP-146.
Scanning obstructed due to elbow to branch configuration.

Weld / Component Outage Summary

SYSTEM: Residual Heat Removal System (RH)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
C-C	C3.20	2RH01BA-12/C03 Closure Plate 2PC-68	2RH01BA-12			100	PT	NRI
OBS 15-223 WO# 01330140. Additional examination for OBS 15-203.								
C-C	C3.20	2RH02AA-8/C47 Closure Plate 2AB-37	2RH02AA-8			100	PT	IND
OBS 15-181 1/16" Rounded Indication on penetration plate 0.25" from weld toe. Acceptable per procedure. Ref. RIR B2R15-PT-010.								

Weld / Component Outage Summary

SYSTEM: Reactor Pressure Vessel (RPV)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
N/A	B15.80	2RC-01-R/RPV BMI RPV Bottom Mounted Instruments	2RC-01-R			100	VE	NRI
OBS 15-217 Detailed examination of head surface and annular area of the penetrations. Ref. WO 01019896								
B-E	B4.20	2RC-01-R/RPV HEAD PEN RPV Head Penetrations J-Weld	2RC-01-R	I3R-16 I3R-18		100 100	UT PT	RI NRI
OBS 15-218 Examination per N-729-1 requirements. Penetration 68 only. See WO#01186189. Indication classified as fabrication flaw from repair welding in B2R13. No change in flaw seen in this examination.								
B-E	B4.10	2RC-01-R/RPV HEAD SURF RPV Head Penetrations	2RC-01-R			100	BMV	NRI
OBS 15-219 Detailed examination of head surface and annular area of the penetrations. Ref. WO 01181363								
B-N-1	B13.10	2RC-01-R/RPV INTERIOR RPV Interior Surfaces	2RC-01-R				VT-3	NRI
OBS 15-220 Debris found reference IR 01061204. All other conditions acceptable.								

Weld / Component Outage Summary

SYSTEM: Reactor Coolant System (RY)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.11	2RY01B-6/J28 Elbow - Pipe	2RY01B-6	I3R-02	B9.11 I3T-01 I3T-02	100	UT	NRI
OBS 15-156 ID Geometry 360° Intermittent seen below recording levels.								
R-A	R1.11	2RY01B-6/J29 Pipe - Elbow	2RY01B-6	I3R-02	B9.11 I3T-01 I3T-02	100	UT	NRI
OBS 15-157 ID Geometry 360° Intermittent seen below recording levels.								
R-A	R1.11	2RY01B-6/J30 Elbow - Reducer	2RY01B-6	I3R-02	B9.11 I3T-01 I3T-02	100	UT	NRI
OBS 15-158 ID Geometry 360° Intermittent seen below recording levels.								
N/A	N/A	2RY01C-4/J01S Reducer - Spray Nozzle Overlay	2RY01C-4	I3R-08		100	UT	NRI
OBS 15-159 Reexamination per Appendix Q requirements.								
N/A	N/A	2RY-01-S/PN-01-F1S Surge Nozzle-Safe End Overlay	2RY-01-S	I3R-08		100	UT	NRI
OBS 15-130 Reexamination per Appendix Q and MRP-139 Category F requirements.								
N/A	N/A	2RY-01-S/PN-02-F2S Spray Nozzle-Safe End Overlay	2RY-01-S	I3R-08		100	UT	NRI
OBS 15-132 Reexamination per Appendix Q and MRP-139 Category F requirements.								
N/A	N/A	2RY-01-S/PN-03-F3S PORV Nozzle-Safe End Overlay	2RY-01-S	I3R-08		100	UT	NRI
OBS 15-135 Reexamination per Appendix Q and MRP-139 Category F requirements.								
N/A	N/A	2RY-01-S/PN-04-F4S Safety A Nozzle-Safe End Overlay	2RY-01-S	I3R-08			UT	NRI
OBS 15-137 Reexamination per Appendix Q and MRP-139 Category F requirements. 99.4% coverage in circ. direction and 99.2% in axial direction due to 2 laminar indications seen in the B2R13 baseline examination.								
N/A	N/A	2RY-01-S/PN-05-F5S Safety B Nozzle-Safe End Overlay	2RY-01-S	I3R-08			UT	NRI
OBS 15-138 Reexamination per Appendix Q and MRP-139 Category F requirements. 98.2% coverage in circ. direction and 98.3% in axial direction due to 1 laminar indication seen in the B2R13 baseline examination.								
N/A	N/A	2RY-01-S/PN-06-F6S Safety C Nozzle-Safe End Overlay	2RY-01-S	I3R-08			UT	NRI
OBS 15-141 Reexamination per Appendix Q and MRP-139 Category F requirements. 92.5% coverage in circ. direction and 90.9% in axial direction due to laminar indications seen in the B2R13 baseline examination.								

Weld / Component Outage Summary

SYSTEM: Reactor Coolant System (RY)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
N/A	N/A	2RY02A-6/J01S PORV Nozzle - Elbow Overlay	2RY02A-6	I3R-08			UT	NRI
OBS 15-171 Reexamination per Appendix Q requirements. 98.2% coverage in circ. direction and 98.4% in axial direction due to 1 laminar indication seen in the B2R13 baseline examination.								
N/A	N/A	2RY03AA-6/J01S Safety A Nozzle-Safe End - Elbow Overlay	2RY03AA-6	I3R-08		100	UT	NRI
OBS 15-160 Reexamination per Appendix Q requirements.								
N/A	N/A	2RY03AB-6/J01S Safety B Nozzle-Safe End - Elbow Overlay	2RY03AB-6	I3R-08			UT	NRI
OBS 15-164 Reexamination per Appendix Q requirements. 100% coverage in circ. direction and 99.1% in axial direction due to adjacent elbow configuration.								
N/A	N/A	2RY03AC-6/J01S Safety C Nozzle-Safe End - Elbow Overlay	2RY03AC-6	I3R-08			UT	NRI
OBS 15-168 Reexamination per Appendix Q requirements. 99.6% coverage in circ. direction and 99.8% in axial direction due to laminar indications seen in the B2R13 baseline examination.								
N/A	N/A	2RY11A-14/J01S Surge Nozzle Safe End - Pipe Overlay	2RY11A-14	I3R-08		100	UT	NRI
OBS 15-144 Reexamination per Appendix Q requirements.								
R-A	R1.11	2RY18A-2/W-01 Valve - Pipe	2RY18A-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-001								
R-A	R1.11	2RY18A-2/W-02 Pipe - Elbow	2RY18A-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-002								
R-A	R1.11	2RY18A-2/W-03 Elbow - Pipe	2RY18A-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-003								
R-A	R1.11	2RY18A-2/W-04 Pipe - WOL	2RY18A-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-004								

Weld / Component Outage Summary

SYSTEM: Steam Generator (SG)

Section XI Cat.	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments							
B15.120	2RC-01-BA/DRAIN SG Channel Head Drain	2RC-01-BA				VT-2	NRI
OBS 15-211 Bare Metal exam per N-722 requirements. See WO#1182319.							
B15.120	2RC-01-BB/DRAIN SG Channel Head Drain	2RC-01-BB				VT-2	NRI
OBS 15-214 Bare Metal exam per N-722 requirements. See WO#1182320.							
B15.120	2RC-01-BC/DRAIN SG Channel Head Drain	2RC-01-BC				VT-2	NRI
OBS 15-215 Bare Metal exam per N-722 requirements. See WO#1182321.							
B15.120	2RC-01-BD/DRAIN SG Channel Head Drain	2RC-01-BD				VT-2	NRI
OBS 15-216 Bare Metal exam per N-722 requirements. See WO#1182317.							

Weld / Component Outage Summary

SYSTEM: Safety Injection System (SI)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
B-K	B10.20	2SI03DA-2/W-08A Closure Plate 2RB-61	2SI03DA-2	NA		100	PT	IND
OBS 15-204 1/16" Rounded Indication on penetration plate 0.2" from weld toe. Acceptable per procedure. Ref. RIR B2R15-PT-004.								
C-C	C3.20	2SI04B-12/C02 Closure Plate 2PC-66	2SI04B-12			100	PT PT PT PT	RI RI RI NRI
OBS 15-203 One 0.1" rounded, one 1.3" linear, and one 2.4" linear indications. The linear indications are rejectable per procedure. Ref: IR 01057786. The indications were reexamined twice after minor surface conditioning. Linear indications removed by blending and the areas were reexamined. Additional examinations performed on 15-221 and 15-223.								
C-C	C3.20	2SI05BA-8/C02 Closure Plate 2PC-50	2SI05BA-8			100	PT	NRI
OBS 15-221 WO# 01330141. Additional examination for OBS 15-203.								
R-A	R1.11	2SI08HA-2/W-01 Reducer - Coupling	2SI08HA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-060								
R-A	R1.11	2SI08HA-2/W-02 Coupling - Pipe	2SI08HA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-061								
R-A	R1.11	2SI08HA-2/W-03 Pipe - Flange	2SI08HA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-062								
R-A	R1.11	2SI08HA-2/W-04 Flange - Pipe	2SI08HA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-063								
R-A	R1.11	2SI08HA-2/W-05 Pipe - Coupling	2SI08HA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-064								
R-A	R1.11	2SI08HA-2/W-06 Coupling - Reducer	2SI08HA-2	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-065								
R-A	R1.11	2SI08JA-1.5/W-01 Reducer - Pipe	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-066								

Weld / Component Outage Summary

SYSTEM: Safety Injection System (SI)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.11	2SI08JA-1.5/W-02 Pipe - Elbow	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-067								
R-A	R1.11	2SI08JA-1.5/W-03 Elbow - Pipe	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-068								
R-A	R1.11	2SI08JA-1.5/W-04 Pipe - Elbow	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-069								
R-A	R1.11	2SI08JA-1.5/W-05 Elbow - Pipe	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-070								
R-A	R1.11	2SI08JA-1.5/W-05A Pipe - Valve	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-071								
R-A	R1.11	2SI08JA-1.5/W-05B Valve - Pipe	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-072								
R-A	R1.11	2SI08JA-1.5/W-06 Pipe - Elbow	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-073								
R-A	R1.11	2SI08JA-1.5/W-07 Elbow - Pipe	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-074								
R-A	R1.11	2SI08JA-1.5/W-10 Pipe - Flange	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-075								
R-A	R1.11	2SI08JA-1.5/W-11 Flange - Pipe	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-076								
R-A	R1.11	2SI08JA-1.5/W-14 Pipe - Coupling	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-077								

Weld / Component Outage Summary

SYSTEM: Safety Injection System (SI)

Section XI Cat.		Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Actual Exam	Results
Comments								
R-A	R1.11	2SI08JA-1.5/W-15 Coupling - Pipe	2SI08JA-1.5	I3R-02	B9.40 I3T-01 I3T-02		VT-2	NRI
OBS 15-078								

Bolts, Pumps, and Valves Outage Summary

SYSTEM: Safety Injection System (SI)

Section XI Cat.	Item	Component ID Description	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
B-G-2	B7.50	2SI08HA-2/FLG 1-8 Piping Flange Bolting			VT-1	RI
OBS 15-224 Flange was disassembled for gasket replacement under WO 01179198. All studs and nuts were reused.						

Weld / Component Outage Summary (Preservice Inspections)

SYSTEM: Safety Injection System (SI)

Section XI Cat.	Section XI Item	Component ID Description	Line Number	Relief Requests	Technical Notes	Code Coverage	Required Exam	Actual Exam	Results
Comments									
NA	NA	2SI18FC-2/W-01.02 Valve - Pipe	2SI18FC-2	I3R-02	B9.40 I3T-01 I3T-02	100	SURF VT-2	PT VT-2	NRI NRI
Baseline examination Baseline exam of new socket weld W-4 under WO#01225344.									
NA	NA	2SI18FC-2/W-01A.01 Pipe - Coupling	2SI18FC-2	I3R-02	B9.40 I3T-01 I3T-02	100	SURF VT-2	PT VT-2	NRI NRI
Baseline examination Baseline exam of new socket weld W-3A under WO#01225344.									
NA	NA	2SI18FC-2/W-01B.01 Coupling - Pipe	2SI18FC-2	I3R-02	B9.40 I3T-01 I3T-02	100	SURF VT-2	PT VT-2	NRI NRI
Baseline examination Baseline exam of new socket weld W-2 under WO#01225344.									

Detailed Inservice Inspection Bolts, Pumps, and Valves Listing (PSI)

SYSTEM: Reactor Coolant System (RY)

Section XI Cat.	Item	Component ID Description	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
B-G-2	B7.50	2RY03BC-6/FLG 1-12 Piping Flange Bolting			VT-1	NRI
Baseline exam for 2RY8010C replacement under WO#01178737.						
B-G-2	B7.50	2RY76A-2/FLG 1-8 Piping Flange Bolting			VT-1	NRI
Baseline exam for flange bolting replacement under WO#01180530.						

Detailed Inservice Inspection Bolts, Pumps, and Valves Listing (PSI)

SYSTEM: Steam Generator (SG)

Section XI Cat.	Item	Component ID Description	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
B-G-2	B7.30	2RC-01-BA/BLT 1-32 SG Manway Studs and Nuts			VT-1	NRI
Baseline exam for Cold Leg Bolt #13 replacement. WO#01199605.						

Pressure Test Outage Summary

SYSTEM: Auxiliary Feedwater System (AF)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-AF-2-1		I3T-04	VT-2	NRI
C-H	C7.10	2-AF-2-2		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Containment Spray System (CS)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-CS-2-1		I3T-04	VT-2	NRI
C-H	C7.10	2-CS-2-2		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-CV-2-1		I3T-04	VT-2	NRI
C-H	C7.10	2-CV-2-10		I3T-04	VT-2	NRI
C-H	C7.10	2-CV-2-2		I3T-04	VT-2	NRI
C-H	C7.10	2-CV-2-3		I3T-04	VT-2	NRI
C-H	C7.10	2-CV-2-4		I3T-04	VT-2	NRI
C-H	C7.10	2-CV-2-5		I3T-04	VT-2	NRI
C-H	C7.10	2-CV-2-6		I3T-04	VT-2	NRI
C-H	C7.10	2-CV-2-7		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Fuel Pool Cooling System (FC)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-FC-2-1		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Feedwater System (FW)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-FW-2-2		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Main Steam System (MS)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-MS-2-1		I3T-04	VT-2	NRI
C-H	C7.10	2-MS-2-2		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Off Gas System (OG)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-OG-2-1		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Process Sampling System (PS)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-PS-2-3		I3T-04	VT-2	NRI
C-H	C7.10	2-PS-2-4		I3T-04	VT-2	NRI
C-H	C7.10	2-PS-2-5		I3T-04	VT-2	NRI
C-H	C7.10	2-PS-2-6		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
B-P	B15.10	2-RC-1-1		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Residual Heat Removal System (RH)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-RH-2-1		I3T-04	VT-2	NRI
C-H	C7.10	2-RH-2-2		I3T-04	VT-2	NRI
C-H	C7.10	2-RH-2-3		I3T-04	VT-2	NRI
C-H	C7.10	2-RH-2-6		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Safety Injection System (SI)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-SI-2-1		I3T-04	VT-2	NRI
C-H	C7.10	2-SI-2-2		I3T-04	VT-2	NRI
C-H	C7.10	2-SI-2-3		I3T-04	VT-2	NRI
C-H	C7.10	2-SI-2-4		I3T-04	VT-2	NRI
C-H	C7.10	2-SI-2-5		I3T-04	VT-2	NRI
C-H	C7.10	2-SI-2-6		I3T-04	VT-2	NRI
C-H	C7.10	2-SI-2-7		I3T-04	VT-2	NRI

Pressure Test Outage Summary

SYSTEM: Essential Service Water System (SX)

Section XI Cat.	Section XI Item	Component ID	Relief Requests	Technical Notes	Actual Exam	Results
Comments						
C-H	C7.10	2-SX-2-1		I3T-04	VT-2	NRI
C-H	C7.10	2-SX-2-2		I3T-04	VT-2	NRI

Component Support Outage Summary

SYSTEM: Containment Spray System (CS)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.20	2CS02AA-10/2CS03A007S SNUBBER	2CS02AA-10		SR	VT-3	NRI
Comments: MINOR SURFACE RUST ON REAR BRACKET WELDS AND PIVOT PIN, NO DEGRADATION NOTED							
F-A	F1.20	2CS06AA-6/2CS06033A ANCHOR	2CS06AA-6			VT-3	NRI
Comments: No indication detected							

Component Support Outage Summary

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

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.20	2CV05CB-6/2CV08007V VARIABLE	2CV05CB-6			VT-3	NRI
ALL WELDS ARE PAINTED							
F-A	F1.20	2CV09A-4/2CV01A064X SEISMIC	2CV09A-4			VT-3	NRI
WELDS ARE PAINTED							
F-A	F1.10	2CV10DB-3/2CV02009S SNUBBER	2CV10DB-3		SR	VT-3	NRI
INSULATION REMOVED FOR EXAM							
F-A	F1.10	2CV45B-2/2CV22007X SEISMIC	2CV45B-2			VT-3	NRI
INSULATION REMOVED FOR EXAM							
F-A	F1.10	2CV45B-2/2CV22008X SEISMIC	2CV45B-2			VT-3	NRI
INSULATION REMOVED FOR EXAM							
F-A	F1.10	2CV45B-2/2CV22010X SEISMIC	2CV45B-2			VT-3	NRI
INSULATION REMOVED FOR EXAM							
F-A	F1.10	2CV45B-2/2CV22011X SEISMIC	2CV45B-2			VT-3	NRI
INSULATION REMOVED FOR EXAM							
F-A	F1.10	2CV45B-2/2CV22016A ANCHOR	2CV45B-2			VT-3	NRI
INSULATION REMOVED FOR EXAM							
F-A	F1.10	2CVA6AA-2/2CV09026S SNUBBER	2CVA6AA-2		SR	VT-3	NRI
INSULATION REMOVED FOR EXAM							
F-A	F1.10	2CVA7AA-2/2CV25012S SNUBBER	2CVA7AA-2		SR	VT-3	NRI
Insulation removed for exam.							
F-A	F1.10	2CVB7A-3/2CV06005X SEISMIC	2CVB7A-3			VT-3	NRI
NONE							

Component Support Outage Summary

SYSTEM: Feedwater System (FW)

Section XI Cat.	Item	Component ID Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Comments							
F-A	F1.20	2FW03DA-16/2FW02016S SNUBBER	2FW03DA-16		SR	VT-3	NRI
F-A	F1.20	2FW03DA-16/2FW02020X SEISMIC	2FW03DA-16			VT-3	NRI
NONE							
F-A	F1.20	2FW03DB-16/2FW03017S SNUBBER	2FW03DB-16		SR	VT-3	NRI
INSULATION REMOVED FOR EXAM							
F-A	F1.20	2FW03DD-16/2FW05022S SNUBBER	2FW03DD-16		SR	VT-3	NRI
F-A	F1.20	2FW81AA-6/2AF06038R RIGID	2FW81AA-6			VT-3	NRI
NONE							
F-A	F1.20	2FW81BA-6/2AF06040V VARIABLE	2FW81BA-6			VT-3	NRI
F-A	F1.20	2FW87CC-6/2FW08005S SNUBBER	2FW87CC-6		SR	VT-3	NRI
GRADING REMOVED FOR EXAM							

Component Support Outage Summary

SYSTEM: Main Steam System (MS)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.20	2MS07AA-28/2MS01205X SEISMIC	2MS07AA-28			VT-3	NRI
NONE							
F-A	F1.20	2MS07AC-28/2MS01101S SNUBBER	2MS07AC-28		DBL SR	VT-3	NRI
* S/N# 13772 (S1) 3-7/8" - S/N# 13785 (S2) 3-5/8"							

Component Support Outage Summary

SYSTEM: Reactor Coolant System (RC)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.10	2RC14AB-2/2CV15016V VARIABLE	2RC14AB-2			VT-3	NRI
F-A	F1.10	2RC14AD-2/2CV25019S SNUBBER	2RC14AD-2		SR	VT-3	NRI
Insulation removed for exam, snubber was removed for functional testing at time of exam. Pipe clamp and structural steel examined.Snubber exam performed on report 2010-EPP-025.							
F-A	F1.10	2RC14AD-2/2CV25020S SNUBBER	2RC14AD-2		SR	VT-3	NRI
Insulation removed for exam, snubber was removed for functional testing at time of exam. Pipe clamp and structural steel examined. Snubber exam performed on report 2010-EPP-023.							
F-A	F1.10	2RC14AD-2/2CV25024S SNUBBER	2RC14AD-2		SR	VT-3	NRI
Insulation removed for exam, snubber was removed for functional testing at time of exam. Pipe clamp and structural steel examined. Snubber exam performed on report 2010-EPP-026.							
F-A	F1.10	2RC22AA-1.5/2RC16001S SNUBBER	2RC22AA-1-1/2		SR	VT-3	NRI
INSULATION REMOVED FOR EXAM							

Component Support Outage Summary

SYSTEM: Residual Heat Removal System (RH)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.20	2RH01CA-16/2SI06259X SEISMIC	2RH01CA-16			VT-3	NRI
Comments: No indication detected							

Component Support Outage Summary

SYSTEM: Reactor Coolant System (RY)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Comments							
F-A	F1.40	2RY-01-S/SKT PRESSURIZER SKIRT	2RY-01-S			VT-3	NRI
F-A	F1.10	2RY18A-2/2RY06114S SNUBBER	2RY18A-2		SR	VT-3	NRI
INSULATION REMOVED FOR EXAM							

Component Support Outage Summary

SYSTEM: Safety Injection System (SI)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.20	2SI04B-12/2RH02109X SEISMIC	2SI04B-12			VT-3	NRI
F-A	F1.20	2SI04B-12/2RH02110X SEISMIC	2SI04B-12			VT-3	NRI
F-A	F1.10	2SI04D-8/2RH02020X SEISMIC	2SI04D-8			VT-3	NRI
F-A	F1.20	2SI05CA-8/2SI01024X SEISMIC	2SI05CA-8			VT-3	NRI
F-A	F1.20	2SI05CA-8/2SI01040X SEISMIC	2SI05CA-8			VT-3	NRI
F-A	F1.20	2SI06BA-24/2SI06260X SEISMIC	2SI06BA-24			VT-3	NRI
No indication detected							
F-A	F1.20	2SI06BA-24/2SI06261X SEISMIC	2SI06BA-24			VT-3	NRI
No indication detected							
F-A	F1.10	2SI08FA-3/2SI21014X SEISMIC	2SI08FA-3			VT-3	NRI
F-A	F1.10	2SI08HA-2/2SI25009X SEISMIC	2SI08HA-2			VT-3	NRI

Component Support Outage Summary

SYSTEM: Essential Service Water System (SX)

Section XI Cat.	Item	Component ID Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Comments							
F-A	F1.20	2SX06CA-14/2SX06009X SEISMIC	2SX06CA-14			VT-3	NRI
F-A	F1.20	2SX06EC-10/2SX06023A ANCHOR	2SX06EC-10			VT-3	NRI
INSIDE RCFC PLENIUM							
F-A	F1.20	2SX07EB-14/2SX09015X SEISMIC	2SX07EB-14			VT-3	NRI

Snubber Outage Summary

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SYSTEM: Auxiliary Feedwater System (AF)

Section XI Cat.	Section XI Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.20	2FW87BC-3/2FW10001S SNUBBER	2FW87BC-3		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Containment Spray System (CS)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Comments							
F-A	F1.20	2CS02AB-10/2CS03B018S SNUBBER	2CS02AB-10		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Chemical & Volume Control System (CV)

Section XI Cat.	Section XI Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
NA	NA	2CV10B-3/2CV04002S SNUBBER	2CV10B-3		SR	VT-3 FT	NRI PASS
NA	NA	2CV10B-3/2CV04012S SNUBBER	2CV10B-3		SR	VT-3 FT	NRI PASS
NA	NA	2CV10CA-3/2CV22002S SNUBBER	2CV10CA-3		SR	VT-3 FT	NRI PASS
NA	NA	2CV15AC-3/4/2CV29002S SNUBBER	2CV15AC-3/4		SR	VT-3 FT	NRI PASS
NA	NA	2CVB7BA-3/2CV23005S SNUBBER	2CVB7BA-3		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Feedwater System (FW)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Comments							
F-A	F1.20	2FW03DA-16/2FW02012S SNUBBER	2FW03DA-16		SR	VT-3	NRI
F-A	F1.20	2FW87CC-6/2FW08005S SNUBBER	2FW87CC-6		SR	VT-3 FT	NRI PASS
F-A	F1.20	2FW87CC-6/2FW08006S SNUBBER	2FW87CC-6		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Main Steam System (MS)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
N/A	SNUB	2MS01AC-32.75/2MS07006-S1 SNUBBER	2MS01AC-32.75		DBL SR	VT-3 FT	NRI PASS
N/A	SNUB	2MS01AC-32.75/2MS07006-S2 SNUBBER	2MS01AC-32.75		DBL SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat.	Section XI Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.40	2RC01BA-2A/2RC01BA-A SNUBBER	2RC01BA-2A		SR	VT-3	NRI
F-A	F1.40	2RC01BA-2A/2RC01BA-B SNUBBER	2RC01BA-2A		SR	VT-3	NRI
F-A	F1.40	2RC01BB-2B/2RC01BB-A SNUBBER	2RC01BB-2B		SR	VT-3 FT	NRI PASS
F-A	F1.40	2RC01BB-2B/2RC01BB-B SNUBBER	2RC01BB-2B		SR	VT-3	NRI
F-A	F1.40	2RC01BC-2C/2RC01BC-A SNUBBER SNUBBER	2RC01BC-2C		SR	VT-3 FT	NRI FAIL
F-A	F1.40	2RC01BC-2C/2RC01BC-B SNUBBER SNUBBER	2RC01BC-2C		SR	VT-3 FT	NRI PASS
F-A	F1.40	2RC01BD-2D/2RC01BD-A SNUBBER	2RC01BD-2D		SR	VT-3	NRI
F-A	F1.40	2RC01BD-2D/2RC01BD-B SNUBBER	2RC01BD-2D		SR	VT-3	NRI
NA	NA	2RC08AA-3/4/2RC16009S SNUBBER	2RC08AA-3/4		SR	VT-3 FT	NRI PASS
F-A	F1.10	2RC13AB-2/2CV15002S SNUBBER	2RC13AB-2		SR	VT-3 FT	NRI PASS
F-A	F1.10	2RC14AD-2/2CV25019S SNUBBER	2RC14AD-2		SR	VT-3 FT	NRI PASS
F-A	F1.10	2RC14AD-2/2CV25020S SNUBBER	2RC14AD-2		SR	VT-3 FT	NRI PASS
F-A	F1.10	2RC14AD-2/2CV25024S SNUBBER	2RC14AD-2		SR	VT-3 FT	NRI PASS
F-A	F1.10	2RC22AA-1.5/2RC16011S SNUBBER	2RC22AA-1-1/2		SR	VT-3 FT	NRI PASS
F-A	F1.10	2RC22AB-1.5/2RC17015S SNUBBER	2RC22AB-1-1/2		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Reactor Coolant System (RC)

Section XI Cat.	Section XI Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
NA	NA	2RC48BB-1/2/2RC90B008S SNUBBER	2RC48BB-1/2		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Residual Heat Removal System (RH)

Section XI Cat.	Section XI Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
F-A	F1.20	2RH02AA-8/2RH07003S SNUBBER	2RH02AA-8		SR	VT-3 FT	NRI PASS
F-A	F1.20	2RH02AA-8/2RH07012S SNUBBER	2RH02AA-8		SR	VT-3 FT	NRI PASS
NA	NA	2RH26AA-3/4/2RH02121S SNUBBER	2RH26AA-3/4		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Reactor Coolant System (RY)

Section XI Cat.	Section XI Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
N/A	SNUB	2RY01B-6/2RY06025-S1 SNUBBER	2RY01B-6		DBL SR	VT-3 FT	NRI PASS
N/A	SNUB	2RY01B-6/2RY06025-S2 SNUBBER	2RY01B-6		DBL SR	VT-3 FT	NRI PASS
F-A	F1.10	2RY02B-3/2RY09077S SNUBBER	2RY02B-3		SR	VT-3 FT	NRI PASS
NA	NA	2RY34AB-1/2/2RC92002S SNUBBER	2RY34AB-1/2		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Steam Generator Blowdown System (SD)

Section XI Cat.	Section XI Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
NA	NA	2SD01CB-2/2SD01005S SNUBBER	2SD01CB-2		SR	VT-3 FT	NRI PASS

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

Snubber Outage Summary

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SYSTEM: Safety Injection System (SI)

Section XI Cat.	Item	Component ID / Description	Line Number	Relief Requests	Technical Notes	Actual Exam	Results
Comments							
N/A	SNUB	2SI05DC-6/2SI09014-S1 SNUBBER	2SI05DC-6		DBL SR	VT-3 FT	NRI PASS
N/A	SNUB	2SI05DC-6/2SI09014-S2 SNUBBER	2SI05DC-6		DBL SR	VT-3 FT	NRI PASS

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

SECTION 3.0

(This report is used to verify that the periodic requirements of Tables IWx-2412-1 will be met by the interval schedule.)

BYRON STATION UNIT 2 - 3RD INTERVAL ASME SECTION XI EXAMINATION STATUS REPORT

(The percentage requirements of Tables IWx-2412-1 apply to the Category and were applied to each Item only when practical.)

Item No.	# of Comp	Total Selected	# Exams Completed Min	Per 1	Max	Min	Per 2	Max	Per 3	% Selected	% Exams Completed Period 1	Period 2	Period 3
Category B-A Non-Deferred Exams													
B1.30	1	1	0	1	1	1	0	1	0	100.00%	100.00%	100.00%	100.00%
B1.40	1	1	0	0	1	1	0	1	0	100.00%	0.00%	0.00%	0.00%
Totals:	**2**	**2**	**0**	**1**	**1**	**1**	**0**	**1**	**0**	**100.00%**	**50.00%**	**50.00%**	**50.00%**
Category B-A Deferred Exams													
B1.11	3	3	N/A	3	N/A	N/A	0	N/A	0	100.00%	100.00%	100.00%	100.00%
B1.21	2	2	N/A	1	N/A	N/A	0	N/A	0	100.00%	50.00%	50.00%	50.00%
Totals:	**5**	**5**	**N/A**	**4**	**N/A**	**N/A**	**0**	**N/A**	**0**	**100.00%**	**80.00%**	**80.00%**	**80.00%**

1. (B1.11 & B1.21) Examination completion exceeds 50.00% for 1st Period and 75.00% for this 2nd Period. The examinations were performed at the beginning of the Inspection Interval as allowed by Relief Request I3R-01.

Category B-B Non-Deferred Exams													
B2.11	2	2	0	0	1	1	1	1	0	100.00%	0.00%	50.00%	50.00%
B2.12	2	2	0	0	1	1	1	1	0	100.00%	0.00%	50.00%	50.00%
B2.40	4	1	0	1	1	1	0	1	0	25.00%	100.00%	100.00%	100.00%
Totals:	**8**	**5**	**1**	**1**	**2**	**2**	**2**	**2**	**0**	**62.50%**	**20.00%**	**65.00%**	**65.00%**

1. (B2.40) Per Examination Category B-B, Note 1, examinations may be limited to one vessel among a group of vessels performing a similar function.

Category B-D Non-Deferred Exams													
B3.110	6	6	1	1	3	2	3	3	0	100.00%	16.67%	66.67%	66.67%
B3.120	6	6	1	1	3	2	4	3	0	100.00%	16.67%	66.67%	66.67%
B3.140	8	8	2	4	4	0	0	2	0	100.00%	50.00%	50.00%	50.00%
Totals:	**20**	**20**	**4**	**6**	**10**	**4**	**7**	**9**	**0**	**100.00%**	**30.00%**	**65.00%**	**65.00%**

1. (B3.120 & B3.140) Per 10 CFR 50.55a(b)(2)(xxi)(A), Table IWB-2500-1 examination requirements, the provisions of Table IWB-2500-1, Examination Category B-D, Item Numbers B3.120 and B3.140 in the 1998 Edition must be applied when using the 1999 Addenda through the latest edition and addenda.

Category B-D Deferred Exams													
B3.90	8	8	N/A	8	N/A	N/A	0	N/A	0	100.00%	100.00%	100.00%	100.00%
B3.100	8	8	N/A	8	N/A	N/A	0	N/A	0	100.00%	100.00%	100.00%	100.00%
Totals:	**16**	**16**	**N/A**	**16**	**N/A**	**N/A**	**0**	**N/A**	**0**	**100.00%**	**100.00%**	**100.00%**	**100.00%**

1. (B3.100) This Item Number requires a visual examination with enhanced magnification in lieu of volumetric examination, as allowed by Code Case N-648-1.

Item No.	# of Comp	Total Selected	# Exams Completed							% Selected	% Exams Completed		
			Min	Per 1	Max	Min	Per 2	Max	Per 3		Period 1	Period 2	Period 3

2. (B3.90 & B3.100) Per Examination Category B-D, Note 5, for PWR's in the second and successive inspection intervals, these examinations may be deferred to the end of the interval provided no repair/replacement activities have been performed on the examination item, and no flaws or relevant conditions requiring successive inspections in accordance with IWB-2420(b) are contained in the examination item.
3. (B3.90 & B3.100) Examination completion exceeds 50.00% for 1st Period and 75.00% for this 2nd Period. The examination were performed at the beginning of the Inspection Interval as allowed by Relief Request I3R-01.

Category B-G-1 Deferred Exams

B6.10	3	3	N/A	3	N/A	N/A	0	N/A	0	100.00%	100.00%	100.00%	100.00%
B6.20	3	3	N/A	3	N/A	N/A	0	N/A	0	100.00%	100.00%	100.00%	100.00%
B6.40	1	1	N/A	0	N/A	N/A	0	N/A	0	100.00%	0.00%	0.00%	0.00%
B6.50	3	3	N/A	0	N/A	N/A	0	N/A	0	100.00%	0.00%	0.00%	0.00%
B6.170	1	1	N/A	0	N/A	N/A	0	N/A	0	100.00%	0.00%	0.00%	0.00%
B6.180	4	1	N/A	0	N/A	N/A	0	N/A	0	25.00%	0.00%	0.00%	0.00%
B6.190	4	0	N/A	0	N/A	N/A	0	N/A	0	0.00%	0.00%	0.00%	0.00%
B6.210	8	2	N/A	0	N/A	N/A	0	N/A	0	25.00%	0.00%	0.00%	0.00%
B6.220	8	0	N/A	0	N/A	N/A	0	N/A	0	0.00%	0.00%	0.00%	0.00%
B6.230	8	0	N/A	0	N/A	N/A	0	N/A	0	0.00%	0.00%	0.00%	0.00%
Totals:	**43**	**14**	**N/A**	**6**	**N/A**	**N/A**	**0**	**N/A**	**0**	**32.56%**	**42.86%**	**42.86%**	**42.86%**

1. (B6.10 & B6.20 & B6.50) Single components representing one third of the 54 Reactor Vessel Closure Head Nuts, Closure Studs, and Closure Washers, Bushings. The examinations were performed at the beginning of the Inspection Interval as allowed by Relief Request I3R-01.
2. (B6.40) A single component representing all of the 54 Reactor Vessel Threads in Flange to be examined.
3. (B6.170) A single component represents the five sets of CETC column nuts.
4. (B6.180) Four components are tracked in the database, each representing one of the 24 Bolts on one of the four Reactor Coolant Pumps (96 total) as reported in the ISI Program Plan. The volumetric examination of these components is limited to only one of the pumps per Examination Category B-G-1, Note 3 and Examination Category B-L-2, Note 1. Examination is required only once per inspection interval.
5. (B6.190) Four components are tracked in the database, each representing all 24 associated Flange Surfaces and Nuts, Bushings, and Washers for one of the four Reactor Coolant Pumps (96 total) as reported in the ISI Program Plan. The visual examination of these components is limited to only one of the pumps per Examination Category B-G-1, Note 3 and Examination Category B-L-2, Note 1. Also, per Examination Category B-G-1, Note 4 and Examination Category B-L-2, Note 2, examination is required only when a pump is disassembled for maintenance, repair, or volumetric examination or bolting is removed. Examination is required only once per inspection interval.
6. (B6.210) Eight components are tracked in the database, each representing all of the Bolts and associated Nuts, Bushings, and Washers and Flange Surfaces on one of the eight Reactor Coolant Valves as reported in the ISI Program Plan. The volumetric examination of these components is limited to only one of the valves per Examination Category B-G-1, Note 3 and Examination Category B-M-2, Note 3. Examination is required only once per inspection interval.

Item No.	# of Comp	Total Selected	# Exams Completed							% Selected	% Exams Completed		
			Min	Per 1	Max	Min	Per 2	Max	Per 3		Period 1	Period 2	Period 3

7. (B6.220 & B6.230) Eight components are tracked in the database, each representing all of the Bolts and associated Nuts, Bushings, and Washers and Flange Surfaces on one of the eight Reactor Coolant Valves as reported in the ISI Program Plan. The visual examination of these components is limited to only one of the valves per Examination Category B-G-1, Note 3 and Examination Category B-M-2, Note 3. Also, per Examination Category B-G-1, Note 4 and Examination Category B-M-2, Note 2, examination is required only when a valve is disassembled for maintenance, repair, or volumetric examination or bolting is removed. Examination is required only once per inspection interval.

Category B-G-2 Deferred Exams

B7.10	2	1	N/A	0	N/A	N/A	0	N/A	0	50.00%	0.00%	0.00%	0.00%
B7.20	1	0	N/A	0	N/A	N/A	0	N/A	0	0.00%	0.00%	0.00%	0.00%
B7.30	4	4	N/A	2	N/A	N/A	0	N/A	0	100.00%	50.00%	50.00%	50.00%
B7.50	20	5	N/A	3	N/A	N/A	1	N/A	0	25.00%	60.00%	80.00%	80.00%
B7.60	4	0	N/A	0	N/A	N/A	0	N/A	0	0.00%	0.00%	0.00%	0.00%
B7.70	26	1	N/A	1	N/A	N/A	0	N/A	0	3.85%	100.00%	100.00%	100.00%
Totals:	**57**	**11**	**N/A**	**6**	**N/A**	**N/A**	**1**	**N/A**	**0**	**19.30%**	**54.55%**	**63.64%**	**63.64%**

1. (B7.10) Two components representing the CETC and RVLIS Clamp Bolts and associated Nuts as reported in the ISI Program Plan.
2. (B7.20) A single component representing all 16 Pressurizer Manway Bolts and associated Nuts as reported in the ISI Program Plan.
3. (B7.30) Four components are tracked in the database, each representing all 32 Bolts and associated Nuts for both Manways on each of the four Steam Generator (128 total) as reported in the ISI Program Plan.
4. (B7.50) Per Examination Category B-G-2, Note 3, examination is required only when a bolted connection is disassembled or bolting is removed. Also, per Examination Category B-G-2, Note 3, examinations are limited to at least one bolted connection within each group of bolted connections that are similar in design, size, function, and service. Examination is required only once per inspection interval within each bolted connection group.
5. (B7.60) Four components are tracked in the database, each representing all 36 Bolts and associated Nuts for one of the four Reactor Coolant Pumps (144 total) as reported in the ISI Program Plan. Per Examination Category B-G-2, Note 2 and Examination Category B-L-2, Note 2, examination is required only when a pump is disassembled for maintenance, repair, or volumetric examination or bolting is removed. Also, per Examination Category B-G-2, Note 2 and Examination Category B-L-2, Note 1, examinations are limited to at least one pump within each group of pump that are of the same size, design, manufacturing method, and function. Examination is required only once per inspection interval within each valve group.
6. (B7.70) Per Examination Category B-G-2, Note 2 and Examination Category B-M-2, Note 2, examination is required only when a valve is disassembled for maintenance, repair, or volumetric examination or bolting is removed. Also, per Examination Category B-G-2, Note 2 and Examination Category B-M-2, Note 3, examinations are limited to at least one valve within each group of valves that are of the same size, design, manufacturing method, and function. Examination is required only once per inspection interval within each valve group.

(This report is used to verify that the periodic requirements of Tables IWx-2412-1 will be met by the interval schedule.)

BYRON STATION UNIT 2 - 3RD INTERVAL ASME SECTION XI EXAMINATION STATUS REPORT

(The percentage requirements of Tables IWx-2412-1 apply to the Category and were applied to each Item only when practical.)

Item No.	# of Comp	Total Selected	# Exams Completed Min	Per 1	Max	Min	Per 2	Max	Per 3	% Selected	% Exams Completed Period 1	Period 2	Period 3
Category B-K Non-Deferred Exams													
B10.10	2	2	0	0	1	1	0	1	0	100.00%	0.00%	00.00%	0.00%
B10.20	8	3	1	1	1	1	1	1	0	37.50%	33.33%	66.67%	66.67%
Totals:	**10**	**5**	**1**	**1**	**2**	**2**	**1**	**2**	**0**	**50.00%**	**20.00%**	**40.00%**	**40.00%**

1. (B10.10) Per Examination Category B-K, Note 4, for multiple vessels of similar design, function and service, only one welded attachment of only one of the multiple vessels shall be selected for examination. Conservatively, a welded attachment of each type of welded attachment of one of multiple vessels will be examined.
2. (B10.20) Per Examination Category B-K, Note 5, for piping, pumps, and valves, a sample of 10% of the welded attachments associated with the component supports selected for examination under IWF-2510 shall be examined. This requirement is conservatively interpreted to mean that 10% of the total

Category B-L-2 Deferred Exams													
B12.20	4	0	N/A	0	N/A	N/A	0	N/A	0	0.00%	0.00%	0.00%	0.00%
Totals:	**4**	**0**	**N/A**	**0**	**N/A**	**N/A**	**0**	**N/A**	**0**	**0.00%**	**0.00%**	**0.00%**	**0.00%**

1. (B12.20) The examination of pump casings is limited to only one of the pumps performing similar functions in the system per Examination Category B-L-2, Note 1. Also, per Examination Category B-L-2, Note 2, examination is required only when a pump is disassembled for maintenance, repair, or volumetric examination. Examination is required only once per inspection interval.

Category B-M-2 Deferred Exams													
B12.50	37	2	N/A	2	N/A	N/A	0	N/A	0	5.41%	100.00%	100.00%	100.00%
Totals:	**37**	**2**	**N/A**	**2**	**N/A**	**N/A**	**0**	**N/A**	**0**	**5.41%**	**100.00%**	**100.00%**	**100.00%**

1. (B12.50) Per Examination Category B-M-2, Note 2, examination is required only when a valve is disassembled for maintenance, repair, or volumetric examination. Also, per Examination Category B-M-2, Note 3, examinations are limited to at least one valve within each group of valves that are of the same size, design, manufacturing method, and function. Examination is required only once per inspection interval within each valve group.

Category B-N-1 Non-Deferred Exams													
B13.10	2	1	0	1	1	1	1	1	0	50.00%	100.00%	200.00%	200.00%
Totals:	**2**	**1**	**0**	**1**	**1**	**1**	**1**	**1**	**0**	**50.00%**	**100.00%**	**200.00%**	**200.00%**

1. (B13.10) "% Completed" exceeds 100% since the vessel interior is selected for examination once each period (three times during the interval).

(This report is used to verify that the periodic requirements of Tables IWx-2412-1 will be met by the interval schedule.)			**BYRON STATION UNIT 2 - 3RD INTERVAL ASME SECTION XI EXAMINATION STATUS REPORT**								(The percentage requirements of Tables IWx-2412-1 apply to the Category and were applied to each Item only when practical.)		
			# Exams Completed								**% Exams Completed**		
Item No.	**# of Comp**	**Total Selected**	**Min**	**Per 1**	**Max**	**Min**	**Per 2**	**Max**	**Per 3**	**% Selected**	**Period 1**	**Period 2**	**Period 3**
Category B-N-2 Deferred Exams													
B13.50	1	1	N/A	1	N/A	N/A	0	N/A	0	100.00%	100.00%	100.00%	100.00%
B13.60	1	1	N/A	1	N/A	N/A	0	N/A	0	100.00%	100.00%	100.00%	100.00%
Totals:	**2**	**2**	**N/A**	**2**	**N/A**	**N/A**	**0**	**N/A**	**0**	**100.00%**	**100.00%**	**100.00%**	**100.00%**

1. (B13.50 & B13.60) Examination completion exceeds 50.00% for 1st Period and 75.00% for this 2nd Period. The examination were performed at the beginning of the Inspection Interval as allowed by Relief Request I3R-01.

Category B-N-3 Deferred Exams													
B13.70	1	1	N/A	1	N/A	N/A	0	N/A	0	100.00%	100.00%	100.00%	100.00%
Totals:	**1**	**1**	**N/A**	**1**	**N/A**	**N/A**	**0**	**N/A**	**0**	**100.00%**	**100.00%**	**100.00%**	**100.00%**

1. (B13.70) Examination completion exceeds 50.00% for 1st Period and 75.00% for this 2nd Period. The examination were performed at the beginning of the Inspection Interval as allowed by Relief Request I3R-01.

Category B-O Deferred Exams													
B14.10	5	5	N/A	2	N/A	N/A	0	N/A	0	100.00%	40.00%	40.00%	40.00%
Totals:	**5**	**5**	**N/A**	**2**	**N/A**	**N/A**	**0**	**N/A**	**0**	**100.00%**	**40.00%**	**40.00%**	**40.00%**

1. (B14.10) 10% of the 45 CRD Housings (as reported in the ISI Program Plan) are required to be examined each interval per this Item Number. These 5 components represent that 10% population.

Category B-P Non-Deferred Exams													
B15.10	1	1	N/A	2	N/A	N/A	1	N/A	0	100.00%	200.00%	300.00%	0.00%
Totals:	**1**	**1**	**N/A**	**2**	**N/A**	**N/A**	**1**	**N/A**	**0**	**100.00%**	**200.00%**	**300.00%**	**0.00%**

1. (B15.10) "% Completed" exceeds 100% since Class 1 pressure tests are performed each refueling outage.
2. (B15.10) One component representing the five systems in Class 1 as reported in the ISI Program Plan.

Category C-A Non-Deferred Exams													
C1.10	14	3	1	1	1	1	0	1	0	21.43%	33.33%	33.33%	33.33%
C1.20	6	1	0	0	1	1	0	1	0	16.67%	0.00%	0.00%	0.00%
C1.30	4	1	0	1	1	1	0	1	0	25.00%	100.00%	100.00%	100.00%
Totals:	**24**	**5**	**1**	**2**	**2**	**1**	**0**	**1**	**0**	**20.83%**	**40.00%**	**40.00%**	**40.00%**

1. (C1.10 & C1.20) Per Examination Category C-A, Note 3, in the case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels.

(This report is used to verify that the periodic requirements of Tables IWx-2412-1 will be met by the interval schedule.)

BYRON STATION UNIT 2 - 3RD INTERVAL ASME SECTION XI EXAMINATION STATUS REPORT

(The percentage requirements of Tables IWx-2412-1 apply to the Category and were applied to each Item only when practical.)

Item No.	# of Comp	Total Selected	# Exams Completed							% Selected	% Exams Completed		
			Min	Per 1	Max	Min	Per 2	Max	Per 3		Period 1	Period 2	Period 3
Category C-B Non-Deferred Exams													
C2.21	16	3	1	1	1	1	0	1	0	18.75%	33.33%	33.33%	33.33%
C2.22	4	1	0	1	1	1	0	1	0	25.00%	100.00%	100.00%	100.00%
Totals:	**20**	**4**	**1**	**2**	**2**	**0**	**0**	**1**	**0**	**33.33%**	**50.00%**	**50.00%**	**50.00%**

1. (C2.21 & C2.22) Per Examination Category C-B, Note 4, in the case of multiple vessels of similar design, size, and service, the required examinations may be limited to one vessel or distributed among the vessels.
2. (C2.21) Two welds per item for the Residual Heat Removal Heat Exchanger are exempted from examination with the adoption of ASME Code Case N-706 (ref: I3T-08). The remaining welds in the items are for the four steam generators and are selected for examination under #1 above.

Category C-C Non-Deferred Exams													
C3.10	2	1	0	0	1	1	0	1	0	50.00%	0.00%	0.00%	0.00%
C3.20	76	8	2	1	4	3	3	5	0	10.53%	12.50%	50.00%	50.00%
C3.30	20	2	0	1	1	1	0	1	0	10.00%	50.00%	50.00%	50.00%
Totals:	**98**	**11**	**2**	**2**	**5**	**4**	**3**	**6**	**0**	**11.22%**	**18.18%**	**45.45%**	**45.45%**

1. (C3.10) Per Examination Category C-C, Note 4, for multiple vessels of similar design, function, and service, only one welded attachment of only one of the multiple vessels shall be selected for examination. Conservatively, a welded attachment of each type of welded attachment of one of multiple vessels will be examined.
2. (C3.20 & C3.30) Per Examination Category C-C, Note 5, for piping, pumps, and valves, a sample of 10% of the welded attachments associated with the component supports selected for examination under IWF-2510 shall be examined. This requirement is conservatively interpreted to mean that 10% of the total Class 2 welded attachments shall be examined. The interpretation is consistent with the previous NRC condition on the use of Code Case N-509.

Category C-H Non-Deferred Exams													
C7.10	49	49	N/A	49	N/A	N/A	12	N/A	0	100.00%	100.00%	124.49%	0.00%
Totals:	**49**	**49**	**N/A**	**49**	**N/A**	**N/A**	**12**	**N/A**	**0**	**100.00%**	**100.00%**	**124.49%**	**0.00%**

1. (C7.10) "% Completed" exceeds 100% since Class 2 pressure tests are performed each inspection period.
2. (C7.10) Forty-nine components representing the twenty-nine systems/ in Class 2 as reported in the ISI Program Plan.

(This report is used to verify that the periodic requirements of Tables IWx-2412-1 will be met by the interval schedule.)

BYRON STATION UNIT 2 - 3RD INTERVAL ASME SECTION XI EXAMINATION STATUS REPORT

(The percentage requirements of Tables IWx-2412-1 apply to the Category and were applied to each Item only when practical.)

Item No.	# of Comp	Total Selected	# Exams Completed							% Selected	% Exams Completed		
			Min	Per 1	Max	Min	Per 2	Max	Per 3		Period 1	Period 2	Period 3
Category F-A Non-Deferred Exams													
F1.10	467	120	20	31	60	29	18	59	0	25.70%	25.83%	40.83%	40.83%
F1.20	659	109	18	25	54	30	23	56	0	16.54%	22.94%	44.04%	44.04%
F1.30	370	41	7	9	20	12	9	21	0	11.08%	21.95%	43.90%	43.90%
F1.40	70	32	6	6	16	10	1	18	0	45.71%	18.75%	21.88%	21.88%
Totals:	**1566**	**302**	**49**	**71**	**151**	**80**	**51**	**155**	**0**	**19.28%**	**23.51%**	**40.40%**	**40.40%**

1. (F1.40) Per Examination Category F-A, Note 3, for multiple components other than piping within a system of similar design, function, and service, the supports of only one of the multiple components are required to be examined.
2. (F1.30 & F1.40) Class 3 components included in table. IWF-2410 completion percentage applies to entire Examination Category.

Category R-A Non-Socket Welds													
1	242	61	10	23	30	8	6	22	0	25.21%	37.70%	47.54%	47.54%
2	130	39	7	20	19	0	5	9	0	30.00%	51.28%	64.10%	64.10%
4	1364	140	23	36	70	34	2	69	0	10.26%	25.71%	27.14%	27.14%
5	71	9	2	7	4	-2	0	-1	0	12.68%	77.78%	77.78%	77.78%
Totals:	**1807**	**249**	**40**	**86**	**124**	**39**	**13**	**100**	**0**	**13.78%**	**34.54%**	**39.76%**	**39.76%**

1. (BER Welds) The # of Comp and # Selected include all BER welds which have been integrated into the RISI Program and are selected in accordance with the Risk Informed BER methodology.

Category R-A Socket Welds													
2	84	26	N/A	52	N/A	N/A	26	N/A	0	30.95%	200.00%	300.00%	300.00%
4	172	21	N/A	42	N/A	N/A	21	N/A	0	12.21%	200.00%	300.00%	300.00%
5	334	32	N/A	64	N/A	N/A	32	N/A	0	9.58%	200.00%	300.00%	300.00%
Totals:	**590**	**79**	**N/A**	**158**	**N/A**	**N/A**	**79**	**N/A**	**0**	**13.39%**	**200.00%**	**300.00%**	**300.00%**

1. Socket welds for Examination Category R-A piping structural elements are listed separately from butt welds because socket welds are selected for examination in "each" refueling outage. Including socket welds in the # of Comp, Total Selected, and # Selected fields with the butt welds would misrepresent the % completed distributions for the remainder of the Examination Category. The "% Completed" exceeds 100% since they are examined each outage per ASME Code Case N-578-1, Table 1, footnote 12.

SECTION 4.0

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

1. **Owner:** Exelon Generation Company,(EGC,LLC), 4300 Winfield Road, Warrenville, Illinois 60555
(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Auxiliary Feedwater System (AF)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-AF-2-1	Hunter Corporation	N/A	N/A	N/A
2-AF-2-2	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

1. **Owner:** Exelon Generation Company,(EGC,LLC), 4300 Winfield Road, Warrenville, Illinois 60555
(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Auxiliary Feedwater System (AF)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2FW87BC-3/2FW10001S	Pacific Scientific	12034	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

1. **Owner:** Exelon Generation Company,(EGC,LLC), 4300 Winfield Road, Warrenville, Illinois 60555
(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Containment Spray System (CS)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-CS-2-1	Hunter Corporation	N/A	N/A	N/A
2-CS-2-2	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

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(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Containment Spray System (CS)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2CS06AA-6/2CS06033A	HUNTER	N/A	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Containment Spray System (CS)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2CS02AA-10/2CS03A007S	Pacific Scientific	16636	NA	NA
2CS02AB-10/2CS03B018S	Pacific Scientific	9178	NA	NA

2

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Chemical & Volume Control System (CV)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-CV-2-1	Hunter Corporation	N/A	N/A	N/A
2-CV-2-10	Hunter Corporation	N/A	N/A	N/A
2-CV-2-2	Hunter Corporation	N/A	N/A	N/A
2-CV-2-3	Hunter Corporation	N/A	N/A	N/A
2-CV-2-4	Hunter Corporation	N/A	N/A	N/A
2-CV-2-5	Hunter Corporation	N/A	N/A	N/A
2-CV-2-6	Hunter Corporation	N/A	N/A	N/A
2-CV-2-7	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Chemical & Volume Control System (CV)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2CV05CB-6/2CV08007V	HUNTER	N/A	NA	NA
2CV09A-4/2CV01A064X	HUNTER	N/A	NA	NA
2CV45B-2/2CV22007X	HUNTER	N/A	NA	NA
2CV45B-2/2CV22008X	HUNTER	N/A	NA	NA
2CV45B-2/2CV22010X	HUNTER	N/A	NA	NA
2CV45B-2/2CV22011X	HUNTER	N/A	NA	NA
2CV45B-2/2CV22016A	HUNTER	N/A	NA	NA
2CVB7A-3/2CV06005X	HUNTER	N/A	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Chemical & Volume Control System (CV)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2CVA3B-2/W-70	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA3B-2/W-71	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA3B-2/W-72	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA3B-2/W-73	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA3B-2/W-80	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA3B-2/W-81	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA5AA-2/W-06	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA5AA-2/W-07	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA6AA-2/W-04	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA6AA-2/W-05	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA7AA-2/W-06	Hunter Corp.	2-CV-1-N5	NA	NA
2CVA7AA-2/W-07	Hunter Corp.	2-CV-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Chemical & Volume Control System (CV)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2CVA7AA-2/W-08	Hunter Corp.	2-CV-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Chemical & Volume Control System (CV)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.	
2CV10B-3/2CV04002S	Lisega	01615143/008	NA	NA	
2CV10B-3/2CV04012S	Lisega	02615163/012	NA	NA	
2CV10CA-3/2CV22002S	Pacific Scientific	7738	NA	NA	
2CV10DB-3/2CV02009S	Pacific Scientific	2184	NA	NA	2
2CV15AC-3/4/2CV29002S	Pacific Scientific	23855	NA	NA	
2CVA6AA-2/2CV09026S	Pacific Scientific	4099	NA	NA	2
2CVA7AA-2/2CV25012S	Pacific Scientific	8084	NA	NA	2
2CVB7BA-3/2CV23005S	Pacific Scientific	1575	NA	NA	

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Fuel Pool Cooling System (FC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-FC-2-1	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Feedwater System (FW)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-FW-2-2	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Feedwater System (FW)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2FW03DA-16/2FW02020X	HUNTER	N/A	NA	NA
2FW81AA-6/2AF06038R	HUNTER	N/A	NA	NA
2FW81BA-6/2AF06040V	HUNTER	N/A	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Feedwater System (FW)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2FW03DA-16/C01	Hunter Corp.	2-FW-5-N5	NA	NA
2FW03DA-16/C02	Hunter Corp.	2-FW-5-N5	NA	NA
2FW81BA-6/C07	Hunter Corp.	2-FW-5-N5	NA	NA
2FW87CA-6/C01	Hunter Corp.	2-FW-5-N5	NA	NA
2FW87CA-6/C02	Hunter Corp.	2-FW-5-N5	NA	NA
2FW87CA-6/C03	Hunter Corp.	2-FW-5-N5	NA	NA
2FW87CA-6/C04	Hunter Corp.	2-FW-5-N5	NA	NA

Note (1): Baseline Examination

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Feedwater System (FW)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.	
2FW03DA-16/2FW02012S	Pacific Scientific	2565	NA	NA	
2FW03DA-16/2FW02016S	Pacific Scientific	8270	NA	NA	2
2FW03DB-16/2FW03017S	Pacific Scientific	4794	NA	NA	2
2FW03DD-16/2FW05022S	Pacific Scientific	8201	NA	NA	2
2FW87CC-6/2FW08005S	Pacific Scientific	19389	NA	NA	2
2FW87CC-6/2FW08006S	Pacific Scientific	20613	NA	NA	

Note (1): Baseline Examination

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Main Steam System (MS)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-MS-2-1	Hunter Corporation	N/A	N/A	N/A
2-MS-2-2	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Main Steam System (MS)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2MS07AA-28/2MS01205X	HUNTER	N/A	NA	NA
2MS07AC-28/2MS01101S	PACIFIC SCIENTIFIC	13785 / 13772	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Main Steam System (MS)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2MS01AC-32.75/2MS07006-S1	Pacific Scientific	10537	NA	NA
2MS01AC-32.75/2MS07006-S2	Pacific Scientific	10536	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Off Gas System (OG)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-OG-2-1	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Process Sampling System (PS)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-PS-2-3	Hunter Corporation	N/A	N/A	N/A
2-PS-2-4	Hunter Corporation	N/A	N/A	N/A
2-PS-2-5	Hunter Corporation	N/A	N/A	N/A
2-PS-2-6	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Pressurizer (PZR)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RY-01-S/PC-05	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PL-04	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-02	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-02-NIR	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-03	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-03-NIR	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-05-NIR	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-06	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-06-NIR	Westinghouse Corp.	1741	U-201441	W13582

Note (1): Baseline Examination

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-RC-1-1	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

1. **Owner:** Exelon Generation Company,(EGC,LLC), 4300 Winfield Road, Warrenville, Illinois 60555
(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC14AB-2/2CV15016V	HUNTER	N/A	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC01AA-29/J06	Hunter Corp.	2-RC-1-N5	NA	NA
2RC-01-R/RPVS-A F1	Westinghouse Corp.	640-0012-51	B-09062	N-200
2RC-01-R/RPVS-D F1	Westinghouse Corp.	640-0012-51	B-09062	N-200
2RC-01-R/RPVS-E F1	Westinghouse Corp.	640-0012-51	B-09062	N-200
2RC-01-R/RPVS-F F1	Westinghouse Corp.	640-0012-51	B-09062	N-200
2RC-01-R/RPVS-H F1	Westinghouse Corp.	640-0012-51	B-09062	N-200
2RC03AA-27.5/J02A	Hunter Corp.	2-RC-1-N5	NA	NA
2RC03AA-27.5/J04	Hunter Corp.	2-RC-1-N5	NA	NA
2RC13AA-2/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC13AA-2/W-02	Hunter Corp.	2-RC-1-N5	NA	NA
2RC13AA-2/W-03	Hunter Corp.	2-RC-1-N5	NA	NA
2RC13AA-2/W-04	Hunter Corp.	2-RC-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC13AA-2/W-05	Hunter Corp.	2-RC-1-N5	NA	NA
2RC13AB-2/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC13AC-2/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC13AD-2/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-01A	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-01B	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-01C	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-02	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-03	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-04	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-05	Hunter Corp.	2-RC-1-N5	NA	NA

Note (1): Baseline Examination

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC14AA-2/W-06	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-07	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-08	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-09	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-10	Hunter Corp.	2-RC-1-N5	NA	NA
2RC14AA-2/W-11	Hunter Corp.	2-RC-1-N5	NA	NA
2RC16AA-2/W-03	Hunter Corp.	2-RC-1-N5	NA	NA
2RC16AA-2/W-04	Hunter Corp.	2-RC-1-N5	NA	NA
2RC16AA-2/W-05	Hunter Corp.	2-RC-1-N5	NA	NA
2RC16AA-2/W-06	Hunter Corp.	2-RC-1-N5	NA	NA
2RC16AA-2/W-07	Hunter Corp.	2-RC-1-N5	NA	NA
2RC16AB-2/W-04	Hunter Corp.	2-RC-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC16AB-2/W-05	Hunter Corp.	2-RC-1-N5	NA	NA
2RC16AC-2/W-08	Hunter Corp.	2-RC-1-N5	NA	NA
2RC16AD-2/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC22AA-1.5/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC22AA-1.5/W-05	Hunter Corp.	2-RC-1-N5	NA	NA
2RC22AC-1.5/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC22AC-1.5/W-06	Hunter Corp.	2-RC-1-N5	NA	NA
2RC22AD-1.5/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC22AD-1.5/W-08	Hunter Corp.	2-RC-1-N5	NA	NA
2RC26A-2/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC26A-2/W-02	Hunter Corp.	2-RC-1-N5	NA	NA
2RC28A-3/Zone 1	Hunter Corp.	2-RC-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC30AA-1.5/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RC35AA-6/J02	Hunter Corp.	2-RC-1-N5	NA	NA
2RC35AA-6/J03	Hunter Corp.	2-RC-1-N5	NA	NA
2RC35AA-6/J04	Hunter Corp.	2-RC-1-N5	NA	NA
2RC35AA-6/J05	Hunter Corp.	2-RC-1-N5	NA	NA
2RC37A-3/Zone 2	Hunter Corp.	2-RC-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.	
2RC01BA-2A/2RC01BA-A	Boeing	27	NA	NA	
2RC01BA-2A/2RC01BA-B	Boeing	35	NA	NA	
2RC01BB-2B/2RC01BB-A	Boeing	9	NA	NA	
2RC01BB-2B/2RC01BB-B	Boeing	15	NA	NA	
2RC01BC-2C/2RC01BC-A	Boeing	19	NA	NA	
2RC01BC-2C/2RC01BC-B	Boeing	7	NA	NA	
2RC01BD-2D/2RC01BD-A	Boeing	5	NA	NA	
2RC01BD-2D/2RC01BD-B	Boeing	31	NA	NA	
2RC08AA-3/4/2RC16009S	Pacific Scientific	14672	NA	NA	
2RC13AB-2/2CV15002S	Pacific Scientific	8034	NA	NA	
2RC14AD-2/2CV25019S	Pacific Scientific	3105	NA	NA	2
2RC14AD-2/2CV25020S	Pacific Scientific	17595	NA	NA	2

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RC)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.	
2RC14AD-2/2CV25024S	Pacific Scientific	8040	NA	NA	2
2RC22AA-1.5/2RC16001S	Pacific Scientific	12848	NA	NA	2
2RC22AA-1.5/2RC16011S	Pacific Scientific	2928	NA	NA	
2RC22AB-1.5/2RC17015S	Pacific Scientific	9917	NA	NA	
2RC48BB-1/2/2RC90B008S	Pacific Scientific	3134	NA	NA	

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Residual Heat Removal System (RH)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-RH-2-1	Hunter Corporation	N/A	N/A	N/A
2-RH-2-2	Hunter Corporation	N/A	N/A	N/A
2-RH-2-3	Hunter Corporation	N/A	N/A	N/A
2-RH-2-6	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Residual Heat Removal System (RH)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RH01CA-16/2SI06259X	HUNTER	N/A	NA	N/A

Note (1): Baseline Examination

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Residual Heat Removal System (RH)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RH01BA-12/C03	Hunter Corp.	2-RH-2-N5	NA	NA
2RH02AA-8/C47	Hunter Corp.	2-RH-2-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Residual Heat Removal System (RH)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RH02AA-8/2RH07003S	Pacific Scientific	12105	NA	NA
2RH02AA-8/2RH07012S	Pacific Scientific	15103	NA	NA
2RH26AA-3/4/2RH02121S	Pacific Scientific	8077	NA	NA

Note (1): Baseline Examination

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Pressure Vessel (RPV)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC-01-R/RPV BMI	Westinghouse Corp.	640-0012-51	B-09062	N-200
2RC-01-R/RPV HEAD PEN	Westinghouse Corp.	640-0012-52	B-09062	N-200
2RC-01-R/RPV HEAD SURF	Westinghouse Corp.	640-0012-52	B-09062	N-200
2RC-01-R/RPV INTERIOR	Westinghouse Corp.	640-0012-51	B-09062	N-200

Note (1): Baseline Examination

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RY)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.	
2RY03BC-6/FLG 1-12	Hunter Corp.	2-RC-1-N5	NA	NA	1
2RY76A-2/FLG 1-8	Hunter Corp.	2-RC-1-N5	NA	NA	1

Note (1): Baseline Examination

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3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RY)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RY-01-S/SKT	HUNTER	N/A	NA	NA

Note (1): Baseline Examination

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5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RY)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RY01B-6/J28	Hunter Corp.	2-RC-1-N5	NA	NA
2RY01B-6/J29	Hunter Corp.	2-RC-1-N5	NA	NA
2RY01B-6/J30	Hunter Corp.	2-RC-1-N5	NA	NA
2RY01C-4/J01S	Westinghouse Corp.	2-RC-1-N5	NA	NA
2RY-01-S/PN-01-F1S	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-02-F2S	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-03-F3S	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-04-F4S	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-05-F5S	Westinghouse Corp.	1741	U-201441	W13582
2RY-01-S/PN-06-F6S	Westinghouse Corp.	1741	U-201441	W13582
2RY02A-6/J01S	Westinghouse Corp.	2-RC-1-N5	NA	NA
2RY03AA-6/J01S	Westinghouse Corp.	2-RC-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

1. **Owner:** Exelon Generation Company,(EGC,LLC), 4300 Winfield Road, Warrenville, Illinois 60555
(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RY)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RY03AB-6/J01S	Westinghouse Corp.	2-RC-1-N5	NA	NA
2RY03AC-6/J01S	Westinghouse Corp.	2-RC-1-N5	NA	NA
2RY11A-14/J01S	Hunter Corp.	2-RC-1-N5	NA	NA
2RY18A-2/W-01	Hunter Corp.	2-RC-1-N5	NA	NA
2RY18A-2/W-02	Hunter Corp.	2-RC-1-N5	NA	NA
2RY18A-2/W-03	Hunter Corp.	2-RC-1-N5	NA	NA
2RY18A-2/W-04	Hunter Corp.	2-RC-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Reactor Coolant System (RY)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RY01B-6/2RY06025-S1	Pacific Scientific	9655	NA	NA
2RY01B-6/2RY06025-S2	Pacific Scientific	9558	NA	NA
2RY02B-3/2RY09077S	Hunter Corp.	23126	NA	NA
2RY18A-2/2RY06114S	Pacific Scientific	4356	NA	NA
2RY34AB-1/2/2RC92002S	Pacific Scientific	27591	NA	NA

2

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

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2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Steam Generator Blowdown System (SD)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2SD01CB-2/2SD01005S	Lisega	03615873/010	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

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(Name and Address of Owner)

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Steam Generator (SG)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC-01-BA/BLT 1-32	Westinghouse Corp.	2095	U-201435	15

1

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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Computer Generated Form

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2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Steam Generator (SG)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2RC-01-BA/DRAIN	Westinghouse Corp.	2095	U-201435	15
2RC-01-BB/DRAIN	Westinghouse Corp.	2096	U-201436	16
2RC-01-BC/DRAIN	Westinghouse Corp.	2097	U-201437	17
2RC-01-BD/DRAIN	Westinghouse Corp.	2098	U-201438	18

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

1. **Owner:** Exelon Generation Company,(EGC,LLC), 4300 Winfield Road, Warrenville, Illinois 60555
(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Safety Injection System (SI)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2SI08HA-2/FLG 1-8	Hunter Corp.	2-SI-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Computer Generated Form

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

1. **Owner:** Exelon Generation Company,(EGC,LLC), 4300 Winfield Road, Warrenville, Illinois 60555
(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Safety Injection System (SI)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-SI-2-1	Hunter Corporation	N/A	N/A	N/A
2-SI-2-2	Hunter Corporation	N/A	N/A	N/A
2-SI-2-3	Hunter Corporation	N/A	N/A	N/A
2-SI-2-4	Hunter Corporation	N/A	N/A	N/A
2-SI-2-5	Hunter Corporation	N/A	N/A	N/A
2-SI-2-6	Hunter Corporation	N/A	N/A	N/A
2-SI-2-7	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Safety Injection System (SI)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2SI04B-12/2RH02109X	HUNTER	N/A	NA	NA
2SI04B-12/2RH02110X	HUNTER	N/A	NA	NA
2SI04D-8/2RH02020X	HUNTER	N/A	NA	NA
2SI05CA-8/2SI01024X	HUNTER	N/A	NA	NA
2SI05CA-8/2SI01040X	HUNTER	N/A	NA	NA
2SI06BA-24/2SI06260X	HUNTER	N/A	NA	NA
2SI06BA-24/2SI06261X	HUNTER	N/A	NA	NA
2SI08FA-3/2SI21014X	HUNTER	N/A	NA	NA
2SI08HA-2/2SI25009X	HUNTER	N/A	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 of this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Safety Injection System (SI)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2SI03DA-2/W-08A	Hunter Corp.	2-SI-1-N5	NA	NA
2SI04B-12/C02	Hunter Corp.	2-SI-2-N5	NA	NA
2SI05BA-8/C02	Hunter Corp.	2-SI-2-N5	NA	NA
2SI08HA-2/W-01	Hunter Corp.	2-SI-1-N5	NA	NA
2SI08HA-2/W-02	Hunter Corp.	2-SI-1-N5	NA	NA
2SI08HA-2/W-03	Hunter Corp.	2-SI-1-N5	NA	NA
2SI08HA-2/W-04	Hunter Corp.	2-SI-1-N5	NA	NA
2SI08HA-2/W-05	Hunter Corp.	2-SI-1-N5	NA	NA
2SI08HA-2/W-06	Hunter Corp.	2-SI-1-N5	NA	NA
2SI08JA-1.5/W-01	Hunter Corp.	2-SI-1-N5	NA	NA
2SI08JA-1.5/W-02	Hunter Corp.	2-SI-1-N5	NA	NA
2SI08JA-1.5/W-03	Hunter Corp.	2-SI-1-N5	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Safety Injection System (SI)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.	
2SI08JA-1.5/W-04	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-05	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-05A	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-05B	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-06	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-07	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-10	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-11	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-14	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI08JA-1.5/W-15	Hunter Corp.	2-SI-1-N5	NA	NA	
2SI18FC-2/W-01.02	Exelon Corp.	2-SI-1-N5	NA	NA	1
2SI18FC-2/W-01A.01	Exelon Corp.	2-SI-1-N5	NA	NA	1

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Safety Injection System (SI)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2SI18FC-2/W-01B.01	Exelon Corp.	2-SI-1-N5	NA	NA

1

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Safety Injection System (SI)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2SI05DC-6/2SI09014-S1	Pacific Scientific	20565	NA	NA
2SI05DC-6/2SI09014-S2	Pacific Scientific	20555	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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As Required by the Provisions of the ASME Code Rules

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(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Essential Service Water System (SX)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2-SX-2-1	Hunter Corporation	N/A	N/A	N/A
2-SX-2-2	Hunter Corporation	N/A	N/A	N/A

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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As Required by the Provisions of the ASME Code Rules

1. **Owner:** Exelon Generation Company,(EGC,LLC), 4300 Winfield Road, Warrenville, Illinois 60555
(Name and Address of Owner)

2. **Plant:** Byron Nuclear Power Station, 4450 North German Church Road, Byron, Illinois 61010
(Name and Address of Plant)

3. **Plant Unit:** 2 4. **Owner Certificate Of Authorization (if required):** N/A

5. **Commercial Service Date:** 08/22/87 6. **National Board Number for Unit:** N-200

7. **Components Inspected:** Essential Service Water System (SX)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
2SX06CA-14/2SX06009X	HUNTER	N/A	NA	NA
2SX06EC-10/2SX06023A	HUNTER	N/A	NA	NA
2SX07EB-14/2SX09015X	HUNTER	N/A	NA	NA

Note (1): Baseline Examination

Note (2): Snubber examined as a Component Support

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code Rules

(BACK)

8. **Examination Dates:** 10/24/08 **to** 05/08/10
9. **Inspection Period Identification:** First Inspection Period
10. **Inspection Interval Identification:** Third Inspection Interval
11. **Applicable Edition of Section XI:** 2001 **Addenda** 2003
12. **Date / Revision of Inspection Plan:** 08/15/09 / 4
13. **Abstract of Examinations and Test. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.**
    Refer to the Outage Summary Report and ISI Program Plan
14. **Abstract of Results of Examinations and Tests.**
    Refer to the Outage Summary Report
15. **Abstract of Corrective Measures.**
    Refer to the Outage Summary Report

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): N/A Expiration Date: N/A

Date: 07/29/10 Signed for: Exelon Generation Company

By: [signature]

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 **HSB CT of Hartford CT.** have inspected the components described in this Owner's Report during the period **10/24/08** to **05/08/10**, 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 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, 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]
Inspectors Signature

Commissions: **ILL-1254** Date: July 29, 20 10

National Board, State, Province, and Endorsements

SECTION 5.0

DOCUMENT NO.: 2.2

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

1. Owner **Exelon Nuclear** (Name) — Date 4-26-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 00488016-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **CHEMICAL & VOLUME CONTROL (CV)**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S74 Addenda, 1644 Rev. 7, 1651, 1682, 1683, 1685, 1686, 1728, 1729, 1734, N-108, N-180 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber PSA – 1/4	Pacific Scientific	23855	N/A	2CV29002S	1982	Removed	YES
Snubber, Lisega 301856 RF1	LISEGA	30900553/008	N/A	2CV29002S (CAT ID# 1396543-1)	2009	Installed	NO

7. Description of Work REPLACED SNUBBER
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 00488016-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Esposito Record Date 6/14, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/6/10 to 6/15/10, 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 Dunkelberger Commissions IL-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 15, 20 10

(Final)

DOCUMENT NO.: 2.2

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

1. Owner **Exelon Nuclear** (Name) — Date 4-26-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 00488060-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **REACTOR COOLING (RC)**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S74 Addenda, 1644 Rev. 7, 1651, 1682, 1683, 1685, 1686, 1728, 1729, 1734, N-108, N-180 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber PSA – 1/2	Pacific Scientific	2829	N/A	2RC16011S	1980	Removed	YES
Snubber, Lisega 301856 RF2	LISEGA	30900553/004	N/A	2RC16011S (CAT ID# 1033720-1)	2009	Installed	NO

7. Description of Work REPLACED SNUBBER
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 00488060-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] ER Coord Date 6-14, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/6/10 to 6/15/10, 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.

[illegible] Commissions NL-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 15, 20 10

(Final)

DOCUMENT NO.: 2.2

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

1. Owner **Exelon Nuclear** (Name) — Date 4-24-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 00488066-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **REACTOR COOLING (RC)**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S74 Addenda, 1644 Rev. 7, 1651, 1682, 1683, 1685, 1686, 1728, 1729, 1734, N-108, N-180 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber, PSA – 1/2	Pacific Scientific	9917	N/A	2RC17015S	1981	Removed	YES
Snubber, Lisega 301856 RF2	LISEGA	30900553/003	N/A	2RC17015S (CAT ID# 1033720-1)	2009	Installed	NO

7. Description of Work REPLACED SNUBBER
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 00488066-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Eggert RR Crew Date 6-14, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/6/10 to 6/15/10, 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 166-1254

National Board, State Province, and Endorsements

Date: June 15, 20 10

(Final)

DOCUMENT NO.: 3A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 2-6-09
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 00553426-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **CV CHEMICAL AND VOLUME CONTROL**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W76 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) N/A
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
BOLT, CLOSURE	STOCK EQUIP.	K29	N/A	2CV01FB	1978	REMOVED	NO
BOLT, CLOSURE SA-453 GR. 660	NOVA MACH. PROD.	HT# 144C	N/A	2CV01FB CI# 1019317-1	2006	INSTALLED	NO

7. Description of Work REPLACED FILTER COVER BOLTING

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

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 00553426-01

Applicable Manufacturer's Data Reports to be attached

Original bolting documentation is not available. Condition entered in the Exelon Corrective Action Program.

IR# 00322037

Component was built in 1978

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Ernst RR Coord Date 3-8, 20 09

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 12/17/08 to 3/9/09, 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 ILL-1254

National Board, State Province, and Endorsements

Date: March 4, 20 09

DOCUMENT NO.: 5.2	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-24-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01042618-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **SI – SAFETY INJECTION**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S74 Addenda, 1644 Rev. 7, 1651, 1682, 1683, 1685, 1686, 1728, 1729, 1734, N-108, N-180 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber, PSA – 3	Pacific Scientific	20565	N/A	2SI09014S1	1986	Removed	YES
Snubber, PSA – 3	Pacific Scientific	10581	N/A	2SI09014S1	1982	Installed	YES

7. Description of Work REPLACED SNUBBER

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01042618-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Emmerth RC Cmd. Date 6-11, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/25/10 to 6/14/10, 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-1254

National Board, State Province, and Endorsements

Date: June 14, 20 10

(Final)

DOCUMENT NO.: 4A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-7-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 1052501-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **VQ – Primary Containment Purge**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, 1682 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
EQUALIZATION VALVE	JAMESBURY	NC17016-02E	N/A	2VQ5000A	1975	REMOVED	YES
EQUALIZATION DEVICE	TRENTEC	EQ-2-7M021-4	N/A	CAT ID #1420998-1 UTC# 0002837371	2008	INSTALLED	YES

7. Description of Work REPLACED EQUALIZATION VALVE W/ EQUALIZATION DEVICE PER EC#360246
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 1052501-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Esposito RRCoord Date 7-22, 20 10
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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 10/15/08 to 7/23/10, 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 166-1254
National Board, State Province, and Endorsements

Date: July 23, 20 10

DOCUMENT NO.: 4A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-6-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 1052501-03** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **VQ – Primary Containment Purge**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, 1682 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
EQUALIZATION VALVE	JAMESBURY	Valve Body S/N: NC-0149-03-AA	N/A	2VQ5000B	1975	REMOVED	YES
EQUALIZATION DEVICE	TRENTEC	EQ-2-7M021-6	N/A	CAT ID:1420998-01 UTC# 0002817047	2008	INSTALLED	YES

7. Description of Work Replaced Equalization Valve W/ Equalization Device per EC# 360246

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 1052501-03
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [signature] Date 7-22, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 10/18/08 to 7/23/10, 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 ILL-1854

Inspector's Signature National Board, State Province, and Endorsements

Date: July 23, 20 10

DOCUMENT NO.: 4A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-10-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 1052501-04** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **VQ – Primary Containment Purge**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, 1682 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
EQUALIZATION VALVE	JAMESBURY	NC17016-02AL	N/A	2VQ5001A	1975	REMOVED	YES
EQUALIZATION DEVICE	TRENTEC	EQ-2-7M021-5	N/A	CAT ID #1420998 UTC# 0002837372	2008	INSTALLED	YES

7. Description of Work REPLACED EQUALIZATION VALVE W/ EQUALIZATION DEVICE PER EC# 360246

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 1052501-04

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] RA Cord Date 7-22, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 10/15/08 to 7/23/10, 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.

[illegible] Commissions 166-1854

Inspector's Signature National Board, State Province, and Endorsements

Date: July 23, 20 10

DOCUMENT NO.: 4A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-10-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 1052501-05** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **VQ – Primary Containment Purge**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, 1682 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
EQUALIZATION VALVE	JAMESBURY	NC17016-02AD	N/A	2VQ5001B	1975	REMOVED	YES
EQUALIZATION DEVICE	TRENTEC	EQ-2-7M021-3	N/A	CAT ID #1420998 UTC# 0002837370	2008	INSTALLED	YES

7. Description of Work REPLACE EQUALIZATION VALVE W/ EQUALIZATION DEVICE PER EC# 360246

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 1052501-05

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [signature] Date 7-22, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 10/18/08 to 7/23/10, 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 IL6-1854

Inspector's Signature National Board, State Province, and Endorsements

Date: July 23, 20 10

DOCUMENT NO.: 13.1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-30-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01176166-03** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System PRIMARY CONTAINMENT VENTILATION (VP)
5. (a) Applicable Construction Code ASME Sec. III Piping 19 74 Edition, S75 Addenda, N/A Code Case
   (a) Applicable Construction Code ASME Sec. III Cooler 19 74 Edition, S76 Addenda, 1695-1 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
HEAD BOLT, ½" 13 x 4 ½", SA449	CARRIER	HT# 18474	N/A	2VP01AC SX-RH-5 Bolt# 20 & 21	1978	Removed	NO
Screw, Hex, ½" x 4 ½", SA193/B7	NOVA MACHINE	HT# US Y06420	N/A	2VP01AC, SX-RH-5 Bolt# 20 & 21 CID# 1396320-1	2008	Installed	NO

7. Description of Work INSTALLED NEW WATERBOX HEAD BOLTING

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

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01177789-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [signature] RR Cond. Date 6-22, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 1/27/10 to 6/23/10, 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 ILL-1254

Inspector's Signature — National Board, State Province, and Endorsements

Date: June 23, 20 10

(Final)

DOCUMENT NO.: 13.1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-1-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01177789-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System PRIMARY CONTAINMENT VENTILATION (VP)
5. (a) Applicable Construction Code ASME Sec. III Piping 19 74 Edition, S75 Addenda, N/A Code Case
   (a) Applicable Construction Code ASME Sec. III Cooler 19 74 Edition, S76 Addenda, 1695-1 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
HEAD BOLT, ½" x 4 ½", SA449	CARRIER	Cooler S/N# 7865406-2	N/A	2VP01AB, SX-LH-5, Bolt# 7	1978	Removed	NO
Screw, Hex, ½" x 4 ½", SA193/B7	NOVA MACHINE	HT# US YO6420	N/A	2VP01AB, SX-LH-5, Bolt# 7 CAT ID# 46596-1	2010	Installed	NO

7. Description of Work INSTALLED NEW COOLER HEAD BOLT LEFT BANK
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 100 psi Test Temp. 68 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01177789-01
Applicable Manufacturer's Data Reports to be attached
Bolt acceptable per Technical Evaluation 97-014

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [signature] Date 7-22, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 1/31/10 to 7/23/10, 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 NL-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: July 23, 20 10

(Final)

DOCUMENT NO.: 13.1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-1-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01177789-15** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System PRIMARY CONTAINMENT VENTILATION (VP)
5. (a) Applicable Construction Code ASME Sec. III Piping 19 74 Edition, S75 Addenda, N/A Code Case
   (a) Applicable Construction Code ASME Sec. III Cooler 19 74 Edition, S76 Addenda, 1695-1 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
HEAD BOLT, ½" x 4 ½", SA449	CARRIER	Cooler S/N# 7865406-1	N/A	2VP01AB, SX-RH-5 Bolt# 7, 10, 24, 25, 48, 53 , 54, 63	1978	Removed	NO
Screw, Hex, ½" x 4 ½", SA193/B7	NOVA MACHINE	HT# US YO6420	N/A	2VP01AB, SX-RH-5 Bolt# 7, 10, 24, 25, 48, 53 , 54, 63 CID# 46596-1	2010	Installed	NO

7. Description of Work INSTALLED NEW COOLER HEAD BOLTING RIGHT BANK
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 100 psi Test Temp. 68 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01177789-15
Applicable Manufacturer's Data Reports to be attached
Bolt acceptable per Technical Evaluation 97-014

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [signature] R/R Coord Date 7-22, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 1/24/10 to 7/23/10, 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-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: July 23, 20 10

(Final

DOCUMENT NO.: 7.2	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4/30/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01177830-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **WO (CHILLED WATER)**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S76 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
STUD	Anderson Greenwood	MK#: HG-2	N/A	2WO007B	1979	REMOVED	NO
STUD	Nova	Ht# 250832	N/A	2WO007B CAT ID # 37096-1	2006	INSTALLED	NO
NUT	Anderson Greenwood	MK#: HG-1	N/A	2WO007B	1979	REMOVED	NO
NUT	Nova	Ht# 251919	N/A	2WO007B CAT ID # 37033-1	2008	INSTALLED	NO

7. Description of Work INSTALLED STUDS AND NUTS
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 01177830-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] Date 6/11, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 3/31/10 to 6/11/10, 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.

[illegible] Commissions IL-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 11, 20 10

(Final)

DOCUMENT NO.: 6A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 04/26/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01177875-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **CV CHEMICAL AND VOLUME CONTROL**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) N/A
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
VALVE SEAL WELD	KEROTEST	ADF6-14	9854 THRU 9857	2CV8480A	1976	Corrected	NO

7. Description of Work Re-installed seal weld between cover and body

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

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks **WO# 01177875-01**
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David C. Little, RBR COORDINATOR Date 5-24, 20 10
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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 5/6/09 to 5/4/10, 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 ILL-1254
National Board, State Province, and Endorsements

Date: May 24, 20 ~~08~~ 10
on 5/24/10

DOCUMENT NO.: 3.2	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 04/14/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01177885-01/02** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **SI**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W/72 Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
VALVE, RELIEF	CROSBY VALVE & GAGE	N56902-00-0015	N/A	2SI8856A	1976	Removed	YES
VALVE, RELIEF	CROSBY VALVE & GAGE	N56902-00-0016	N/A	2SI8856A CAT ID 27740-1	1973	Installed	YES

7. Description of Work REPLACE RELIEF VALE 2SI8856A PER PM PROGRAM
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 181 psi Test Temp. 86 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01177885-01/02
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David A. Nibler, RRR COORDINATOR Date 5-27, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 6/30/09 to 6/1/10, 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 on 6/1/10 Commissions ILL-1254

National Board, State Province, and Endorsements

Date: June 1, 20 ~~09~~10

DOCUMENT NO.: 3.2	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-25-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01178701-01/02** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **CV – CHEMICAL VOLUME CONTROL**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 Addenda, 1649 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition / 2003 Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
VALVE, RELIEF	CROSBY VALVE & GAGE	N56900-00-0075	N/A	2CV8121	1998	Removed	YES
VALVE, RELIEF	CROSBY VALVE & GAGE	N56900-00-0018	N/A	2CV8121 CAT ID 13997-1	1977	Installed	YES

7. Description of Work REPLACED RELIEF VALVE 2CV8121 PER PM PROGRAM
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 49 psi Test Temp. 71 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01178701-01/02

Applicable Manufacturer's Data Reports to be attached

Valve pre-tested / evaluated on WO# 1178701-02

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] R Clark Date 6-24, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 6/30/08 to 6/29/10, 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.

[illegible] Commissions 166-1854

Inspector's Signature National Board, State Province, and Endorsements

Date: June 29, 20 10

DOCUMENT NO.: 3.2	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-27-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 01
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01178705-01/02** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **CC (COMPONENT COOLING)**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, S/72 Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity 2001 Edition / 2003 Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
RELIEF VALVE 2CC9427	CROSBY VALVE & GAGE CO.	N56895-00-0009	N/A	2CC9427	1975	Removed	YES
RELIEF VALVE 2CC9427	CROSBY VALVE & GAGE CO	N56895-00-0004	N/A	2CC9427 CAT ID 1442884-1	1973	Installed	YES

7. Description of Work REPLACE RELIEF VALVE 2CC9427
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 122.5 psi Test Temp. 72 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO 01178705-01/02
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David A. Sibes, RRR COORDINATOR Date 6-29, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 12/11/09 to 6/29/10, 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 166-1254

National Board, State Province, and Endorsements

Date: June 29, 20 10

DOCUMENT NO.: 6A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-29-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01178734-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **CV CHEMICAL AND VOLUME CONTROL**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) N/A
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
VALVE SEAL WELD	KEROTEST	N01-21	9536	2CV8368C	1976	REMOVED	NO
VALVE SEAL WELD	KEROTEST	N01-21	9536	2CV8368C	1976	INSTALLED	NO

7. Description of Work REMOVE / REWELD VALVE SEAL WELD (COVER TO BODY)

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 950 psi Test Temp. 110 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01178734-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] RE Coord Date 5-25, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/30/09 to 5/26/10, 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.

[illegible] Commissions IZL-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: May 26, 20 10

DOCUMENT NO.: 4.2	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4/24/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 01
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01178737-01/02** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **RY – REACTOR COOLANT**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 Addenda, 1501 & 1649 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
VALVE, RELIEF	CROSBY VALVE	N56964-00-0111	N/A	2RY8010C	1993	REMOVED	YES
VALVE, RELIEF	CROSBY VALVE	N56964-00-0049	N/A	1RY8010C Cat ID 1402762-1	1976	INSTALLED	YES

7. Description of Work REPLACED RELIEF VALVE PER PM PROGRAM

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 2229 psi Test Temp. 651 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01178737-01/02
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Esposito PR Coord. Date 6-18, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 9/8/09 to 6/18/10, 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 166-1254
National Board, State Province, and Endorsements

Date: June 18, 20 10

(Final)

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

1. Owner **Exelon Nuclear** (Name) — Date 5-4-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 2
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01180527-02** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **RC-Reactor Coolant**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S/75 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) N/A
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Studs (Qty. 2)3/4"-10, SA 193 Gr. B16	Bethlehem Steel Corp.	Heat Code: LIFU	N/A	MJ-77 on 2RC23AB-3/4" Original Const.	1981	Removed	No
Studs (Qty. 2)3/4"-10, SA 193 Gr. B7	Com Ed	UTC Nbr: 0002039994 Ht. Code: 36373029	N/A	MJ-77 WO 990070543-01 under DCP to install support 2RC02009G	1999	Removed	No
Studs (Qty. 4) 3/4"-10, SA 193 Gr. B7	Nova Machine Prod.	HT #3001306 Trace Code 3T22	N/A	MJ-77 on 2RC23AB-3/4" Cat id# 37094-1	2009	Installed	No
Nuts (Qty. 2) 3/4"-10, SA 194 Gr. 4	Bethlehem Steel Corp.	Heat Code: LICJ	N/A	MJ-77 on 2RC23AB-3/4" Original Const.	1981	Removed	No
Nuts (Qty. 2) 3/4"-10, SA 194 Gr. 2H	Com Ed	UTC Nbr: 000204623 Ht. Code: JNC	N/A	MJ-77 WO 990070543-01 under DCP to install support 2RC02009G	1999	Removed	No
Nuts (Qty. 4) 3/4"-10, SA 194 Gr. 2H	Nova Machine Prod.	HT# 241436	N/A	MJ-77 on 2RC23AB-3/4" Cat id# 1394886-1	2008	Installed	No

7. Description of Work Replaced worn flange bolting.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
   VT-1 Other ☐ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01180527-02
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] RE Coord. Date 7-1, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/19/10 to 7/2/10, 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.

[illegible] Commissions NL-1854

Inspector's Signature National Board, State Province, and Endorsements

Date: July 2, 20 10

DOCUMENT NO.: 3A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5/4/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01180530-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **RC REACTOR COOLANT**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S75 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) N/A
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
STUD	Bethlehem Steel	HT# 8087874 HT Code LIEK	N/A	2RC76A	1981	REMOVED	NO
THREADED ROD	Nova Machine Products	HT# 7526262 HT CD 281C	N/A	CAT ID# 44337-1	2006	INSTALLED	NO
NUT	Bethlehem Steel	HT# 65589 HT Code LIBP	N/A	2RC76A	1981	REMOVED	NO
NUT	Nova Machine Products	HT# Q2280A	N/A	CAT ID# 30520-1	2007	INSTALLED	NO

7. Description of Work REPLACE FLANGE STUDS AND NUTS.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01180530-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] Date 6/11, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/21/10 to 6/11/10, 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.

[illegible] Commissions ILL-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 11, 20 10

DOCUMENT NO.: 3.2	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5/3/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01199605-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **RC**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, S72* Addenda, ** Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Bolt, Primary Manway, 1.875" x 7.500"	Nova Machine	Ht Code: J940 Ht#: 2M34637	N/A	2RC01BA/MJ149B Bolt # 13	2004	Removed	No
Bolt, Primary Manway, 1.875" x 7.500"	Nova Machine	Ht Code: J940 Ht#: 2M34637	N/A	2RC01BA/MJ149B Bolt # 13	2005	Installed	No

7. Description of Work Replaced Primary Manway Bolt
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01199605-01

Applicable Manufacturer's Data Reports to be attached

* W74 for NB-2331(D), NB2332(A)(2), NB-4334, 4334.1& 4334.2, NB-4335.1, NB-4335.2, & NB-4335.3

** 1355, 1493-1, 1484, 1528

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] Date 6/17, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/28/10 to 6/17/10, 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.

[illegible] Commissions NB-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 17, 20 10

(Final)

DOCUMENT NO.: 2.2	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5/1/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01199606-02** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Westinghouse Electric Co.** (Name) — Type Code Symbol Stamp **Not Applicable**
   PO Box 158, Madison, PA 15663 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **REACTOR COOLANT (RC)**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, S72/W74 * Addenda, ** Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Mechanical Tube Plug	Westinghouse	HT# NX3188HK Lot 11 CAT ID 45093	N/A	2RC01BB S/N 2096 Row 7 Col. 7	2002	Installed	NO

7. Description of Work INSTALL MECHANICAL TUBE PLUGS IN THE 2B SG.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
   Other ☐ Pressure n/a psi Test Temp. n/a °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01199606-02

Applicable Manufacturer's Data Reports to be attached

* W74 for NB-2331(D), NB-2332(A)(2), NB-4332, NB-4334, 4334.1& 4332.2, NB-4335, NB-4335.1, NB-4335.2, & NB-4335.3

** 1355, 1493-1, 1484, 1528, NB-4643

Mechanical tube plugs fabricated to ASME Section III 1989 Edition No Addenda with Code Case N-474-1.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] Date 6/17, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 2/1/10 to 6/17/10, 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.

[illegible] Commissions 166-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 17, 20 10

(Final)

DOCUMENT NO.: 3.1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-29-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01212449-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **MS (MAIN STEAM)**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, na Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
SAFETY VALVE, 6", 1500#	DRESSER INDUSTRIES	BU01479	N/A	2MS013C	1978	Removed	YES
SAFETY VALVE, 6", 1500#	DRESSER INDUSTRIES	DA27376	N/A	2MS013C Cat ID 1442243-1	2009	Installed	YES
1 RH 04/28/10 STUD, 1-3/8" SA193 B7	TEXAS BOLT	TRACE# LR7 HT# 8898128	N/A	2MSO13C	1981	REMOVED	NO
STUD, 1-3/8" SA193 B7	NOVA MACHINE	TRACE # E382 HT#13853	N/A	2MS013C CAT ID 37106-1	2002	INSTALLED	NO
NUT, 1-3/8 SA194 2H	TEXAS BOLT	TRACE# LR8 HT# 2D9355	N/A	2MS013C	1981	REMOVED	NO
NUT, 1-3/8 SA194 2H	NOVA MACHINE	TRACE# 438C HT# 11557520	N/A	2MS013C CAT ID 1394991-1	2007	INSTALLED	NO

7. Description of Work REPLACE RELIEF VALVE / REPLACED ONE STUD AND TWO (2) NUTS
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 949.68 psi Test Temp. 651.78 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01212454-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David A. Sides, RRR COORDINATOR Date 5-18, 20 10
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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 2/25/10 to 5/24/10, 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 11L-1254
National Board, State Province, and Endorsements

Date: May 24, 20 10

(Final)

DOCUMENT NO.: 3.1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4/29/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 01
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01212452-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **MS (MAIN STEAM)**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, na Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
SAFETY VALVE, 6", 1500#	DRESSER INDUSTRIES	BU01487	N/A	2MS015C	1978	Removed	YES
SAFETY VALVE, 6", 1500#	DRESSER INDUSTRIES	DA27375	N/A	2MS015C Cat ID 1442238-1	2009	Installed	YES

7. Description of Work REPLACE RELIEF VALVE

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 949.68 psi Test Temp. 651.78 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01212452-01

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David A. Sikes, RER COORDINATOR Date 6-8, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 3/25/10 to 6/11/10, 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 NL-1254

National Board, State Province, and Endorsements

Date: June 11, 20 ~~09~~ 10 6/11/10

(Final)

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

1. Work performed by: **NWS Technologies, LLC** Purchase Order # 458731
   131 Venture Boulevard, Spartanburg, SC 29306

2. Work performed for: Exelon Corporation, Byron Nuclear Station

3/4. Owner - name, address and identification of nuclear power plant: Exelon Corporation,
   Byron Nuclear Station 4450 N. German Church Road Byron, IL 61010

5. a: Repaired pressure relief device: Main Steam Safety Valve
   b: Name of manufacturer: Consolidated / Dresser
   c: Identifying nos.

3707R	DA27375	n/a	steam	6"	2009
(type)	(mfr's S/N)	(NB#)	(service)	(size)	(yr.built)

   d: Construction Code:

ASME Section III	1974	n/a	n/a	2
(name/section/division)	(edition)	(addenda)	(Code Cases(s))	(Code Class)

6. ASME Code Section XI applicable for inservice inspection:

2001	2003	n/a
(edition)	(addenda)	(Code Case(s))

7. ASME Code Section XI used for repairs, replacements:

2001	2003	n/a
(edition)	(addenda)	(Code Case(s))

8. Construction Code used for repairs, replacements:

1974	n/a	n/a
(edition)	(addenda)	(Code Case(s))

9. Design responsibilities: n/a

10. Opening pressure: 1205 psig
    Set-pressure adjustment made at: NWS Technologies, LLC using steam

11. Description of work (Include name and identifying number of replacement parts): Disassembled, cleaned, inspected, lapped nozzle & passivated seat area, lapped and pre-oxidized the X750 disc, load tested the spring, assembled. Certified set-pressure and seat tightness using steam.

12. Remarks: NWS Traveler # 10-63. No parts replaced.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2012.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2012.

4/8/10	NWS Technologies, LLC	[signature]	Manager, QA
Date	Repair Organization	Authorized representative	Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 8 APRIL 2010 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Futhermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

4/8/10	HSB CT [signature]	NB # 8462, A, N, I NC# 1073
Date	Inspector's Signature	Commissions (NB (incl endorsements), jurisdiction, & no.)

[signature] 4/15/10

163545

NWS *technologies*

Work Progression & Hold Point Checklist

Valve Serial Number: DA27375 PO#: 458731 NWS Traveler # 10-63

This block to be signed after indicating hold points and prior to work:

This traveler has been reviewed and approved for use by: NWS QA - Cesar Sierra 3/30/10 Date

Construction Code: ASME Section: III Edition: 74 Addenda: n/a CodeCase: n/a

Repair Code: ASME Section: XI Edition: 2001 Addenda: 2003 CodeCase: n/a

This traveler has been reviewed and approved for use by: Exelon ANII - Jeff Hendricks 3/30/10 Date

OK to proceed, pls TEL DON. W.O. Toegel ANI @ 3/30/10

This traveler has been reviewed and approved for use by: NWS (HSB) ANI - Charles Toegel 4/8/10 Date

Work Step	NWS QA Hold	NWS QA Witness Date/Init.	NWS ANI Hold	NWS ANI Witness Date/Init.
This is a new valve.				
1. Receipt Inspection				
2. Full disassembly (NWS-R-3 rev 7)				
3. Component inspection				
4. Repair (Section XI) components (Exelon Attachment 5 req'd)	✓	n/a 4/8/10	✓	n/a 4/8/10
5. Replace (Section XI) components (Exelon Attachment 5 req'd)	✓	n/a 4/8/10	✓	n/a 4/8/10
6. Lap and oxidize the X750 disc (NWS-I-2 Rev 0)				
7. Lap and passivate nozzle seat (NWS-I-3 Rev 0)				
8. Inspect Spring / Load Test Spring				
9. Valve assembly				
10. Set blowdown rings				
11. Steam set-pressure certification testing (NWS-T-62 rev 1)				
12. Steam seat tightness test.				
13. Tighten compression screw locknut & torque seal			✓	4/8/10
14. Lockwire and seal ring pins and cap	✓	4/8/10	✓	4/8/10
15. Final Inspection	✓	4/8/10	✓	4/8/10
16. Completion of Form NVR-1	✓	4/8/10	✓	4/8/10
17. Apply nameplate	✓	4/8/10	✓	4/8/10

This block to be signed after completion of work:

This traveler has been reviewed and accepted by: NWS Quality Assurance 4/8/10 Date

This traveler has been reviewed and accepted by: NWS ANI 4/8/10 Date

HSB-CT/ANII

on 4/15/10

163545

NWS technologies 131 Venture Boulevard Spartanburg, SC 29306 Ph: 864-587-7001 Fx: 864-587-9005	**Certificate of Conformance** of work performed for **Exelon** **Byron Nuclear Station** **Purchase Order # 458731**

Valve Identification

Valve S/N: DA27375 Model Number: 3707R Main Steam

Set-Pressure: 1205 psig Valve OEM: Dresser NWS Traveler # 10-63

Job Summary

This was a new valve which had not been installed at site.
Repair: The valve was repaired under the NWS VR/NR programs. The X750 disc was lapped and oxidized disc prior to reuse. The nozzle seat was passivated after lapping. The spring was load tested with satisfactory results. Wear areas were cleaned as necessary. All wear areas and contact points were lubricated prior to assembly.
Initial Test: The valve was allowed to thermally stabilize at a holding pressure of ~1000 psig. A total of four lifts were done. No adjustments were required. The final two lifts were within the required as-left BYRON acceptance range of ±1% of set-pressure.
Final Seat Tightness Testing: Following set-pressure certification, system pressure was maintained at 90%. No moisture was detected on a cold bar placed in the vicinity of the seats.
All work was done by NWS personnel. An NWS test supervisor was present during all testing. An HSB of CT reviewed documentation, witnessed nameplate installation, and completed an NVR-1 form.
The valve was cleaned, sealed and packaged for return shipment.

Set-Pressure Certification Lifts (1193 to 1217 psig)

Lift Number	Date	Time	Set-Pressure (PSIG)	Inlet Flange (°F)	Body (°F)	Spring Can (°F)	Ambient (°F)
63-0-3	4/7/10	10:25	1214	443	265	141	124
63-0-4	4/7/10	10:32	1206	442	268	142	123

We certify that all work performed was in compliance with the referenced PO and other correspondence, NWS QA System Manual Rev. 4, NWS VR Program Rev. 7, NWS NR Program Rev. 6, NWS Procedures and the documents referenced therein. All required tests and inspections have been performed and the results accepted. Documentation supporting this Certificate of Conformance is available for review as applicable.

NWS Job Coordinator: T.P. Nederostek - V.P. Operations Date: 4/8/10

NWS Quality Assurance: C.V. Sierra - QA Manager Date: 4/8/10

HSB-CT/ANII
4/15/10

163545

DOCUMENT NO.: 3.1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4/29/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01212454-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **MS (MAIN STEAM)**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, na Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
SAFETY VALVE, 6", 1500#	DRESSER INDUSTRIES	BU01495	N/A	2MS017C	1978	Removed	YES
SAFETY VALVE, 6", 1500#	DRESSER INDUSTRIES	BR09609	N/A	2MS017C Cat ID 1439913-1	1977	Installed	YES

7. Description of Work REPLACE RELIEF VALVE
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 949.68 psi Test Temp. 651.78 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01212454-01

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David A. Silva, RRR COORDINATOR Date 6-8, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 2/25/10 to 6/8/10, 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 NB-1854

National Board, State Province, and Endorsements

Date: June 8, 20 10

(Final)

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

1. Work performed by: **NWS Technologies, LLC** Purchase Order # 454204
131 Venture Boulevard, Spartanburg, SC 29306

2. Work performed for: Exelon Corporation, Byron Nuclear Station

3/4. Owner - name, address and identification of nuclear power plant: Exelon Corporation,
Byron Nuclear Station 4450 N. German Church Road Byron, IL 61010

5. a: Repaired pressure relief device: Main Steam Safety Valve
b: Name of manufacturer: Consolidated / Dresser
c: Identifying nos.

3707R	BR09609	n/a	steam	6"	77
(type)	(mfr's S/N)	(NB#)	(service)	(size)	(yr.built)

d: Construction Code:

ASME Section III	1974	n/a	n/a	2
(name/section/division)	(edition)	(addenda)	(Code Cases(s))	(Code Class)

6. ASME Code Section XI applicable for inservice inspection:

2001	2003	n/a
(edition)	(addenda)	(Code Case(s))

7. ASME Code Section XI used for repairs, replacements:

2001	2003	n/a
(edition)	(addenda)	(Code Case(s))

8. Construction Code used for repairs, replacements:

1974	n/a	n/a
(edition)	(addenda)	(Code Case(s))

9. Design responsibilities: n/a

10. Opening pressure: 1175 psig
Set-pressure adjustment made at: NWS Technologies, LLC using steam

11. Description of work (include name and identifying number of replacement parts): Disassembled, cleaned, inspected, lapped nozzle & passivated seat area, lapped and pre-oxidized the X750 disc, load tested the spring, assembled. Certified set-pressure and seat tightness using steam.

12. Remarks: NWS Traveler # 10-66. No parts replaced.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2012.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2012.

4/8/10	NWS Technologies, LLC	[signature]	Manager, QA
Date	Repair Organization	Authorized representative	Title

CERTIFICATE OF INSPECTION

I, Charles F. Toegel Jr. holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of North Carolina and employed by Hartford Steam Boiler of CT of Hartford, CT have inspected the repair, modification or replacement described in this report on 8 APRIL 2010 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Futhermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

4/8/10	[signature]	HSB	NB # 8462, A, N, I NC# 1073
Date	Inspector's Signature		Commissions (NB (incl endorsements), jurisdiction, & no.)

on 4/15/10 163552

NWS technologies

Work Progression & Hold Point Checklist

Valve Serial Number: BR09609 PO#: 452404 rev 1 NWS Traveler # 10-66

This block to be signed after indicating hold points and prior to work:

This traveler has been reviewed and approved for use by: NWS QA - Jason Gibson Date 4-1-2010

Construction Code: ASME Section: III Edition: 74 Addenda: n/a CodeCase: n/a

Repair Code: ASME Section: XI Edition: 2001 Addenda: 2003 CodeCase: n/a

This traveler has been reviewed and approved for use by: Bijon ANII - Jon Hendricks Date 4/1/10

T. ULLOESTER for C. TOEGEL

This traveler has been reviewed and approved for use by: per phone conversation NWS (HSB) ANI - Charles Toegel Date 4-1-10

Work Step	NWS QA Hold	NWS QA Witness Date/Init.	NWS ANI Hold	NWS ANI Witness Date/Init.
Valve had been tested at site. Sent to NWS for refurb and steam set-pressure certification.				
1. Receipt inspection				
2. Full disassembly (NWS-R-3 rev 7)				
3. Component inspection				
4. Repair (Section XI) components (Exelon Attachment 5 req'd)	✓	N/A 4/8/10		4/8/10
5. Replace (Section XI) components (Exelon Attachment 5 req'd)	✓	N/A 4/8/10		N/A 4/8/10
6. Lap and oxidize the X750 disc (NWS-I-2 Rev 0)				
7. Lap and passivate nozzle seat (NWS-I-3 Rev 0)				
8. Inspect Spring / Load Test Spring				
9. Valve assembly				
10. Set blowdown rings				
11. Steam set-pressure certification testing (NWS-T-62 rev 1)				4/6/10
12. Steam seat tightness test.				4/6/10
13. Tighten compression screw locknut & torque seal				
14. Lockwire and seal ring pins and cap	✓	4/8/10	✓	4/8/10
15. Final Inspection	✓	4/8/10	✓	4/8/10
16. Completion of Form NVR-1	✓	4/8/10	✓	4/8/10
17. Apply nameplate	✓	4/8/10	✓	4/8/10

This block to be signed after completion of work:

This traveler has been reviewed and accepted by: NWS Quality Assurance Date 4/8/10

This traveler has been reviewed and accepted by: NWS ANI Date 4/8/10

HSB-CT/ANII

4/15/10

163552

NWS
technologies
131 Venture Boulevard
Spartanburg, SC 29306
Ph: 864-587-7001
Fx: 864-587-9005

Certificate of Conformance

of work performed for

Exelon
Byron Nuclear Station

Purchase Order # 454204

Valve Identification

Valve S/N: **BR09609** Model Number: 3707R Main Steam

Set-Pressure: 1175 psig Valve OEM: Dresser NWS Traveler # 10-66

Job Summary

As-found testing had been done at site.
Repair: The valve was repaired under the NWS VR/NR programs. The X750 disc was lapped and oxidized disc prior to reuse. The nozzle seat was passivated after lapping. The spring was load tested with satisfactory results. Wear areas were cleaned as necessary. All wear areas and contact points were lubricated prior to assembly.
Initial Test: The valve was allowed to thermally stabilize at a holding pressure of ~1000 psig. A total of three lifts were done. No adjustments were required. The final two lifts were within the required as-left BYRON acceptance range of ±1% of set-pressure.
Final Seat Tightness Testing: Following set-pressure certification, system pressure was maintained at 90%. No moisture was detected on a cold bar placed in the vicinity of the seats.
All work was done by NWS personnel. An NWS test supervisor was present during all testing. An HSB of CT reviewed documentation, witnessed steam certification testing, nameplate installation, and completed an NVR-1 form.
The valve was cleaned, sealed and packaged for return shipment.

Set-Pressure Certification Lifts (1164 to 1186 psig)

Lift Number	Date	Time	Set-Pressure (PSIG)	Inlet Flange (°F)	Body (°F)	Spring Can (°F)	Ambient (°F)
66-0-2B	4/6/10	12:23	1179	469	248	144	114
66-0-3B	4/6/10	12:28	1178	469	249	144	114

We certify that all work performed was in compliance with the referenced PO and other correspondence, NWS QA System Manual Rev. 4, NWS VR Program Rev. 7, NWS NR Program Rev. 6, NWS Procedures and the documents referenced therein. All required tests and inspections have been performed and the results accepted. Documentation supporting this Certificate of Conformance is available for review as applicable.

NWS Job Coordinator: T.P.Nederostek - V.P. Operations Date: 4/8/10

NWS Quality Assurance: C.V.Sierra - QA Manager Date: 4/8/10

HSB-CT/ANI
4/15/10

163552

DOCUMENT NO.: 3A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4/26/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 2
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01213643-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **CV – CHEMICAL VOLUME CONTROL**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, S72 Addenda, 1540-1 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) None
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Diaphragm Valve	ITT Grinnell	74-1658-25-4	N/A	2CV8399	1976	Removed	Yes
Valve Bonnet	ITT GRINNELL	Vlv. 74-1658-13-2	N/A	2CV8399 Cat ID# 38640-1	1976	Installed	Yes

7. Description of Work REMOVED BONNET ASSEMBLY FROM OLD VALVE AND REPLACE WITH NEW BONNET ASSEMBLY (INCLUDING DIAPHRAGM).
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 35 psi Test Temp. 148 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

UTILIZED BONNET ASSEMBLY AND DIAPHRAGM FROM VAVLE (CAT ID# 38640-1)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David A. Nibbs, RRR COORDINATOR Date 5-17, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/25/10 to 5/19/10, 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 IRL-1254

National Board, State Province, and Endorsements

Date: May 19, 20 ~~08~~ 10

On 5/19/10

DOCUMENT NO.: 6A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4/28/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 2
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01225344-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **SI Safety Injection**
5. (a) Applicable Construction Code - Pipe ASME Sect III 19 74 Edition, S75 Addenda, N/A Code Case
   (a) Applicable Construction Code - Valve ASME Sect III 19 74 Edition, S76 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Kerotest	US6-24	21,428	2SI8819C CI# 32726-1	1978	Removed	Yes
Valve	Kerotest	US7-11	21,453	2SI8819C CI# 32726-1	1978	Installed	Yes
PIPE SCH.160	CONSOLIDATED POWER SUPPLY	HT# 505112	N/A	2SI18FC-2" CI# 32352-1	2006	Removed	NO
PIPE SCH.160	CONSOLIDATED POWER SUPPLY	HT# 505112	N/A	2SI18FC-2" CI# 32352-1	2010	Installed	NO
COUPLING	TIOGA PIPE	HT# HRV	N/A	2SI18FC-2" CI# 39261-1	2008	Removed	NO
COUPLING	Guyon Alloys, Inc.	Ht. Code: CJW	N/A	2SI18FC-2" CI# 39261-1	1982	Installed	NO
ORIFICE FLANGE	Consolidated Power Supply	HT# 2082ANE1	N/A	2SI18FC-2" CAT# 1230885-1	2008	Removed	NO
STANDARD FLANGE	Joliet Valves Inc.	HT# D2283	N/A	2SI18FC-2" Cat Id# 30443-1	1984	Installed	NO

7. Description of Work REPLACE VALVE, PIPE & FLANGE (PER EC 375527)
   Replace flange bolting and orifice plate on 2SI06MC per EC 375527,
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure ①865 / ②615 psi Test Temp. 87 / N/A °F

① Class-2 portion, ② Class-1 portion

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01225344-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Espinit RR Coord. Date 6-8, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 12/2/09 to 6/14/10, 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 ILL-1854
National Board, State Province, and Endorsements

Date: June 14, 20 10

FORM NIS-2 SUPPLEMENTAL SHEET

1. Owner **Exelon Nuclear** (Name) — Date 4/28/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 2 of 2
2. Plant **Byron Nuclear Power Station** (Name) — Unit 2
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01225344-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System CC – Component Cooler
5. (a) Applicable Construction Code: Piping ASME Sect III 19 74 Ed, S/75 Ad, None Code Case
   Applicable Construction Code: Valve ASME Sect III 19 74 Ed, S/76 Ad, None Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacement Components **2001 Ed/2003 Ad**
   (c) Section XI Code Cases used, None.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipe Sch. 160	Guyon Alloys	Mk.# 749803 MRR # 5962	N/A	2SI18FC-2*	1982	Removed	No
Orifice Plate	Hunter Corp.	Ht. # K51292	N/A	2SI06MC	1981	Removed	No
Orifice Plate	Energy Steel	Ht # 877945 MIC# T25975	N/A	2SI06MC Cat/Id: 1443150-1	2010	Installed	No
Flange Studs Qty. 8	Hunter Corp.	Mk.# LIEH	N/A	2SI06MC (MJ-48A)	1981	Removed	No
Flange Studs Qty. 8	Nova Machine Prod.	HT# 7526262 TC# 147F	N/A	2SI06MC Cat/ID: 44337-1	2006	Installed	No
Flange Nuts Qty. 16	Nova Machine Products	Mk. #LIBP	N/A	2SI06MC (MJ-48A)	1981	Removed	No
Flange Nuts Qty. 16	Nova Machine Prod.	HT# Q2280A	N/A	2SI06MC Cat/Id: 30520-1	2007	Installed	No

(Final)

DOCUMENT NO.: 3-1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-26-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 2
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No.** 01225561-01 (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System SI – Safety Injection
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W/72 Addenda, 1553-1 1649 Code Case (nuts)
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) None
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Disc for 6" Swing Check Valve.	McWilliams FORGE CO.	S/N: 2075 HT # 65800	W10992 (Valve)	EPN: 2SI8818C ID: 6C88	1976	Removed	No
Disc for 6" Swing Check Valve.	IONICS, INC	RP-2000	N/A	EPN: 2SI8818C ID: 6C88	2001	Installed	No

7. Description of Work Replaced the check valve disc
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
   Other ☐ Pressure n/a psi Test Temp. n/a °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Reference WO 01225561-01.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David A. Nikle RBR COORDINATOR Date 5-11, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 12/3/09 to 5/11/10, 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 ILL-1254

National Board, State Province, and Endorsements

Date: May 11, 20 10

DOCUMENT NO.: 5.2

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

1. Owner **Exelon Nuclear** (Name) — Date 4 / 25 / 10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01232858-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **SI – SAFETY INJECTION**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S75 Addenda, NONE Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
BONNET NUT	VITCO	N2	N/A	2SI8816D	1978	Removed	NO
BONNET NUT	NOVA MACHINE PRODUCTS	HT# 532670 TRACE# E578	N/A	2SI8816D CAT ID 37057-1	2002	Installed	NO

7. Description of Work REPLACE DAMAGED BONNET NUT

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

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Replacement per WO 01232858-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Esposito RC Cond Date 6-7, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/25/10 to 6/7/10, 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-1254
National Board, State Province, and Endorsements

Date: June 7, 20 10

DOCUMENT NO.: 5.1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-27-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 01
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01241053-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **SI – Safety Injection**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S75 Addenda, None Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
PIPE, 2" SCH 160	SANDVIK INC.	HT# 745223	N/A	2SI18EB-2"	1977	Removed	NO
ELBOW, 90°, 6000#	ALLOY STAINLESS PRODUCTS	MK# PI HT# 74188	N/A	2SI18EB-2"	1977	Removed	NO
PIPE, 2" SCH 160	CONSOLIDATED POWER	HT# 505112	N/A	2SI18EB-2" Cat ID 32352-1	2010	INSTALLED	NO
ELBOW, 90°, 6000#	ALLOY STAINLESS	TRACE# PJ A91-00363	N/A	2SI18EB-2" Cat ID 26875-1	1977	INSTALLED	NO
COUPLING, 2", 6000#	AMCO FITTINGS CO.	HT# EEX	N/A	2SI18EB-2" Cat ID 26943-1	1981	INSTALLED	NO

7. Description of Work INSTALLED PIPING (APPROX. 7 FT.) AND FITTINGS (2 ELBOWS & 1 COUPLING)
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   Other ☐ Pressure 865 psi Test Temp. 87 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01241053-01

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] Record Date 6-7, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 3/12/10 to 6/8/10, 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.

[illegible] Commissions IL-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 8, 20 10

(Final)

DOCUMENT NO.: 5.1	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 4-27-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 01
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01241053-08** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **SI (SAFETY INJECTION)**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S75 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
STRAP, PIPE GUIDE WELDS	HUNTER	N/A	N/A	2SI17038X	1984	Installed	NO

7. Description of Work MODIFIED PIPE SUPPORT 2SI17038X PER EC# 375526

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks 01241053-08

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed Scott Emmott Date 6-7, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 3/18/10 to 6/8/10, 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 166-1254

National Board, State Province, and Endorsements

Date: June 8, 20 10

DOCUMENT NO.: 4A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-2-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 2
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01279020-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **RC REACTOR COOLANT**
5. (a) Applicable Construction Code - Valves **Sect. III** 19 74 Edition, S76 Addenda, N-141(1773) Code Case
   (a) Applicable Construction Code - Pipe **Sect. III** 19 74 Edition, S75 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) N/A
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
PIPE 1/2" SCHED.160	Unidentified	HT# 462521	N/A	2RC31DB	1992	REMOVED	NO
PIPE 1/2" SCHED.160	Consolidated Power Supply	HT #8207J	N/A	2RC31B & 2RC31C	2000	INSTALLED	NO
TEE	Unidentified	HT# KR	N/A	2RC31B & 2RC31EA	1992	REMOVED	NO
TEE	Consolidated Power Supply	Lot #44050	N/A	2RC31B & 2RC31C	2010	INSTALLED	NO
ELBOW	Unidentified	HT Code #PP	N/A	2RC31B	1992	REMOVED	NO
ELBOW	Guyon Alloys Inc.	HT Code# PP	N/A	2RC31B	1982	INSTALLED	NO

7. Description of Work REPLACED REACTOR HEAD VENT VALVES AND PIPING, REPLACED U-BOLT & REMOVED / REINSTALLED PIPE SUPPORT WELDS
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
   VT-3 Other ☐ Pressure 2244 psi Test Temp. 557 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01279020-01
Applicable Manufacturer's Data Reports to be attached
CAT ID# 41641-1 consists of 2 Solenoid Valves, 2 reducers, 2 (1/2") nipples, 1(1")

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] RR Cons. Date 7-1, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 2/24/10 to 7/6/10, 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.

[illegible] Commissions 16L-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: July 6, 20 10

FORM NIS-2 SUPPLEMENTAL SHEET

1. Owner **Exelon Nuclear** (Name) — Date 5-2-10

4300 Winfield Road, Warrenville, IL (Address) — Sheet 2 of 2

2. Plant **Byron Nuclear Power Station** (Name) — Unit 02

4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01279020-01** (Repair Organization, P.O. No., Job No., etc.)

3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**

4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**

4. Identification of System RC REACTOR COOLANT

5. (a) Applicable Construction Code - Valves **Sect. III** 19 74 Edition, S76 Addenda, N-141(1773) Code Case
   (a) Applicable Construction Code - Pipe **Sect. III** 19 74 Edition, S75 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacement Components **2001 Ed/2003 Ad**
   (c) Section XI Code Cases used, N/A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
SOLENOID VALVE	VALCOR ENGINEERING	S/N# 44	N/A	2RC014A	1992	REMOVED	YES
SOLENOID VALVE	VALCOR ENGINEERING	S/N# 45	N/A	2RC014C	1992	REMOVED	YES
SOLENOID VALVE	VALCOR ENGINEERING	S/N# 42	N/A	2RC014B	1992	REMOVED	YES
SOLENOID VALVE	VALCOR ENGINEERING	S/N# 52	N/A	2RC014D	1997	REMOVED	YES
SOLENOID VALVE WELDED ASSY	VALCOR ENGINEERING	VLV ASSY SN# 4 2RC014A SN# 7 2RC014C SN# 8	N/A	2RC014A & C UTC #2837690 CAT# 41641-1	2009	INSTALLED	YES
SOLENOID VALVE WELDED ASSY	VALCOR ENGINEERING	VLV ASSY SN# 3 2RC014B SN# 5 2RC014D SN# 6	N/A	2RC014B & D UTC #2039040 CAT# 41641-1	1998	INSTALLED	YES
INSERT 1 X 1/2"	Unidentified	4C3414	N/A	2RC014A	1992	REMOVED	NO
U-BOLT	Unidentified	HT# 8868763	N/A	2RC99012X	1992	REMOVED	NO
U-BOLT	BERGEN - POWER	N/A	N/A	2RC99012X CAT# 42291-1	2007	INSTALLED	NO
PIPE SUPPORT STRAP WELDS	Exelon	N/A	N/A	2RC99013X	1998	REMOVED	NO
PIPE SUPPORT STRAP WELDS	Exelon	N/A	N/A	2RC99013X	2010	INSTALLED	NO
PIPE SUPPORT STRAP WELDS	Exelon	N/A	N/A	2RC99014X	1998	REMOVED	NO
PIPE SUPPORT STRAP WELDS	Exelon	N/A	N/A	2RC99014X	2010	INSTALLED	NO

(Final)

DOCUMENT NO.: 5.2

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

1. Owner **Exelon Nuclear** (Name) — Date 4-25-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01329864-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Shaw/Stone & Webster** (Name) — Type Code Symbol Stamp **Not Applicable**
   36400 S. Essex Road, Wilmington, IL 60481 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **PRIMARY CONTAINMENT ISOLATION**
5. (a) Applicable Construction Code - Weld ASME Sect III 19 74 Edition, S75 Addenda, _____ Code Case
5. (a) Applicable Construction Code - Penn ASME Sect III 19 74 Edition, S76 Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Penetration# PC-66	Energy Products Group	802165-5C	N/A	2PC066M	1978	Corrected	No

7. Description of Work METAL REMOVAL OF A DEFECT PER EC# 379830

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

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01329864-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] Date 6-11, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4/17/10 to 6/11/10, 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.

[illegible] Commissions ILL-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 11, 20 10

(Final)

DOCUMENT NO.: 2A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5/3/10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 1332152-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **RC - REACTOR VESSEL**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, S/73 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s)
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Reactor Closure Stud #11	McINNES STEEL	HT#214444	N/A	2RC01R	1975	CORRECTED	NO

7. Description of Work MODIFY/TRIM REACTOR VESSEL CLOSURE STUD (HEAD STUD #11) APPROXIMATELY 5" PER EC 379850
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO#1332152-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed David A. Silva, RRR COORDINATOR Date 6-29, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 4-30-10 to 6-30-10, 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 166-1254

National Board, State Province, and Endorsements

Date: June 30, 20 10

(Final

DOCUMENT NO.: 2A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-5-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01335437-08** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL 61010 (Address) — Authorization No. **Not Applicable**
   Expiration Date **Not Applicable**
4. Identification of System **(RC) Reactor coolant**
5. (a) Applicable Construction Code ASME Section III 1974 Edition, S76 Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Snubber Control Valve Assy	ITT Grinnell (BOEING)	Snubber S/N: 19	N/A	2RC01BC-A Snubber S/N: 19	1979	Removed	NO
Snubber Control Valve Assy	ITT Grinnell (BOEING)	Snubber S/N: 4	N/A	Cat id:17296 UTC# 2038032	1979	Installed	NO

7. Description of Work REPLACED SNUBBER CONTROL VALVE ASSEMBLY
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01335437-08
Applicable Manufacturer's Data Reports to be attached
CONTROL VALVE ASSEMBLY TESTED ON WO# 1216985-01

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [signature] RRLand, Date 6-25, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 5/5/10 to 6/29/10, 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 166-1254

Inspector's Signature National Board, State Province, and Endorsements

Date: June 29, 20 10

(Final)

DOCUMENT NO.: 4A	REV. NO.: 0

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

1. Owner **Exelon Nuclear** (Name) — Date 5-6-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **Work Order No. 01335438-01** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Byron Mechanical Maintenance** (Name) — Type Code Symbol Stamp **Not Applicable**
   4450 N. German Church Road, Byron, IL (Address) — Authorization No. **Not Applicable**; Expiration Date **Not Applicable**
4. Identification of System **RC REACTOR COOLANT**
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, S/75 Addenda, 1644-4 Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity: **2001 Edition/2003 Addenda**
   (c) Section XI Code Case(s) N/A
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
WELDED STUDS	Teledyne Brown Eng.	Melt No. D5896	N/A	2RC01BC H-SG-109	1978	REMOVED	NO
THREADED STUD (4)	Nova Machine Prod.	HT# 230113	N/A	CAT ID# 24979-1	2007	INSTALLED	NO
NUTS	Unidentified	SA-194 Gr. 2H	N/A	2RC01BC H-SG-109	1986	REMOVED	NO
NUTS (12)	Nova Machine Prod.	HT# 361170	N/A	CAT ID# 37027-1	2007	INSTALLED	NO
SLOTTED PLATE	Unidentified	Unidentified	N/A	2RC01BC H-SG-109	1986	CORRECTED	NO

7. Description of Work ALTERED SHIM PLATE AND INSTALLED BOLTS AND NUTS ON THE 2C STEAM GENERATOR UPPER LATERAL RESTRAINT, SOUTH EAST SHIM PACK PER EC# 380019
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
   VT-3 Other ☒ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 01335438-01
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed _____ Date 7-16, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 5/5/10 to 7/22/10, 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.

_____ Commissions IL-1254

Inspector's Signature — National Board, State Province, and Endorsements

Date: July 22, 20 10

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

1. Owner **Exelon Nuclear** (Name) — Date 3-17-10
   4300 Winfield Road, Warrenville, IL (Address) — Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name) — Unit 02
   4450 N. German Church Road, Byron, IL (Address) — **P.O. 00451499** (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **NWS Technologies, LLC**
   131 Venture Boulevard
   Spartanburg, SC 29306 (Address)
   Type Code Symbol Stamp NR / VR
   Authorization No. 81 / 632
   Expiration Date 4-9-12 / 4-3-12
4. Identification of System **REACTOR COOLANT (RY)**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W72 Addenda, None Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
PRESSURIZER NOZZLE TYPE RELIEF VALVE (NOZZLE)	Crosby Valve & Gage Co.	VALVE S/N: N56964-00-0049	N/A	CAT ID# 1402762-1 UTC# 2705394	1976	CORRECTED	YES

7. Description of Work VENDOR – MACHINED NOZZLE TO RETORE SEAT STEP & TOP OF FLANGE TO TOP OF SEAT DIMENSION.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks P.O. 00451499
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] RR Coord Date 3-19, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 3/12/10 to 3/20/10, 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.

[illegible] Commissions VLL-1054

Inspector's Signature National Board, State Province, and Endorsements

Date: March 20, 20 10

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

1. Work performed by: **NWS Technologies, LLC** Purchase Order # 451499
   131 Venture Boulevard, Spartanburg, SC 29306

2. Work performed for: Exelon Corporation, Byron Nuclear Station

3/4. Owner - name, address and identification of nuclear power plant: Exelon Corporation,
   Byron Nuclear Station 4450 N. German Church Road Byron, IL 61010

5. a: Repaired pressure relief device: Pressurizer Safety Valve
   b: Name of manufacturer: Crosby Valve & Gage Co.
   c: Identifying nos.

HB-86-BP	N56964-00-0049	n/a	steam	6"	1976
(type)	(mfr's S/N)	(NB#)	(service)	(size)	(yr.built)

   d: Construction Code:

ASME Section III	1971	W72	n/a	1
(name/section/division)	(edition)	(addenda)	(Code Cases(s))	(Code Class)

6. ASME Code Section XI applicable for inservice inspection:

2001	2003	n/a
(edition)	(addenda)	(Code Case(s))

7. ASME Code Section XI used for repairs, replacements:

2001	2003	n/a
(edition)	(addenda)	(Code Case(s))

8. Construction Code used for repairs, replacements:

1971	W72	n/a
(edition)	(addenda)	(Code Case(s))

9. Design responsibilities: n/a

10. Opening pressure: 2460 psig
    Set-pressure adjustment made at: NWS Technologies, LLC using steam

11. Description of work (include name and identifying number of replacement parts): As-found tested (CEAR 09-49), disassembled, inspected, cleaned, machined nozzle to restore seat step (CEAR 10-25), lapped seats, checked nozzle torque, lubricated, assembled. Certified set-pressureusing steam. Jacked and lapped to restore seat integrity. Final seat tightness and bellows/gasket integrity verified using gaseous nitrogen.

12. Remarks: NWS Traveler # 09-280. No parts were replaced.

CERTIFICATE OF COMPLIANCE

I, Cesar V. Sierra certify that to the best of my knowledge and belief the statements made in this report are correct and the repair, modification or replacement of the pressure relief devices described above conforms to Section XI of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
National Board Certificate of Authorization No. 632 to use the "VR" stamp expires April 3, 2012.
National Board Certificate of Authorization No. 81 to use the "NR" stamp expires April 9, 2012.

3/17/10	NWS Technologies, LLC		QA Manager
Date	Repair Organization	Authorized representative	Title

CERTIFICATE OF INSPECTION

I, **Charles F. Toegel Jr.** holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of **North Carolina** and employed by **Hartford Steam Boiler of CT** of Hartford, CT have inspected the repair, modification or replacement described in this report on 17 MAR 2010 and state that to the best of my knowledge and belief, this repair, modification or replacement has been completed in accordance with Section XI of the of the ASME Code and the National Board Inspection Code "VR" and "NR" rules.
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning this repair, modification or replacement described in this report. Futhermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.

3/17/10		NB # 8462, A, N, I, NC# 1073
Date	Inspector's Signature	Commission (NB (inc endorsements), jurisdiction,& no.)

3/20/10 62764

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

1. Owner **Exelon Nuclear** (Name)
   4300 Winfield Road, Warrenville, IL (Address)
   Date 3-11-10
   Sheet 1 of 1
2. Plant **Byron Nuclear Power Station** (Name)
   4450 N. German Church Road, Byron, IL (Address)
   Unit 02
   P.O. 00454346 (Repair Organization, P.O. No., Job No., etc.)
3. Work Performed by **Trentec**
   4600 East Tech Drive
   Cincinnati, Ohio 45245 (Address)
   Type Code Symbol Stamp NPT
   Authorization No. N-2934
   Expiration Date 4-9-10
4. Identification of System **Primary Containment Purge (VQ)**
5. (a) Applicable Construction Code ASME Section III 19 71 Edition, W73 Addenda, None Code Case
   (b) Applicable Edition of Section XI Used for Repair/Replacement Activity **2001** Edition / **2003** Addenda
   (c) Section XI Code Case(s) NONE
6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
EQUALIZING DEVICE (PIVOT SHAFT) PN: 7M021-100-7	TRENTIC	HT# 736366 LOT# 50132266	N/A	VALVE CAT ID# 1420998-1 UTC# 0002817047	2008	REMOVED	NO
EQUALIZING DEVICE (PIVOT SHAFT) PN: 7M021-100-7	TRENTIC	HT# 736366 LOT# 50193576	N/A	VALVE CAT ID# 1420998-1 UTC# 0002817047	2010	INSTALLED	NO
EQUALIZING DEVICE (HEX HEAD BOLT) PN: 7M021-100-29	NOVA	HT# 533740 LOT# 50150355	N/A	VALVE CAT ID# 1420998-1 UTC# 0002817047	2008	REMOVED	NO
EQUALIZING DEVICE (HEX HEAD BOLT) PN: 7M021-100-29	NOVA	HT# CR533740 LOT# 50194461	N/A	VALVE CAT ID# 1420998-1 UTC# 0002817047	2010	INSTALLED	NO
EQUALIZING DEVICE (HEX NUT) PN: 7M021-100-31	NOVA	HT# Q9641 LOT# 50150348	N/A	VALVE CAT ID# 1420998-1 UTC# 0002817047	2008	REMOVED	NO
EQUALIZING DEVICE (HEX NUT) PN: 7M021-100-31	NOVA	HT# 990200 LOT# 50150357	N/A	VALVE CAT ID# 1420998-1 UTC# 0002817047	2010	INSTALLED	NO

7. Description of Work VENDOR REPLACED PIVOT SHAFT AND BOLTING ON EQUALIZING DEVICE
   EQUALIZING DEVICE S/N: EQ-2-7M021-6
8. Test Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Exempt ☐
   Other ☐ Pressure 55.06 psi Test Temp. 75 °F

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks P.O. 00454346
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp **Not Applicable**

Certificate of Authorization No. **Not Applicable**

Signed [illegible] RR Coord Date 3-17, 20 10

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 or Province of **Illinois** and employed by **HSB CT** of **Hartford, CT** have inspected the components described in this Owner's Report during the period 12/14/09 to 3/12/10, 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.

[illegible] Commissions 166-1854

Inspector's Signature National Board, State Province, and Endorsements

Date: March 17, 20 10

ATTACHMENT 5
Repair Specification
Page 1 of 2

Purchase Order **00454346** P.O. Rev **0** Date **12-14-09**

Repair Organization
Trentec

The following requirements shall be completed or imposed for the procurement of a "Repair Organization" performing ASME Section XI Repairs/Replacements to ASME components.

1) Description of Work

P.O. Rev **0** **Vendor to refurbish equalizing device (S/N - EQ-2-7M021-6), (CAT ID# 1420998-1), UTC# 2817047.**

Replace Pivot Shaft (Dwg. No. 7M021-100) Piece No. 7)

2) Applicable Repair Code
Construction Code: ASME Section III, Class-MC, Subsection NE, 1971 Edition / Winter of 1973 Addenda
Repair / Replacement Code: ASME Section XI, Class-MC, 2001 Edition / 2003 Addenda

3) Program Requirements

☐ Work shall be performed in accordance with an "N" Certificate Program reviewed and accepted by Exelon Nuclear Assessment.

☐ Work shall be performed in accordance with a National Board "NR" Certificate Program reviewed and accepted by Exelon Nuclear Assessment.

☒ Work shall be performed in accordance with a Quality Assurance Program approved by Exelon Nuclear Assessment and accepted by the ANII, with the following additional program requirements:
Completed work shall be certified to be in compliance with this Repair Specification and
ASME Section XI, **2001** Edition **2003** Addenda.

☐ Special process procedures shall be provided to the site for acceptance prior to use.

Completed documentation of work shall be submitted to the Repair/Replacement Engineer.

4) Examination

P.O. Rev **0** **None**

5) Testing

P.O. Rev **0** **Leakage Test**

6) Documentation

P.O. Rev 0

Vendor to suppy:

1. Certificate of Conformance

2. CMTR for Pivot Shaft - Piece No. 7 (to be reviewed by ANI)

.

ASME NIS-2 Form to be completed by Exelon personnel.

Initial Review:

P.O. Rev	0	Repair / Replacement Engineer:	[signature]	Date:	12-14-09
		ANII Concurrence:	[signature]	Date:	12/14/09
P.O. Rev	____	Repair / Replacement Engineer:		Date:	
		ANII Concurrence:		Date:	
P.O. Rev	____	Repair / Replacement Engineer:		Date:	
		ANII Concurrence:		Date:	
P.O. Rev	____	Repair / Replacement Engineer:		Date:	
		ANII Concurrence:		Date:	
P.O. Rev	____	Repair / Replacement Engineer:		Date:	
		ANII Concurrence:		Date:	

ATTACHMENT 5
Repair Specification
Page 2 of 2

7) Final Acceptance - All documentation shall be accepted by the Repair/Replacement Engineer prior to purchase order closeout.

8) Remarks
Vendor "Trentec" replaced the Pivot Shaft, Hex Head Bolts and Hex Nuts. Vendor supplied the replacement parts and performed a pressure test to verify leakage.

Final Review:

Repair / Replacement Engineer: _____ Date: 3-17-10
ANII Review: _____ Date: 3/17/10

Removed / Installed

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

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

Not to Exceed One Day's Production

1. Manufactured and certified by Trentec Division of Curtiss-Wright Flow Control Service Corp. (name and address of NPT Certificate Holder)

2. Manufactured for Exelon Generating Co. LLC, 4450 North German Church Rd. Byron, Ill. 61010-9794 (name and address of Purchaser)

3. Location of Installation Byron Nuclear Station Byron, Illinois (name and address)

4. Type: 7M021-100 (drawing no.) SA479-304 (mat'l. spec. no.) 17,800 (tensile strength) NA (CRN) 2008 (year built)

5. ASME Code, Section III, Division 1: 1971 (edition) Winter 1973 (addenda date) MC (class) N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) NA (no.) Revision NA Date NA

7. Remarks: Pneumatic Test Pressure @ 55 psi

8. Nom. thickness (in.) .154" Min. design thickness (in.) N/A Dia. ID (ft & in.) 2.06" Length overall (ft & in.) 11.69"

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) EQ-2-7M021-1		(26)	
(2) EQ-2-7M021-2		(27)	
(3) EQ-2-7M021-3		(28)	
(4) EQ-2-7M021-4		(29)	
(5) EQ-2-7M021-5		(30)	
(6) EQ-2-7M021-6		(31)	
(7) EQ-2-7M021-7		(32)	
(8) EQ-2-7M021-8		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure +50 /-3 psi. Temp. 304 °F. Hydro. test pressure N/A (unless applicable) at temp. °F

HOBCTIANTI

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

(12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Reprint (7/91)

1486777

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. EQ-2-7M021-1 through EQ-2-7M021-8

CERTIFICATION OF DESIGN

Design specifications certified by Keith T. Kostal (Sargent & Lundy) (when applicable) P.E. State Illinois Reg. no. 3537

Design report* certified by Timothy A. Geers (when applicable) P.E. State Ohio Reg. no. E-61084

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2934 Expires February 13, 2010.

Date 05/27/08 Name Trentec, Div. of CWFC Service Corp. (NPT Certificate Holder) Signed (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ohio and employed by HSBCT of Hartford, CT have inspected these items described in this Data Report on 5-27-2008, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 5-27-2008 Signed (Authorized Inspector) Commissions NB109014 N OH486 (Nat'l. Bd. Insp. endorsement and state or prov. and no.)

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