



Tech Spec 4.0.5

LG-15-093

August 4, 2015

Mr. Daniel Dorman, Regional Administrator  
U.S. Nuclear Regulatory Commission, Region 1  
2100 Renaissance Blvd Suite 100  
King of Prussia, PA 19406-2713

Limerick Generating Station, Unit 2  
Renewed Facility Operating License No. NFP-85  
Docket No. 50-353

Subject: Limerick Generating Station Unit 2 Inservice Inspections Summary Report for the  
Period April 19, 2013, through May 7, 2015

The Limerick Generating Station (LGS) Unit 2 Inservice Inspection Summary Report for the  
period April 19, 2013 through May 7, 2015, is submitted in accordance with ASME Section XI,  
Article IWA-6200 and Unit 2 Technical Specifications, Section 4.0.5.

There are no regulatory commitments contained in this letter.

If you have any questions or require additional information, please contact Mr. Mark DiRado at  
610-718-3530.

Respectfully,

A handwritten signature in black ink, appearing to read "R. W. Libra". To the right of the signature, the text "Faz RWL" is handwritten.

Richard W. Libra  
Vice President, Limerick Generating Station  
Exelon Generation Co., LLC

Attachment: ISI Summary Report, Limerick Generating Station Unit 2, Examination Dates  
April 19, 2013 through May 7, 2015

cc: S. Rutenkroger, USNRC Senior Resident Inspector, LGS  
NRC Document Control Desk

A047  
NRC


**ISI Summary Report**  
**Limerick Generating Station Unit 2**  
Refueling Outage: 2R13  
Commercial Service Date: January 8, 1990


Examination Dates  
04/19/2013 to 05/07/2015


Owner: Exelon Generating Company, LLC  
200 Exelon Way  
Kennett Square, PA 19348

Plant: Limerick Generating Station  
3146 Sanatoga Road  
Pottstown, PA 19464

Report Completion Date: 07/23/2015

Prepared By: Mark Weis 

Reviewed By: Michelle Karasek 

Reviewed By: Jody Morgan 

Approved By: Mark DiRado 

## **Table of Contents**

| <b>Section</b> | <b>Title</b>  | <b>Page Number</b> |
|----------------|---|--------------------|
| Form NIS-1     | Owner's Report For In-Service Inspections           | 3                  |
| Introduction   | Examination Period and Requirements                 | 5                  |
| Section 1      | Limerick 2R13 Component Examination Results         | 6                  |
| Section 1A     | Limerick 2R13 ISI Component Examination Results     | 8                  |
| Section 1B     | Limerick 2R13 IVVI Component Examination Results    | 18                 |
| Section 1C     | Limerick 2R13 Pressure Test Examination Results     | 42                 |
| Section 2      | Summary of Conditions Observed                      | 45                 |
| Section 3      | Summary of ASME Section XI Repairs and Replacements | 57                 |
| Form NIS-2     | Owner's Reports for Repairs and Replacements        | 60                 |

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

1. Owner Exelon Generation Company, LLC, 200 Exelon Way, Kennett Square, PA 19348  
(Name and Address of Owner)

2. Plant Limerick Generating Station, 3146 Sanatoga Road, Pottstown, PA 19464  
(Name and Address of Plant)

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

5. Commercial Service Date January 8, 1990 6. National Board Number for Unit 3960

7. Components Inspected:

| Component or Appurtenance | Manufacturer or Installer | Manufacturer or Installer Serial No. | State or Province No. | National Board No. |
|---------------------------|---------------------------|--------------------------------------|-----------------------|--------------------|
| Nuclear Reactor           |                           |                                      |                       |                    |
| Vessel                    | Chicago Bridge & Iron Co. | B-5027                               | *                     | NB3960             |
|                           |                           |                                      |                       |                    |
| Primary Containment       | Bechtel/                  |                                      |                       |                    |
| Vessel                    | Chicago Bridge & Iron Co. | *                                    | *                     | PASPEC5382         |
|                           |                           |                                      |                       |                    |
| Class 1, 2, & 3           |                           |                                      |                       |                    |
| Piping Systems            |                           |                                      |                       |                    |
| & Supports                | *                         | *                                    | *                     | *                  |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |
|                           |                           |                                      |                       |                    |

\* Traceability per Form N-5 Data Report, Design Specification and Line Number.

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.

This Form (E00029) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300



FORM NIS-1 (Back)

8. Examination Dates 04/19/2013 to 05/07/2015
9. Inspection Period Identification: Period No. 3
10. Inspection Interval Identification: Third Interval, Inspection Program B (ISI); Second Interval, Inspection Program B (CISI)
11. Applicable Edition of Section XI 2001 Addenda 2003 and Erratum
12. Date/Revision of Inspection Plan: Procedure ER-LG-330-1001, Revision 10
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.

Refer to Section 1, Summary of In-Service Inspection Results

14. Abstract of Results of Examinations and Tests.

Refer to Section 2, Summary of Reportable Conditions Observed

15. Abstract of Corrective Measures.

Refer to Section 3, Summary of ASME Section XI Repairs and Replacements

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 7/23/2015 Signed Exelon Generation Co., LLC By [Signature]  
Owner

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period 04/19/2013 to 05/07/2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owner's Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes 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] Commissions 14396 A,N,I PA3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JULY 27, 2015

## **Introduction**

### **Examination Period and Requirements**

During the period from April 19, 2013 to May 07, 2015 In-Service Inspections were performed at Limerick Generating Station Unit 2. Unit 2 was shut down for the thirteenth refuel outage during the period of April 13, 2015 through May 07, 2015.

The examinations of the Reactor Pressure Vessel and Class 1, 2, and 3 Piping Systems and Supports were completed in accordance with ASME Section XI, 2001 Edition with the 2003 Addenda and Erratum. These examinations will be credited towards the third period of the third ten-year Inservice Inspection (ISI) interval.

The only Class MC components examined during the thirteenth refueling outage were the bolts associated with the Containment Equipment Hatch and a limited inspection of the suppression pool liner behind the 2B1-F214 and 2D1-F214 core spray suction strainers. This area was made accessible through the removal of the 2B1-F214 and 2D1-F214 core spray suction strainers from their respective penetrations. No Class CC components were examined during 2R13.

Desludging of the entire suppression pool and large area recoating of the suppression pool liner were performed as part of the coating maintenance plan.

In addition to ASME Section XI In-Service Inspections, Augmented In-Service Inspections were performed in accordance with the following regulatory requirements and industry guidance.

|                    |   |
|--------------------|---|
| AUG-09             | Limerick Generating Station Augmented Inspection Program for Examination of the RPV Closure Head Lifting Lugs |
| NUREG-0619         | BWR Feedwater Nozzle and Control Rod Drive Return Line Nozzle Cracking with Generic Letter 81-11              |
| NUREG-0800         | No Break Boundaries   |
| FSAR Table 3.2-1   | Non-Q RPV Internal Components   |
| BWRVIP-18, Rev 1-A | Core Spray Internals Inspection and Flaw Evaluation Guideline   |
| BWRVIP-26-A        | Top Guide Inspection and Flaw Evaluation Guidelines   |
| BWRVIP-41, Rev 3   | Jet Pump Inspection and Flaw Evaluation Guideline   |
| BWRVIP-42-A        | LPCI Coupling Inspection and Flaw Evaluation Guideline  |
| BWRVIP-48-A        | Pressure Vessel ID Attachment Welds Inspection and Flaw Evaluation Guideline                                  |
| BWRVIP-76, Rev 1-A | BWR Core Shroud Inspection and Flaw Evaluation Guideline  |
| BWRVIP-139-A       | Steam Dryer Inspection and Flaw Evaluation Guideline  |

## Section 1: Summary of In-Service Inspection Results

| <b>Limerick Unit 2 - Number and Percentage of ISI Examinations Completed</b> |       |                             |                   |      |                         |                   |                         |                   |        |                         |
|--|-------|-----------------------------|-------------------|------|-------------------------|-------------------|-------------------------|-------------------|--------|-------------------------|
| Category   | Notes | Total Exams in the Interval | Exams in Period 1 |      | Percentage for Period 1 | Exams in Period 2 | Percentage for Period 2 | Exams in Period 3 |        | Percentage for Period 3 |
|  |       |                             | 2R09              | 2R10 |                         | 2R11              |                         | 2R12              | 2R13   |                         |
| B-A  |       | 31                          | 3.66              | 11.5 | 49%                     | 6.66              | 21.5%                   | 5.5               | 3.66   | 29.5%                   |
| B-D  | 1     | 34                          | 16                | 18   | 47.1%                   | 6                 | 17.6%                   | 10                | 2      | 35.3%                   |
| B-G-1  |       | 336                         | 32                | 112  | 42.9%                   | 92                | 27.4%                   | 0                 | 100    | 29.7%                   |
| B-G-2  | 3     | N/A                         | 3                 | 1    | N/A                     | 3                 | N/A                     | 3                 | 5      | N/A                     |
| B-K  |       | 7                           | .66               | 2    | 38.0%                   | 1.66              | 23.7%                   | .66               | 4      | 66.6%                   |
| B-L-2  | 3     | N/A                         | 0                 | 0    | N/A                     | 0                 | N/A                     | 0                 | 0      | N/A                     |
| B-M-2  | 3     | N/A                         | 2                 | 0    | N/A                     | 1                 | N/A                     | 0                 | 3      | N/A                     |
| B-N-1  | 2     | N/A                         | N/A               | N/A  | N/A                     | N/A               | N/A                     | N/A               | N/A    | N/A                     |
| B-N-2  | 2     | N/A                         | N/A               | N/A  | N/A                     | N/A               | N/A                     | N/A               | N/A    | N/A                     |
| B-P  |       | 10                          | 2                 | 2    | 40%                     | 2                 | 20%                     | 2                 | 2      | 40%                     |
| C-A  | 13    | 4                           | 0                 | 2    | 50%                     | 1                 | 25%                     | 1                 | 0 (2)  | 25%                     |
| C-B  | 13    | 4                           | 0                 | 2    | 50%                     | 1                 | 25%                     | 0                 | 1 (5)  | 25%                     |
| C-C  | 13    | 11                          | 2                 | 3    | 45.5%                   | 3                 | 27.3%                   | 3                 | 1 (2)  | 36.4%                   |
| C-G  | 14    | 10                          | 2                 | 2    | 40%                     | 2                 | 20%                     | 2                 | 0      | 20%                     |
| C-H  | 4, 5  | 157                         | 14                | 37   | 35.6%                   | 5/28              | 28.7%                   | 17/18             | 25     | 27.4%                   |
| D-A  | 12    | 36                          | 4                 | 8    | 33.3%                   | 16                | 44.4%                   | 8                 | 4 (8)  | 33.3%                   |
| D-B  | 4, 5  | 76                          | 2                 | 15   | 32.9%                   | 8/9               | 31.6%                   | 15/2              | 9      | 14.5%                   |
| F-A  | 12    | 298                         | 55                | 62   | 39.3%                   | 87.33             | 29.3%                   | 63                | 41 (8) | 37.6%                   |
| R-A  | 6, 11 | 123                         | 24                | 36   | 44.4%                   | 28                | 21.9%                   | 25                | 20     | 36.6%                   |

| <b>Limerick Unit 2 - Number and Percentage of Containment ISI Examinations Completed</b> |       |                             |                   |      |                         |                   |                         |                   |      |                         |
|--|-------|-----------------------------|-------------------|------|-------------------------|-------------------|-------------------------|-------------------|------|-------------------------|
| Category   | Notes | Total Exams in the Interval | Exams in Period 1 |      | Percentage for Period 1 | Exams in Period 2 | Percentage for Period 2 | Exams in Period 3 |      | Percentage for Period 3 |
|  |       |                             | 2R09              | 2R10 |                         | 2R11              |                         | 2R12              | 2R13 |                         |
| E-A  | 7, 10 | 27                          | 0                 | 9    | 33.3%                   | 9                 | 33.3%                   | 9                 | 0    | 33.3%                   |
| E-C  | 9     | 0                           | 0                 | 0    | N/A                     | 0                 | N/A                     | 0                 | 0    | N/A                     |
| L-A  | 8     | 6                           | 0                 | 3    | N/A                     | 0                 | N/A                     | 3                 | 0    | N/A                     |

### Notes

- 1 Relief Request I3R-14 was approved to implement Code Case N-702; this reduced the number of RPV nozzles required to be inspected. This was implemented in 2R11. Only 16 of the 34 inspections completed in the first period are credited to the first period of the third interval.
- 2 Relief Request I3R-03 was approved to use the BWRVIP guidelines for examining these welds. No counts will be recorded for these Code Categories.
- 3 Inspections are only required when components are disassembled; no percentages will be determined for this Code Category.
- 4 For 2R11 and 2R12, there are two numbers; the first number is the number of inspections that were completed in the previous period but reported in period of the outage report. The second number is the number of inspections completed in the period of the outage report.
- 5 The remainder of the examinations will be completed by the end of the third period and reported in subsequent outage reports.
- 6 The total number of components changed during the second period and third period based on the PRA update.
- 7 The examinations performed for item number E1.11 bolting will not be recorded in the examination totals or the percentages because these inspections are only performed when the bolting is disconnected.
- 8 The code requirement is to complete the examination every 5 years, since the inspections can only be completed during an outage the examinations are completed every 4 years. The code percentages are not required for this Code Category.
- 9 In 2R12 and 2R13 (2<sup>nd</sup> CISI interval, 3<sup>rd</sup> period), inspections identified plates that met the E-C criteria. These plates will be inspected during the 1<sup>st</sup> period of the 3<sup>rd</sup> CISI interval per ASME Code requirements.
- 10 Examinations for item number E1.20 are only required once per interval. These examinations were completed in 2R11 however, the examinations are not counted in the completion percentage for Category E-A.
- 11 The total examinations for Category R-A do not include the VT-2 inspections on socket welds that are completed each outage.
- 12 The total number of components increased due to IR 1354863 ESW Supports not in the ISI Program. During 2R13, 4 of 12 Category D-A exams were scheduled for ASME Section XI credit. The remaining 8 exams were components

identified as part of IR 1354863 that were inspected for the first time. For Category F-A 41 of the exams were scheduled for ASME Section XI credit. The remaining 8 exams were components identified as part of IR 1354863 that were inspected for the first time.

- 13 The 2B RHR heat exchanger was replaced during 2R11 (2<sup>nd</sup> period). The 2A and 2B RHR heat exchangers are no longer the same design and cannot be treated as a family. During the 3<sup>rd</sup> period, examinations performed on the 2A RHR heat exchanger were for ASME Section XI credit. The examinations performed on the 2B RHR heat exchanger were performed per the requirements of IWC-2412(b)(2) and are noted in parenthesis in the table.
- 14 Relief Request I3R-19 was approved to implement ASME Section XI, 2007 Edition with the 2008 Addenda in lieu of the 2001 Edition with the 2003 Addenda for Category C-G. This eliminates the need to perform any Category C-G inspections during 2R13.

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID   | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number   |
|--|-----------|----------|--------|--------|----------|---------|--|
| Description  | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments  |
| LIFTING LUG 090<br>DEG                                   | 725900    | AUG      | AUG    | MT     | 100%     | Accept  | XI-BH-4  |
| Lug to Closure Head<br>Weld                              | 1         | 09       |        |        |          |         | Augmented Examination  |
| AH   | 714600    | B-A      | ISI    | UT     | 100%     | Accept  | XI-RPV-2   |
| Closure Head Dollar<br>Plate Weld                        | 1         | B1.21    |        |        |          |         | Examined from 0° to 120°   |
| DE   | 714100    | B-A      | ISI    | UT     | 88.0%    | Accept  | XI-RPV-2   |
| Bottom Head Weld   | 1         | B1.22    |        |        |          |         | Limited Exam   |
| DG 13  | 714300    | B-A      | ISI    | UT     | 22.9%    | Accept  | XI-RPV-2   |
| Bottom Head Weld   | 1         | B1.22    |        |        |          |         | Limited Exam   |
| DG 14  | 714400    | B-A      | ISI    | UT     | 22.9%    | Accept  | XI-RPV-2   |
| Bottom Head Weld   | 1         | B1.22    |        |        |          |         | Limited Exam   |
| AG   | 714500    | B-A      | ISI    | MT     | 100%     | Accept  | XI-RPV-2   |
| Closure Head to<br>Flange Weld                           | 1         | B1.40    |        |        |          |         | Examined from 0° to 120°. MT examined<br>only in accordance with Code Case N-747   |
| N7-IR  | 715900    | B-D      | ISI    | UT     | 100%     | Accept  | XI-RPV-2   |
| RPV Vent Nozzle<br>Inside Radius<br>Section              | 1         | B3.100   |        |        |          |         |  |
| N7   | 715800    | B-D      | ISI    | UT     | 92%      | Accept  | XI-RPV-2   |
| RPV Vent Nozzle to<br>Vessel Weld                        | 1         | B3.90    |        |        |          |         |  |
| RPV CLOSURE<br>HEAD NUTS                                 | 724300    | B-G-1    | ISI    | VT     | 100%     | Accept  | XI-RPV-2   |
| Nuts SN 1 - SN 76  | 1         | B6.10    |        |        |          |         | Examined Nuts 27 thru 51   |
| RPV CLOSURE<br>STUDS                                     | 724400    | B-G-1    | ISI    | UT     | 100%     | Accept  | XI-RPV-2   |
| Studs SN 1 - SN 76                                       | 1         | B6.20    |        |        |          |         | Examined Studs 27 thru 51  |
| THREADED HOLES<br>IN RPV FLANGE                          | 724600    | B-G-1    | ISI    | UT     | 98.4%    | Accept  | XI-RPV-2   |
| Holes SN1 - SN 76  | 1         | B6.40    |        |        |          |         | Examined Threaded Holes 27 thru 51   |
| RPV CLOSURE<br>WASHERS                                   | 724700    | B-G-1    | ISI    | VT     | 100%     | Accept  | XI-RPV-2   |
| Washers SN 1 - SN<br>76                                  | 1         | B6.50    |        |        |          |         | Examined Washers 27 thru 51  |
| RPV-2IN N6A<br>(BOLTING)                                 | 535700    | B-G-2    | ISI    | VT     | 100%     | Reject  | XI-BF-6  |
| Head Spray Flange<br>12 1 1/8" Studs & 24<br>1 1/8" Nuts | 1         | B7.10    |        |        |          |         | CNF 014, AR 2488812. Two studs<br>identified with damaged threads in zone<br>of thread engagement. Damaged studs<br>were replaced. |

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID  | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number  |
|---|-----------|----------|--------|--------|----------|---------|---|
| Description   | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments   |
| RPV-2IN N6A<br>(BOLTING)                                      | 535700    | B-G-2    | PSI    | VT     | 100%     | Accept  | XI-BF-6   |
| Head Spray Flange<br>12 1 1/8" Studs & 24<br>1 1/8" Nuts      | 1         | B7.10    |        |        |          |         | CNF 014, AR 2488812. PSI of two<br>replacement studs.   |
| RPV-2IN N6B<br>(BOLTING)                                      | 535800    | B-G-2    | ISI    | VT     | 100%     | Reject  | XI-BF-6   |
| Head Spray Flange<br>12 Studs/24 N                            | 1         | B7.10    |        |        |          |         | CNF 015, AR 2488818. One stud<br>identified with damaged threads in zone<br>of thread engagement. Damaged stud<br>was replaced.   |
| RPV-2IN N6B<br>(BOLTING)                                      | 535800    | B-G-2    | PSI    | VT     | 100%     | Accept  | XI-BF-6   |
| Head Spray Flange<br>12 Studs/24 N                            | 1         | B7.10    |        |        |          |         | CNF 015, AR 2488818. PSI of one<br>replacement stud.  |
| RPV-2IN N7<br>(BOLTING)                                       | 722930    | B-G-2    | ISI    | VT     | 100%     | Accept  | XI-BF-7   |
| Head Spray Flange 8<br>1 1/8" Studs & 16 1<br>1/8" Nuts       | 1         | B7.10    |        |        |          |         |   |
| HV-41-2F022A<br>Bolting                                       | 172500    | B-G-2    | ISI    | VT     | 100%     | Accept  | XI-APE-2MS-LA   |
| 26" A.O.Globe Valve<br>Bonnet Bolting                         | 1         | B7.70    |        |        |          |         |   |
| HV-51-2F050B<br>Bolting                                       | 327600    | B-G-2    | ISI    | VT     | 100%     | Accept  | XI-DCA-204-3  |
| 12" A.O. Check Valve<br>Bonnet and Hinge<br>Pin Cover Bolting | 1         | B7.70    |        |        |          |         |   |
| HV-51-2F041D<br>Bolting                                       | 352200    | B-G-2    | ISI    | VT     | 100%     | Accept  | XI-DLA-212-1  |
| 12" Check Valve<br>Bonnet and Hinge<br>Pin Cover Bolting      | 1         | B7.70    |        |        |          |         |   |
| CRD HOUSING<br>FLANGE BOLTING                                 | 739700    | B-G-2    | ISI    | VT     | 100%     | Accept  | XI-BN-6   |
| 185 CRD Housing<br>Flanges - 8 Cap<br>Screws per Flange       | 1         | B7.80    |        |        |          |         | Replaced the following CRDs,<br>CRD 06-27, CRD 10-31,<br>CRD 10-39, CRD 14-23,<br>CRD 14-31, CRD 18-31,<br>CRD 22-43, CRD 22-47,<br>CRD 26-03, CRD 26-23,<br>CRD 30-39, CRD 34-31,<br>CRD 38-03, CRD 42-03,<br>CRD 42-39, CRD 46-19,<br>CRD 46-23, CRD 50-19,<br>CRD 50-31, CRD 50-43 |
| VRR-2RD-2A-19<br>SWC  | 614600    | B-K      | ISI    | PT     | 100%     | Accept  | XI-VRR-2RD-2A   |
| 2 1/2"x2 1/2"x2" Lug<br>FOR 28" Pipe (HA2)                    | 1         | B10.20   |        |        |          |         |   |

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID<br>Description  | Summary #<br>Class | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Code<br>Coverage | Exam<br>Results        | Iso Number<br>Exam Comments |
|--|--------------------|------------------|----------------|----------------|------------------|------------------------|-----------------------------|
| VRR-2RD-2A-19<br>SWD<br>2 1/2"x2 1/2"x2" Lug<br>FOR 28" Pipe (HA2)             | 614700<br>1        | B-K<br>B10.20    | ISI            | PT             | 100%             | Accept                 | XI-VRR-2RD-2A               |
| VRR-2RD-2A-19<br>SWE<br>2 1/2"x2 1/2"x2" Lug<br>FOR 28" Pipe (HA2)             | 614800<br>1        | B-K<br>B10.20    | ISI            | PT             | 100%             | Accept                 | XI-VRR-2RD-2A               |
| VRR-2RD-2A-19<br>SWF<br>2 1/2"x2 1/2"x2" Lug<br>FOR 28" Pipe (HA2)             | 614900<br>1        | B-K<br>B10.20    | ISI            | PT             | 100%             | Accept                 | XI-VRR-2RD-2A               |
| HV-41-2F022A<br>Internal Surfaces<br>26" A.O.Globe Valve<br>Internal Surfaces  | 172600<br>1        | B-M-2<br>B12.50  | ISI            | VT             | 100%             | Accept                 | XI-APE-2MS-LA               |
| HV-51-2F050B<br>Internal Surfaces<br>12" A.O. Check Valve<br>Internal Surfaces | 327700<br>1        | B-M-2<br>B12.50  | ISI            | VT             | 100%             | Accept                 | XI-DCA-204-3                |
| HV-51-2F041D<br>Internal Surfaces<br>12" Check Valve<br>Internal Surfaces      | 352400<br>1        | B-M-2<br>B12.50  | ISI            | VT             | 100%             | Accept                 | XI-DLA-212-1                |
| 2BE-205R W4<br>Shell Ring 1 to<br>Flange Weld                                  | 362301<br>2        | C-A<br>C1.10     | ISI            | UT             | 96%              | Accept                 | 340-H-VC-00107              |
| 2BE-205R W7<br>Shell Ring 3 to Shell<br>Head Weld                              | 362304<br>2        | C-A<br>C1.20     | ISI            | UT             | 100%             | Accept                 | 340-H-VC-00107              |
| 2BE-205R N-4-1<br>Outlet Nozzle (N-4)<br>to Shell Weld                         | 362501<br>2        | C-B<br>C2.21     | ISI            | UT             | 53%              | Accept<br>Limited Exam | 340-H-VC-00107              |
| 2BE-205R N-4-1<br>Outlet Nozzle (N-4)<br>to Shell Weld                         | 362501<br>2        | C-B<br>C2.21     | ISI            | MT             | 91%              | Accept                 | 340-H-VC-00107              |
| 2BE-205R N-4-1 IR<br>Outlet Nozzle (N-4)<br>Inner Radius                       | 362502<br>2        | C-B<br>C2.22     | ISI            | UT             | 100%             | Accept                 | 340-H-VC-00107              |
| 2AE-205 N-4-1 Inner<br>Radius<br>Outlet Nozzle (N-4)<br>Inner Radius           | 366500<br>2        | C-B<br>C2.22     | ISI            | UT             | 100%             | Accept                 | XI-2E-205                   |
| 2BE-205R N-3-W14<br>Inlet Nozzle (N-3) to<br>Reinforcement Plate               | 366401<br>2        | C-B<br>C2.31     | ISI            | MT             | 100%             | Accept                 | 340-H-VC-00107              |
| 2BE-205R N-3-W15<br>Inlet Nozzle (N-3)<br>Reinforcement Plate<br>to Shell      | 366402<br>2        | C-B<br>C2.31     | ISI            | MT             | 100%             | Accept                 | 340-H-VC-00107              |

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID   | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number  |
|--|-----------|----------|--------|--------|----------|---------|---|
| Description  | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments   |
| 2BE-205R N-3-W16   | 366403    | C-B      | ISI    | VT     | 100%     | Accept  | 340-H-VC-00107  |
| Inlet Nozzle (N-3)<br>Nozzle to Shell  | 2         | C2.33    |        |        |          |         | VT-2 exam performed as part of system pressure test           |
| 2BE-205R M-1(IA)   | 365101    | C-C      | ISI    | MT     | 100%     | Accept  | 340-H-VC-00107  |
| Mounting Support to<br>Shell (West)  | 2         | C3.10    |        |        |          |         |   |
| 2BE-205R T-1(IA)   | 365201    | C-C      | ISI    | PT     | 100%     | Accept  | 340-H-VC-00107  |
| Tie Down Bracket to<br>Shell (West)  | 2         | C3.10    |        |        |          |         |   |
| 2AE-205 MS-1   | 365400    | C-C      | ISI    | PT/MT  | 100%     | Accept  | XI-2E-205   |
| Mounting Support to<br>Shell (Ring #2)   | 2         | C3.10    |        |        |          |         | A combination of PT and MT were used to achieve 100% coverage |
| 2A-E586-H001 (IA)  | 760670    | D-A      | ISI    | VT     | 100%     | Accept  | 2A-E586-H001 R0   |
| Inlet Side Heat<br>Exchanger to<br>Pedestal Integral<br>Attachment                       | 3         | D1.10    |        |        |          |         |   |
| 2A-E586-H002 (IA)  | 760690    | D-A      | ISI    | VT     | 100%     | Accept  | 2A-E586-H002 R0   |
| Inlet Side Heat<br>Exchanger to JW<br>Heat Exchanger<br>Integral Attachment              | 3         | D1.10    |        |        |          |         |   |
| 2A-E586-H004 (IA)  | 760720    | D-A      | ISI    | VT     | 100%     | Accept  | 2A-E586-H004 R0   |
| U Tube Side Heat<br>Exchanger to JW<br>Heat Exchanger<br>Integral Attachment             | 3         | D1.10    |        |        |          |         |   |
| 2A-E586-H005 (IA)  | 760740    | D-A      | ISI    | VT     | 100%     | Accept  | 2A-E586-H005 R0   |
| U Tube Side Heat<br>Exchanger to<br>Pedestal Integral<br>Attachment                      | 3         | D1.10    |        |        |          |         |   |
| 2A-E507-H001 (IA)  | 761230    | D-A      | ISI    | VT     | 100%     | Accept  | 2A-E507-H001 R0   |
| Inlet Side Heat<br>Exchanger to<br>Intercooler Heat<br>Exchanger Integral<br>Attachment  | 3         | D1.10    |        |        |          |         |   |
| 2A-E507-H003 (IA)  | 761260    | D-A      | ISI    | VT     | 100%     | Accept  | 2A-E507-H003 R0   |
| Outlet Side Heat<br>Exchanger to<br>Intercooler Heat<br>Exchanger Integral<br>Attachment | 3         | D1.10    |        |        |          |         |   |
| 2A-E506-H001 (IA)  | 761590    | D-A      | ISI    | VT     | 100%     | Accept  | 2A-E506-H001 R0   |
| Inlet Side Heat<br>Exchanger to<br>Pedestal Integral<br>Attachment                       | 3         | D1.10    |        |        |          |         |   |



## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID   | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number  |
|--|-----------|----------|--------|--------|----------|---------|---|
| Description  | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments   |
| 2A-E506-H002 (IA)  | 761610    | D-A      | ISI    | VT     | 100%     | Accept  | 2A-E506-H002 R0   |
| Outlet Side Heat Exchanger to Pedestal Integral Attachment | 3         | D1.10    |        |        |          |         |   |
| HBC-258-1 FW3A   | 080000    | D-A      | ISI    | VT     | 100%     | Accept  | HBC-258-1   |
| Lug HBC-258-1-2 to 8" Pipe (H3)                            | 3         | D1.20    |        |        |          |         |   |
| HBC-258-1 FW3B   | 080100    | D-A      | ISI    | VT     | 100%     | Accept  | HBC-258-1   |
| Lug HBC-258-1-3 to 8" Pipe (H3)                            | 3         | D1.20    |        |        |          |         |   |
| HBC-258-1 FW3C   | 080200    | D-A      | ISI    | VT     | 100%     | Accept  | HBC-258-1   |
| Lug HBC-258-1-4 to 8" Pipe (H3)                            | 3         | D1.20    |        |        |          |         |   |
| HBC-258-1 FW3D   | 080300    | D-A      | ISI    | VT     | 100%     | Accept  | HBC-258-1   |
| Lug HBC-258-1-5 to 8" Pipe (H3)                            | 3         | D1.20    |        |        |          |         |   |
| DCA-277-E01-H005   | 611100    | F-A      | ISI    | VT     | 100%     | Accept  | SP-DCA-277-E1-H5 R1   |
| Rigid Support  | 1         | F1.10-A  |        |        |          |         |   |
| DCA-277-E01-H010   | 611400    | F-A      | ISI    | VT     | 100%     | Accept  | SP-DCA-277-E1-H10 R1  |
| Rigid Support  | 1         | F1.10-A  |        |        |          |         |   |
| DCA-202-E01-H007   | 686000    | F-A      | ISI    | VT     | 100%     | Accept  | XI-DCA-202-E1 SH. 1   |
| Rigid Support  | 1         | F1.10-A  |        |        |          |         |   |
| DCA-212-E02-H009   | 694800    | F-A      | ISI    | VT     | 100%     | Accept  | SP-DCA-212-E2-H9 R1   |
| Rigid Support  | 1         | F1.10-A  |        |        |          |         | CNF 009, AR 2487081   |
| DCA-212-E02-H007   | 694900    | F-A      | ISI    | VT     | 100%     | Accept  | SP-DCA-212-E2-H7 R2   |
| Rigid Support  | 1         | F1.10-A  |        |        |          |         | CNF 008, AR 2487080   |
| DCA-212-E02-H005   | 695000    | F-A      | ISI    | VT     | 100%     | Accept  | SP-DCA-212-E2-H7 Rev 2  |
| Rigid Support  | 1         | F1.10-A  |        |        |          |         |   |
| DLA-210-1 FW2  | 027200    | F-A      | ISI    | VT     | 100%     | Accept  | DLA-210-1 R15   |
| Anchor: Flued Head X-16B to Penetration Sleeve             | 1         | F1.10-B  |        |        |          |         |   |
| DLA-207-H003   | 111600    | F-A      | AUG    | VT     | 100%     | Accept  | XI-DLA-207-1 SH. 1  |
| Variable Support   | 1         | F1.10-C  |        |        |          |         | Augmented inspection performed every outage per ECR 96-02124. CNF 005, AR 2486559 |
| DLA-207-H004   | 112200    | F-A      | AUG    | VT     | 100%     | Accept  | DLA-207-H4 R3   |
| Variable Support   | 1         | F1.10-C  |        |        |          |         | Augmented inspection performed every outage per ECR 96-02124. CNF 006, AR 2486561 |
| DLA-207-H013   | 112300    | F-A      | ISI    | VT     | 100%     | Accept  | DLA-207-H13 R3  |
| Mechanical Snubber   | 1         | F1.10-C  |        |        |          |         |   |
| DLA-208-H003   | 118700    | F-A      | AUG    | VT     | 100%     | Accept  | DLA-208-H3 R2   |
| Variable Support   | 1         | F1.10-C  |        |        |          |         | Augmented inspection performed every outage per ECR 96-02124. CNF 007, AR 2486563 |

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID               | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number  |
|----------------------------|-----------|----------|--------|--------|----------|---------|---|
| Description                | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments   |
| DLA-208-H004               | 119300    | F-A      | AUG    | VT     | 100%     | Accept  | DLA-208-H4 R3   |
| Variable Support           | 1         | F1.10-C  |        |        |          |         | Augmented inspection performed every outage per ECR 96-02124. |
| DCA-277-E01-H004           | 611000    | F-A      | ISI    | VT     | 100%     | Accept  | XI-DCA-277-E1 SH. 1   |
| Variable Support           | 1         | F1.10-C  |        |        |          |         |   |
| DCA-277-E01-H008           | 611300    | F-A      | ISI    | VT     | 100%     | Accept  | SP-DCA-277-E1-H8 R2   |
| Variable Support           | 1         | F1.10-C  |        |        |          |         |   |
| GBB-212-H041               | 044800    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-212-H 41 R1   |
| Rigid Support              | 2         | F1.20-A  |        |        |          |         | CNF 001, AR 2485615   |
| HBB-220-H003               | 068700    | F-A      | ISI    | VT     | 100%     | Accept  | XI-HBB-220-3 SH. 1  |
| Rigid Support              | 2         | F1.20-A  |        |        |          |         |   |
| GBB-218-H067               | 446500    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-218-H67 R2  |
| Rigid Support              | 2         | F1.20-A  |        |        |          |         |   |
| GBB-218-H073               | 446600    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-218-H73 R1  |
| Rigid Support              | 2         | F1.20-A  |        |        |          |         |   |
| GBB-218-H074               | 446700    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-218-H74 R1  |
| Rigid Support              | 2         | F1.20-A  |        |        |          |         |   |
| GBB-218-H077               | 446900    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-218-H77 R1  |
| Rigid Support              | 2         | F1.20-A  |        |        |          |         |   |
| GBB-218-H075               | 447000    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-218-H75 R1  |
| Rigid Support              | 2         | F1.20-A  |        |        |          |         |   |
| GBB-212-H901               | 043700    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-212-H901 R1   |
| Anchor                     | 2         | F1.20-B  |        |        |          |         |   |
| GBB-218-H901               | 439800    | F-A      | ISI    | VT     | 100%     | Accept  | XI-GBB-218-2 SH. 1  |
| Anchor                     | 2         | F1.20-B  |        |        |          |         |   |
| GBB-213-H013               | 049605    | F-A      | ISI    | VT     | 100%     | Accept  | XI-GBB-213-2 SH. 1  |
| Mechanical Snubber (A & B) | 2         | F1.20-C  |        |        |          |         |   |
| HBB-220-H001               | 068800    | F-A      | ISI    | VT     | 100%     | Accept  | HBB-220-H1 R4   |
| Variable Support           | 2         | F1.20-C  |        |        |          |         |   |
| EBB-207-H006               | 239200    | F-A      | ISI    | VT     | 100%     | Accept  | XI-EBB-207-2 SH. 1  |
| Variable Support           | 2         | F1.20-C  |        |        |          |         |   |
| GBB-202-H005               | 390300    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-202-H5 R4   |
| Variable Support           | 2         | F1.20-C  |        |        |          |         |   |
| GBB-202-H007               | 390600    | F-A      | ISI    | VT     | 100%     | Accept  | GBB-202-H7 R5   |
| Variable Support           | 2         | F1.20-C  |        |        |          |         |   |
| GBB-205-H008               | 403300    | F-A      | ISI    | VT     | 100%     | Accept  | XI-GBB-205-1 SH. 1  |
| Mechanical Snubber         | 2         | F1.20-C  |        |        |          |         |   |
| GBB-205-H001               | 404900    | F-A      | ISI    | VT     | 100%     | Accept  | XI-GBB-205-1 SH. 1  |
| Variable Support           | 2         | F1.20-C  |        |        |          |         |   |

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID                        | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number  |
|-------------------------------------|-----------|----------|--------|--------|----------|---------|---|
| Description                         | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments                                     |
| GBB-219-H093                        | 469705    | F-A      | ISI    | VT     | 100%     | Accept  | XI-GBB-219-4 SH. 1                                |
| Mechanical Snubber<br>(A & B)       | 2         | F1.20-C  |        |        |          |         |   |
| GBB-230-H001                        | 920620    | F-A      | PSI    | VT     | 100%     | Accept  | XI-GBB-230-1                                      |
| Variable Support                    | 2         | F1.20-C  |        |        |          |         | PSI for FLEX mod                                  |
| HBC-243-H019                        | 076750    | F-A      | ISI    | VT     | 100%     | Accept  | HBC-243-3 SH. 1                                   |
| Rigid Support                       | 3         | F1.30-A  |        |        |          |         | CNF 003, AR 2485386                               |
| HBC-243-H018                        | 076900    | F-A      | ISI    | VT     | 100%     | Accept  | HBC-243-3 SH. 1                                   |
| Rigid Support                       | 3         | F1.30-A  |        |        |          |         | CNF 002, AR 2485369                               |
| HBC-252-H020                        | 079300    | F-A      | ISI    | VT     | 100%     | Accept  | HBC-252-H20 R1                                    |
| Rigid Support                       | 3         | F1.30-A  |        |        |          |         |   |
| HBC-252-H021                        | 079550    | F-A      | ISI    | VT     | 100%     | Accept  | HBC-252-H21 SHT1                                  |
| Rigid Support                       | 3         | F1.30-A  |        |        |          |         | CNF 004, AR 2485393                               |
| HBC-258-H003                        | 080900    | F-A      | ISI    | VT     | 100%     | Accept  | HBC-258-1 SH. 1                                   |
| Rigid Support                       | 3         | F1.30-A  |        |        |          |         |   |
| GBC-210-H005                        | 530300    | F-A      | ISI    | VT     | 100%     | Accept  | GBC-210-H5 R7                                     |
| Rigid Support                       | 3         | F1.30-A  |        |        |          |         |   |
| GBC-210-H006                        | 530400    | F-A      | ISI    | VT     | 100%     | Accept  | GBC-210-H6 R4                                     |
| Variable Support                    | 3         | F1.30-C  |        |        |          |         |   |
| 2BE-205R T-1                        | 363801    | F-A      | ISI    | VT     | 100%     | Accept  | 340-H-VC-00107                                    |
| Tie Down Bracket to<br>Shell (West) | 2         | F1.40    |        |        |          |         |   |
| 2BE-205R M-1                        | 364301    | F-A      | ISI    | VT     | 100%     | Accept  | 340-H-VC-00107                                    |
| Mounting Support to<br>Shell (West) | 2         | F1.40    |        |        |          |         |   |
| RPV STABILIZER<br>(000 DEG)         | 757200    | F-A      | ISI    | VT     | 100%     | Accept  | XI-FA-2   |
| Stabilizer Assembly<br>& Brackets   | 1         | F1.40    |        |        |          |         |   |
| RPV STABILIZER<br>(045 DEG)         | 757300    | F-A      | ISI    | VT     | 100%     | Accept  | XI-FA-2   |
| Stabilizer Assembly<br>& Brackets   | 1         | F1.40    |        |        |          |         |   |
| RPV STABILIZER<br>(090 DEG)         | 757400    | F-A      | ISI    | VT     | 100%     | Accept  | XI-FA-2   |
| Stabilizer Assembly<br>& Brackets   | 1         | F1.40    |        |        |          |         |   |
| RPV STABILIZER<br>(135 DEG)         | 757500    | F-A      | ISI    | VT     | 100%     | Accept  | XI-FA-2   |
| Stabilizer Assembly<br>& Brackets   | 1         | F1.40    |        |        |          |         |   |
| RPV SUPPORT                         | 758000    | F-A      | ISI    | VT     | 100%     | Accept  | XI-FA-1   |
| Support Skirt<br>Assembly           | 1         | F1.40    |        |        |          |         | Examined 0 - 120 degrees and 240 - 360<br>degrees |

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID   | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number   |
|--|-----------|----------|--------|--------|----------|---------|--|
| Description  | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments                                      |
| 2A-E586-H001   | 760660    | F-A      | ISI    | VT     | 100%     | Accept  | 2A-E586-H001 R0                                    |
| Inlet Side Heat Exchanger to Pedestal                    | 3         | F1.40    |        |        |          |         |  |
| 2A-E586-H002   | 760680    | F-A      | ISI    | VT     | 100%     | Accept  | 2A-E586-H002 R0                                    |
| Inlet Side Heat Exchanger to JW Heat Exchanger           | 3         | F1.40    |        |        |          |         |  |
| 2A-E586-H004   | 760710    | F-A      | ISI    | VT     | 100%     | Accept  | 2A-E586-H004 R0                                    |
| U Tube Side Heat Exchanger to JW Heat Exchanger          | 3         | F1.40    |        |        |          |         |  |
| 2A-E586-H005   | 760730    | F-A      | ISI    | VT     | 100%     | Accept  | 2A-E586-H005 R0                                    |
| U Tube Side Heat Exchanger to Pedestal                   | 3         | F1.40    |        |        |          |         |  |
| 2A-E507-H001   | 761220    | F-A      | ISI    | VT     | 100%     | Accept  | 2A-E507-H001 R0                                    |
| Inlet Side Heat Exchanger to Intercooler Heat Exchanger  | 3         | F1.40    |        |        |          |         |  |
| 2A-E507-H003   | 761250    | F-A      | ISI    | VT     | 100%     | Accept  | 2A-E507-H003 R0                                    |
| Outlet Side Heat Exchanger to Intercooler Heat Exchanger | 3         | F1.40    |        |        |          |         |  |
| 2A-E506-H001   | 761580    | F-A      | ISI    | VT     | 100%     | Accept  | 2A-E506-H001 R0                                    |
| Inlet Side Heat Exchanger to Pedestal                    | 3         | F1.40    |        |        |          |         |  |
| 2A-E506-H002   | 761600    | F-A      | ISI    | VT     | 100%     | Accept  | 2A-E506-H002 R0                                    |
| Outlet Side Heat Exchanger to Pedestal                   | 3         | F1.40    |        |        |          |         |  |
| DLA-207-1 S4A  | 108800    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DLA-207-1                                       |
| 12" Pipe to Safe End (GE)(Az. 30 Degrees)                | 1         | R1.11-1  |        |        |          |         |  |
| DLA-207-1 N4A1   | 720000    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DLA-207-1                                       |
| Safe End to Safe End (GE)(Az.30 Degrees)                 | 1         | R1.11-1  |        |        |          |         |  |
| DLA-207-1 N4A2   | 720200    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DLA-207-1                                       |
| Safe End to Nozzle (GE) (Az.30 Degrees)                  | 1         | R1.11-1  |        |        |          |         |  |
| DCA-277-E1 W3  | 610300    | R-A      | ISI    | VT     | 100%     | Accept  | XI-DCA-277-E1                                      |
| 2" Pipe to Valve 43-2F051A                               | 1         | R1.11-2S |        |        |          |         | VT-2 exam performed as part of GP-10 pressure test |
| DCA-285-E2 W7  | 612300    | R-A      | ISI    | VT     | 100%     | Accept  | XI-DCA-285-E2                                      |
| 2" Pipe to Valve 43-2F051B                               | 1         | R1.11-2S |        |        |          |         | VT-2 exam performed as part of GP-10 pressure test |

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID                  | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number   |
|-------------------------------|-----------|----------|--------|--------|----------|---------|--|
| Description                   | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments                                      |
| DCA-212-E2 W15                | 693300    | R-A      | ISI    | VT     | 100%     | Accept  | XI-DCA-212-E2                                      |
| 2" Elbow to Pipe              | 1         | R1.11-2S |        |        |          |         | VT-2 exam performed as part of GP-10 pressure test |
| HBB-208-1 FW3                 | 161800    | R-A      | ISI    | UT     | 100%     | Accept  | XI-HBB-208-1                                       |
| 20" Elbow to Pipe             | 2         | R1.11-3  |        |        |          |         |  |
| HBB-208-1 FW1                 | 161900    | R-A      | ISI    | UT     | 100%     | Accept  | XI-HBB-208-1                                       |
| 20" Pipe to Elbow             | 2         | R1.11-3  |        |        |          |         |  |
| HBB-208-1 FW13                | 162400    | R-A      | ISI    | UT     | 100%     | Accept  | XI-HBB-208-1                                       |
| 20" Pipe to Elbow             | 2         | R1.11-3  |        |        |          |         |  |
| HBB-208-1 FW14                | 163500    | R-A      | ISI    | UT     | 100%     | Accept  | XI-HBB-208-1                                       |
| 20" Pipe to Pipe              | 2         | R1.11-3  |        |        |          |         |  |
| HBB-208-1 FW15                | 163600    | R-A      | ISI    | UT     | 100%     | Accept  | XI-HBB-208-1                                       |
| 20" Pipe to Pipe              | 2         | R1.11-3  |        |        |          |         |  |
| DBB-201-1-1A SW5              | 295600    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DBB-201-1                                       |
| 6" Elbow to Pipe              | 2         | R1.11-5  |        |        |          |         |  |
| GBB-218-1 FW4                 | 432300    | R-A      | ISI    | UT     | 100%     | Accept  | XI-GBB-218-1                                       |
| 18"x18"x18" Tee to 18" Pipe   | 2         | R1.13-5  |        |        |          |         | Exam performed by FAC group                        |
| DBA-206-1 FW7                 | 125700    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DBA-206-1                                       |
| 10" Pipe to Valve HV-55-2F002 | 1         | R1.20-4  |        |        |          |         | BER weld   |
| DBA-206-1-3B SW3              | 127200    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DBA-206-1                                       |
| 10" Pipe to 10"x10"x10" Tee   | 1         | R1.20-4  |        |        |          |         | BER weld   |
| DBA-206-1-3B SW6              | 127800    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DBA-206-1                                       |
| 10" Pipe to Elbow             | 1         | R1.20-4  |        |        |          |         | BER weld   |
| DBA-206-1-3B SW7              | 128000    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DBA-206-1                                       |
| 10" Elbow to Pipe             | 1         | R1.20-4  |        |        |          |         | BER weld   |
| APE-2MS-LB-5 SWA              | 181200    | R-A      | ISI    | UT     | 100%     | Accept  | XI-APE-2MS-LB                                      |
| 26" Pipe to 26"x8" Sweepolet  | 1         | R1.20-4  |        |        |          |         |  |
| APE-2MS-LB-5 SWC              | 181400    | R-A      | ISI    | UT     | 100%     | Accept  | XI-APE-2MS-LB                                      |
| 8" Pipe to Flange             | 1         | R1.20-4  |        |        |          |         |  |
| DBA-207-1 FW5                 | 288000    | R-A      | ISI    | UT     | 100%     | Accept  | XI-DBA-207-1                                       |
| 4" Elbow to Pipe Bend         | 1         | R1.20-4  |        |        |          |         |  |
| VRR-2RS-2A WA43               | 647600    | R-A      | ISI    | UT     | 100%     | Accept  | XI-VRR-2RS-2A                                      |
| 28" Pipe to Pipe              | 1         | R1.20-4  |        |        |          |         |  |
| RPV-2IN N6A                   | 722915    | R-A      | ISI    | UT     | 100%     | Accept  | XI-BF-6  |
| Flange to Nozzle Head Spray   | 1         | R1.20-4  |        |        |          |         |  |
| RPV-2IN N6B                   | 722925    | R-A      | ISI    | UT     | 100%     | Accept  | XI-BF-6  |
| Flange to Nozzle Spare        | 1         | R1.20-4  |        |        |          |         |  |

## Section 1A: Limerick 2R13 ISI Component Examination Results

| Component ID                | Summary # | Category | Exam   | Actual | Code     | Exam    | Iso Number   |
|-----------------------------|-----------|----------|--------|--------|----------|---------|--|
| Description                 | Class     | Item     | Reason | Exam   | Coverage | Results | Exam Comments                                      |
| GBB-230-1-1 W1502           | 920600    | R-A      | PSI    | UT     | 90.2%    | Accept  | XI-GBB-230-1                                       |
| Valve 051-2F126B to 6" Pipe | 2         | R1.20-4  |        |        |          |         | PSI for FLEX mod                                   |
| GBB-230-1-1 W1503           | 920610    | R-A      | PSI    | UT     | 100%     | Accept  | XI-GBB-230-1                                       |
| 6" Pipe to 6"x4" Reducer    | 2         | R1.20-4  |        |        |          |         | PSI for FLEX mod                                   |
| DCA-212-E2 W11              | 692900    | R-A      | ISI    | VT     | 100%     | Accept  | XI-DCA-212-E2                                      |
| Valve 48-2027 to 2" Pipe    | 1         | R1.20-4S |        |        |          |         | VT-2 exam performed as part of GP-10 pressure test |
| DCA-212-E2 W12              | 693000    | R-A      | ISI    | VT     | 100%     | Accept  | XI-DCA-212-E2                                      |
| 2" Pipe to Elbow            | 1         | R1.20-4S |        |        |          |         | VT-2 exam performed as part of GP-10 pressure test |
| DCA-212-E2 W13              | 693100    | R-A      | ISI    | VT     | 100%     | Accept  | XI-DCA-212-E2                                      |
| 2" Elbow to Pipe            | 1         | R1.20-4S |        |        |          |         | VT-2 exam performed as part of GP-10 pressure test |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description  | Summary #<br>Class             | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments |
|--|--------------------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|-----------------------------|
| Li2/45-03b N17C<br>LPCI Coupling Shroud<br>Attachment Ring to Shroud<br>Weld (225 Az)      | 751205<br>BWRVIP-42            | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-06a N17C<br>LPCI Coupling Clamp / Bolt<br>RPV (225 Az)                              | 751210<br>BWRVIP-42            | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-06b N17C<br>LPCI Coupling Clamp / Bolt<br>Shroud (225 Az)                           | 751215<br>BWRVIP-42            | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-06c N17C<br>LPCI Coupling Clamp / Bolt<br>RPV (225 Az)                              | 751220<br>BWRVIP-42            | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-06d N17C<br>LPCI Coupling Clamp / Bolt<br>Shroud (225 Az)                           | 751225<br>BWRVIP-42            | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-08a N17C<br>LPCI Coupling Eye Bolt Nut<br>to Clamp Weld (225 Az)                    | 751230<br>BWRVIP-42            | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-08b N17C<br>LPCI Coupling Eye Bolt Nut<br>to Clamp Weld (225 Az)                    | 751235<br>BWRVIP-42            | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-08c N17C<br>LPCI Coupling Eye Bolt Nut<br>to Clamp Weld (225 Az)                    | 751240<br>BWRVIP-42            | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-08d N17C<br>LPCI Coupling Eye Bolt Nut<br>to Clamp Weld (225 Az)                    | 751245<br>BWRVIP-42            | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/45-12 N17C<br>LPCI Coupling Sleeve<br>Flange to Thermal Sleeve<br>Weld at RPV (225 Az) | 751250<br>BWRVIP-42            | N/A<br>N/A       | RE             | EVT-1          | 25                  | NRI             | 4/21/2015                | XI-BN-14                    |
| Li2/C-C-1<br>Top Guide C-Clamp 000<br>Deg Az   | 545790<br>BWRVIP-26 /<br>B-N-2 | B-N-2<br>B13.40  | RE             | VT-3           | 100                 | NRI             | 4/20/2015                | B11-D277                    |
| Li2/C-C-2<br>Top Guide C-Clamp 270<br>Deg Az   | 545800<br>BWRVIP-26 /<br>B-N-2 | B-N-2<br>B13.40  | RE             | VT-3           | 100                 | NRI             | 4/20/2015                | B11-D277                    |
| Li2/C-C-3<br>Top Guide C-Clamp 180<br>Deg Az   | 545810<br>BWRVIP-26 /<br>B-N-2 | B-N-2<br>B13.40  | RE             | VT-3           | 100                 | NRI             | 4/20/2015                | B11-D277                    |
| Li2/C-C-4<br>Top Guide C-Clamp 090<br>Deg Az   | 604030<br>BWRVIP-26 /<br>B-N-2 | B-N-2<br>B13.40  | RE             | VT-3           | 100                 | NRI             | 4/20/2015                | B11-D277                    |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description  | Summary #<br>Class   | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|--|----------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/CSB 274.5 Az<br>Core Spray "A and C"<br>Header Vertical Bracket<br>(PB7) Attachment Weld to<br>RPV | 744500<br>BWRVIP-48  | B-N-2<br>B13.30  | RE             | EVT-1          | 65                  | NRI             | 4/18/2015                | XI-BNN  |
| Li2/CSB 345 Az<br>Core Spray "A and C"<br>Header Bracket (PB8)<br>Attachment Weld to RPV               | 744100<br>BWRVIP-48  | B-N-2<br>B13.30  | RE             | EVT-1          | 65                  | NRI             | 4/20/2015                | XI-BNN  |
| Li2/FWS N4A<br>N4A Feedwater Sparger<br>Assembly and Brackets (5-<br>55 Az)                            | 744700<br>NUREG 0619 | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-09  |
| Li2/FWS N4B<br>N4B Feedwater Sparger<br>Assembly and Brackets (65-<br>115 Az)                          | 744900<br>NUREG 0619 | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-09  |
| Li2/FWS N4C<br>N4C Feedwater Sparger<br>Assembly and Brackets<br>(125-175 Az)                          | 745000<br>NUREG 0619 | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/21/2015                | XI-BN-09  |
| Li2/FWS N4D<br>N4D Feedwater Sparger<br>Assembly and Brackets<br>(185-235 Az)                          | 745200<br>NUREG 0619 | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/17/2015                | XI-BN-09  |
| Li2/FWS N4E<br>N4E Feedwater Sparger<br>Assembly and Brackets<br>(245-295 Az)                          | 745500<br>NUREG 0619 | N/A<br>N/A       | RE             | VT-3           | 75                  | NRI             | 4/20/2015                | XI-BN-09  |
| Li2/FWS N4F<br>N4F Feedwater Sparger<br>Assembly and Brackets<br>(305-355 Az)                          | 745600<br>NUREG 0619 | N/A<br>N/A       | RE             | VT-3           | 90                  | NRI             | 4/20/2015                | XI-BN-09  |
| Li2/FWSB 005 Az - PIN-NUT<br>N4A Feedwater Sparger<br>Bracket Pin and Nut                              |                      | N/A              | SP             | VT-3<br>VT-1   | 90<br>90            | NRI<br>NRI      | 4/19/2015<br>4/19/2015   |   |
| Li2/FWSB 055 Az - PIN-NUT<br>N4A Feedwater Sparger<br>Bracket Pin and Nut                              |                      | N/A              | SP             | VT-3<br>VT-1   | 80<br>80            | RI<br>RI        | 4/21/2015<br>4/21/2015   | INR Li2R13-IVVI-15-05; New<br>slight wear on pin; Evaluated as<br>acceptable per IR 2490196-02.             |
| Li2/FWSB 065 Az - PIN-NUT<br>N4B Feedwater Sparger<br>Bracket Pin and Nut                              |                      | N/A              | SP             | VT-3<br>VT-1   | 95<br>95            | RI<br>RI        | 4/22/2015<br>4/22/2015   | INR Li2R13-IVVI-15-05; No<br>change to slight wear on pin;<br>Evaluated as acceptable per IR<br>2490196-02. |
| Li2/FWSB 115 Az - PIN-NUT<br>N4B Feedwater Sparger<br>Bracket Pin and Nut                              |                      | N/A              | SP             | VT-3<br>VT-1   | 100<br>100          | RI<br>RI        | 4/20/2015<br>4/20/2015   | INR Li2R13-IVVI-15-05; No<br>change to slight wear on pin;<br>Evaluated as acceptable per IR<br>2490196-02. |



## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description                                | Summary #<br>Class | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|--|--------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/FWSB 125 Az - PIN-NUT                                  |                    | N/A              | SP             | VT-3           | 100                 | RI              | 4/20/2015                |   |
| N4C Feedwater Sparger<br>Bracket Pin and Nut               | OPEX Exam          | N/A              |                | VT-1           | 100                 | RI              | 4/20/2015                | INR Li2R13-IVVI-15-05; No<br>change to slight wear on pin;<br>Evaluated as acceptable per IR<br>2490196-02.                             |
| Li2/FWSB 175 Az - PIN-NUT                                  |                    | N/A              | SP             | VT-3           | 100                 | NRI             | 4/21/2015                |   |
| N4C Feedwater Sparger<br>Bracket Pin and Nut               | OPEX Exam          | N/A              |                | VT-1           | 100                 | NRI             | 4/21/2015                |   |
| Li2/FWSB 185 Az  | 746400             | B-N-2            | RE             | EVT-1          | 60                  | NRI             | 4/21/2015                | XI-BNN  |
| N4D Feedwater Sparger<br>Bracket Attachment Weld<br>to RPV | BWRVIP-48          | B13.30           |                |                |                     |                 |                          |   |
| Li2/FWSB 185 Az - PIN-NUT                                  |                    | N/A              | SP             | VT-3           | 80                  | RI              | 4/18/2015                |   |
| N4D Feedwater Sparger<br>Bracket Pin and Nut               | OPEX Exam          | N/A              |                | VT-1           | 80                  | RI              | 4/18/2015                | INR Li2R13-IVVI-15-05; No<br>change to slight wear on pin;<br>Evaluated as acceptable per IR<br>2490196-02.                             |
| Li2/FWSB 235 Az  | 746500             | B-N-2            | RE             | EVT-1          | 60                  | NRI             | 4/17/2015                | XI-BNN  |
| N4D Feedwater Sparger<br>Bracket Attachment Weld<br>to RPV | BWRVIP-48          | B13.30           |                |                |                     |                 |                          |   |
| Li2/FWSB 235 Az - PIN-NUT                                  |                    | N/A              | SP             | VT-3           | 75                  | RI              | 4/17/2015                |   |
| N4D Feedwater Sparger<br>Bracket Pin and Nut               | OPEX Exam          | N/A              |                | VT-1           | 75                  | RI              | 4/17/2015                | INR Li2R13-IVVI-15-05; New<br>slight wear on pin; Evaluated as<br>acceptable per IR 2490196-02.   |
| Li2/FWSB 245 Az - PIN-NUT                                  |                    | N/A              | SP             | VT-3           | 100                 | RI              | 4/18/2015                |   |
| N4E Feedwater Sparger<br>Bracket Pin and Nut               | OPEX Exam          | N/A              |                | VT-1           | 100                 | RI              | 4/18/2015                | INR Li2R13-IVVI-15-05; No<br>change to rub mark and nut<br>condition at bottom of pin;<br>Evaluated as acceptable per IR<br>2490196-02. |
| Li2/FWSB 295 Az - PIN-NUT                                  |                    | N/A              | SP             | VT-3           | 100                 | NRI             | 4/17/2015                |   |
| N4E Feedwater Sparger<br>Bracket Pin and Nut               | OPEX Exam          | N/A              |                | VT-1           | 100                 | NRI             | 4/17/2015                |   |
| Li2/FWSB 305 Az - PIN-NUT                                  |                    | N/A              | SP             | VT-3           | 100                 | RI              | 4/17/2015                |   |
| N4F Feedwater Sparger<br>Bracket Pin and Nut               | OPEX Exam          | N/A              |                | VT-1           | 100                 | RI              | 4/17/2015                | INR Li2R13-IVVI-15-05; New<br>slight wear on pin; Evaluated as<br>acceptable per IR 2490196-02.   |
| Li2/FWSB 355 Az - PIN-NUT                                  |                    | N/A              | SP             | VT-3           | 85                  | NRI             | 4/20/2015                |   |
| N4F Feedwater Sparger<br>Bracket Pin and Nut               | OPEX Exam          | N/A              |                | VT-1           | 85                  | NRI             | 4/20/2015                |   |
| Li2/GRB 000 Deg  | 749600             | B-N-2            | RE             | VT-3           | 95                  | NRI             | 4/20/2015                | XI-BNN  |
| Guide Rod Bracket<br>Attachment Weld to RPV                | BWRVIP-48          | B13.30           |                |                |                     |                 |                          |   |
| Li2/GRB 180 Deg  | 749700             | B-N-2            | RE             | VT-3           | 100                 | NRI             | 4/20/2015                | XI-BNN  |
| Guide Rod Bracket<br>Attachment Weld to RPV                | BWRVIP-48          | B13.30           |                |                |                     |                 |                          |   |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class             | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|--------------------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/H01<br>Core Shroud Plate to Dryer<br>/ Separator Support Ring<br>Weld         | 747100<br>BWRVIP-76 /<br>B-N-2 | B-N-2<br>B13.40  | RE             | UT             | 41.4                | RI              | 4/20/2015                | XI-BN-10<br><br>Indications identified and<br>evaluated as acceptable under<br>ECR LG 15-00157.                     |
| Li2/H02<br>Core Shroud Plate to top<br>Guide Support Ring                         | 747200<br>BWRVIP-76 /<br>B-N-2 | B-N-2<br>B13.40  | RE             | UT             | 58.1                | RI              | 4/21/2015                | XI-BN-10<br><br>Indications identified and<br>evaluated as acceptable under<br>ECR LG 15-00157.                     |
| Li2/H06<br>Core Shroud Core Support<br>Plate Ring to Shroud Plate<br>Weld         | 747600<br>BWRVIP-76 /<br>B-N-2 | B-N-2<br>B13.40  | RE             | UT             | 61.9                | RI              | 4/24/2015                | XI-BN-10<br><br>Indications identified and<br>evaluated as acceptable under<br>ECR LG 15-00157.                     |
| Li2/JP01 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                          | BWRVIP-41                      | N/A              | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |
| Li2/JP01 AS-1 (VS)<br>Vessel Side Adjusting<br>Screw Gap                          |                                | N/A              | RE             | VT-1           | 100                 | RI              | 4/16/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Slight<br>rolled metal; Evaluated as<br>acceptable per IR 2487797-02         |
| Li2/JP01 SJC<br>Jet Pump Slip Joint Clamp   | BWRVIP-41                      | N/A              | RE             | VT-3           | 100                 | RI              | 4/17/2015                | XI-BN-04  |
|   |                                | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-06; No<br>change in wear; Evaluated as<br>acceptable per IR 2487797-02                           |
| Li2/JP01 WD-1<br>Jet Pump Wedge Bearing<br>Surface                                | 543400<br>BWRVIP-41            | N/A<br>N/A       | RE             | VT-1           | 80                  | RI              | 4/18/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Slight<br>increase in rod wear; Evaluated<br>as acceptable per IR 2487797-02 |
| Li2/JP01-02 RS-9<br>Jet Pump Riser Pipe to<br>Riser Brace Circumferential<br>Weld | 542700<br>BWRVIP-41            | N/A<br>N/A       | SP             | EVT-1          | 30                  | RI              | 4/20/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-18; No<br>change in condition; Evaluated as<br>acceptable per IR 2488943-02      |
| Li2/JP02 Aux Wedge Repair<br>(SS)<br>Shroud Side Jet Pump Aux<br>Wedge Repair     | BWRVIP-41                      | N/A              | RE             | VT-3           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |
|   |                                | N/A              |                |                |                     |                 |                          |   |
| Li2/JP02 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair     | BWRVIP-41                      | N/A              | RE             | VT-3           | 100                 | RI              | 4/17/2015                | XI-BN-04  |
|   |                                | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-02; Aux<br>wedge wear identified; Evaluated<br>as acceptable per IR 2487797-02                   |
| Li2/JP02 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                      | 733919<br>BWRVIP-41            | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP02 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region                 | 733919<br>BWRVIP-41            | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP02 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP02 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543410<br>BWRVIP-41 | N/A              | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-04  |
| Li2/JP03 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | SP             | VT-1           | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A              | SP             | VT-3           | 100                 | RI              | 4/20/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-13; Aux<br>wedge removed due to wear;<br>Final gap measurement =<br>0.012in; Evaluated as acceptable<br>per IR 2487797-02. |
| Li2/JP03 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 734518<br>BWRVIP-41 | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 734521<br>BWRVIP-41 | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04<br><br>Supp IVVI was performed; non-<br>relevant indication was confirmed;<br>Not service induced.   |
| Li2/JP03 Beam<br>Jet Pump Hold Down Beam                                      | BWRVIP-41           | N/A              | SP             | EVT-1          | 100                 | NRI             | 4/20/2015                | XI-BN-04<br><br>Examined to supplement UT<br>disposition  |
| Li2/JP03 Plates<br>Jet Pump Restrainer<br>Bracket Pad Repair Plates           | BWRVIP-41           | N/A              | BL             | VT-3           | 100                 | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP03 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543420<br>BWRVIP-41 | N/A              | BL             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP03-04 RB-1a<br>Jet Pump Riser Brace Leaf<br>to RPV Pad Weld             | 553890<br>BWRVIP-41 | N/A              | RE             | EVT-1          | 70                  | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03-04 RB-1b<br>Jet Pump Riser Brace Leaf<br>to RPV Pad Weld             | 553990<br>BWRVIP-41 | N/A              | RE             | EVT-1          | 70                  | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03-04 RB-1c<br>Jet Pump Riser Brace Leaf<br>to RPV Pad Weld             | 554090<br>BWRVIP-41 | N/A              | RE             | EVT-1          | 70                  | NRI             | 4/21/2015                | XI-BN-04  |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP03-04 RB-1d<br>Jet Pump Riser Brace Leaf<br>to RPV Pad Weld             | 554190<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 70                  | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03-04 RB-2a<br>Jet Pump Riser Brace Leaf<br>to Yoke Weld                | 541410<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP03-04 RB-2b<br>Jet Pump Riser Brace Leaf<br>to Yoke Weld                | 541510<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03-04 RB-2c<br>Jet Pump Riser Brace Leaf<br>to Yoke Weld                | 541610<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 45                  | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP03-04 RB-2d<br>Jet Pump Riser Brace Leaf<br>to Yoke Weld                | 541710<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP04 Aux Wedge Repair<br>(SS)<br>Shroud Side Jet Pump Aux<br>Wedge Repair |                     | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP04 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair |                     | N/A<br>N/A       | RE             | VT-3           | 100                 | RI              | 4/20/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Aux<br>wedge wear identified; Evaluated<br>as acceptable per IR 2487797-02 |
| Li2/JP04 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 734519<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP04 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 734522<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP04 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 |                     | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP04 SJC<br>Jet Pump Slip Joint Clamp                                     |                     | N/A<br>N/A       | SP             | VT-3           | 100                 | RI              | 4/20/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-06; No<br>change in wear; Evaluated as<br>acceptable per IR 2487797-02         |
| Li2/JP04 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543430<br>BWRVIP-41 | N/A<br>N/A       | RE             | VT-1           | 100                 | RI              | 4/20/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Slight rod<br>wear; Evaluated as acceptable<br>per IR 2487797-02           |
| Li2/JP05 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      |                     | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-04  |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP05 AS-1 (VS)<br>Vessel Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | RE             | VT-1           | 100                 | RI              | 4/19/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Setscrew<br>gap noted = 0.011in; Evaluated<br>as acceptable per IR INR Li2R13-<br>IVVI-15-02; Slight increase in rod<br>wear; Evaluated as acceptable<br>per IR 2487797-02 |
| Li2/JP05 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541820<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP05 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541920<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP05 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP05 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP05 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543440<br>BWRVIP-41 | N/A<br>N/A       | RE             | VT-1           | 100                 | RI              | 4/16/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; No<br>change in wear; Evaluated as<br>acceptable per IR 2487797-02   |
| Li2/JP05-06 RS-3<br>Jet Pump Riser Pipe to<br>Transition Piece Weld           | 542320<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP06 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |
| Li2/JP06 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A              | SP             | VT-3           | 100                 | RI              | 4/16/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; No<br>change in wear; Evaluated as<br>acceptable per IR 2487797-02   |
| Li2/JP06 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541821<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP06 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541921<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP06 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP06 Plates<br>Jet Pump Restrainer<br>Bracket Pad Repair Plates           | BWRVIP-41           | N/A              | BL             | VT-3           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP06 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |
| Li2/JP06 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543450<br>BWRVIP-41 | N/A<br>N/A       | BL             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |
| Li2/JP07 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP07 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A<br>N/A       | RE             | VT-3           | 100                 | RI              | 4/16/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Aux<br>wedge wear identified; Evaluated<br>as acceptable per IR 2487797-02 |
| Li2/JP07 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541830<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP07 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541930<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP07 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP07 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A<br>N/A       | RE             | VT-3           | 100                 | RI              | 4/16/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-06; No<br>change in wear; Evaluated as<br>acceptable per IR 2487797-02         |
| Li2/JP07 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543460<br>BWRVIP-41 | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |
| Li2/JP07-08 RS-3<br>Jet Pump Riser Pipe to<br>Transition Piece Weld           | 542330<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 45                  | NRI             | 4/17/2015                | XI-BN-04  |
| Li2/JP08 Aux Wedge Repair<br>(SS)<br>Shroud Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |
| Li2/JP08 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/16/2015                | XI-BN-04  |
| Li2/JP08 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541831<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP08 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541931<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP08 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP08 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543470<br>BWRVIP-41 | N/A              | RE             | VT-1           | 100                 | NRI             | 4/17/2015                | XI-BN-04  |
| Li2/JP09 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-04  |
| Li2/JP09 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | RI              | 4/17/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Aux<br>wedge wear identified; Evaluated<br>as acceptable per IR 2487797-02 |
| Li2/JP09 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541840<br>BWRVIP-41 | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP09 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541940<br>BWRVIP-41 | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP09 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04<br><br>Supp IVVI was performed; non-<br>relevant indication was confirmed;<br>Not service induced.       |
| Li2/JP09 Beam<br>Jet Pump Hold Down Beam                                      | BWRVIP-41           | N/A              | SP             | EVT-1          | 100                 | NRI             | 4/20/2015                | XI-BN-04<br><br>Examined to supplement UT<br>disposition  |
| Li2/JP09 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | NRI             | 4/17/2015                | XI-BN-04  |
| Li2/JP09 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543480<br>BWRVIP-41 | N/A              | RE             | VT-1           | 100                 | NRI             | 4/17/2015                | XI-BN-04  |
| Li2/JP09-10 RB-1a<br>Jet Pump Riser Brace Leaf<br>to RPV Pad Weld             | 553920<br>BWRVIP-41 | N/A              | RE             | EVT-1          | 70                  | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP09-10 RB-1b<br>Jet Pump Riser Brace Leaf<br>to RPV Pad Weld             | 554020<br>BWRVIP-41 | N/A              | RE             | EVT-1          | 70                  | NRI             | 4/17/2015                | XI-BN-04  |
| Li2/JP09-10 RB-1c<br>Jet Pump Riser Brace Leaf<br>to RPV Pad Weld             | 554120<br>BWRVIP-41 | N/A              | RE             | EVT-1          | 70                  | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP09-10 RB-1d<br>Jet Pump Riser Brace Leaf<br>to RPV Pad Weld             | 554220<br>BWRVIP-41 | N/A              | RE             | EVT-1          | 70                  | NRI             | 4/19/2015                | XI-BN-04  |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description  | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|--|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP09-10 RB-2a<br>Jet Pump Riser Brace Leaf<br>to Yoke Weld   | 541440<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP09-10 RB-2b<br>Jet Pump Riser Brace Leaf<br>to Yoke Weld   | 541540<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP09-10 RB-2c<br>Jet Pump Riser Brace Leaf<br>to Yoke Weld   | 541640<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 45                  | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP09-10 RB-2d<br>Jet Pump Riser Brace Leaf<br>to Yoke Weld   | 541740<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 45                  | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP09-10 RS-3<br>Jet Pump Riser Pipe to<br>Transition Piece Weld  | 542340<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 40                  | NRI             | 4/18/2015                | XI-BN-04  |
| Li2/JP09-10 RS-6<br>JP Riser Pipe to Restrainer<br>Bracket Circumferential<br>Weld; RS-6 is on JP09 side<br>of riser | 542440<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 40                  | NRI             | 4/17/2015                | XI-BN-04  |
| Li2/JP09-10 RS-7<br>JP Riser Pipe to Restrainer<br>Bracket Circumferential<br>Weld; RS-7 is on JP10 side<br>of riser | 542540<br>BWRVIP-41 | N/A<br>N/A       | RE             | EVT-1          | 40                  | NRI             | 4/19/2015                | XI-BN-04  |
| Li2/JP10 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap   | N/A<br>BWRVIP-41    | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-04  |
| Li2/JP10 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair  | N/A<br>BWRVIP-41    | N/A<br>N/A       | SP             | VT-3           | 100                 | RI              | 4/18/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Aux<br>wedge wear identified; Evaluated<br>as acceptable per IR 2487797-02 |
| Li2/JP10 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region   | 541841<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP10 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region  | 541941<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP10 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region  | N/A<br>BWRVIP-41    | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/20/2015                | XI-BN-04  |
| Li2/JP10 WD-1<br>Jet Pump Wedge Bearing<br>Surface   | 543490<br>BWRVIP-41 | N/A<br>N/A       | RE             | VT-1           | 100                 | RI              | 4/19/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-02; Slight rod<br>wear; Evaluated as acceptable<br>per IR 2487797-02           |



## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description                             | Summary #<br>Class | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments  |
|---|--------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|--|
| Li2/JP11 Aux Wedge Repair (SS)                          |                    | N/A              | RE             | VT-3           | 100                 | RI              | 4/19/2015                | XI-BN-04   |
| Shroud Side Jet Pump Aux Wedge Repair                   | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-19; No change in wear; Evaluated as acceptable per IR 2487797-02          |
| Li2/JP11 Aux Wedge Repair (VS)                          |                    | N/A              | RE             | VT-3           | 100                 | RI              | 4/19/2015                | XI-BN-04   |
| Vessel Side Jet Pump Aux Wedge Repair                   | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-19; Aux wedge planned replacement completed in 2R13 due to wear.          |
| Li2/JP11 BB-1   | 541850             | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04   |
| Jet Pump Hold Down Beam Bolt Hole Region                | BWRVIP-41          | N/A              |                |                |                     |                 |                          |  |
| Li2/JP11 BB-2   | 541950             | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04   |
| Jet Pump Hold Down Beam Transition Arm Region           | BWRVIP-41          | N/A              |                |                |                     |                 |                          |  |
| Li2/JP11 BB-3   |                    | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04   |
| Jet Pump Hold Down Beam Transition Region               | BWRVIP-41          | N/A              |                |                |                     |                 |                          |  |
| Li2/JP11 IN-4   | 542900             | N/A              | RE             | EVT-1          | 50                  | NRI             | 4/23/2015                | XI-BN-04   |
| Jet Pump Inlet to Mixer Weld                            | BWRVIP-41          | N/A              |                |                |                     |                 |                          |  |
| Li2/JP11 Plates   |                    | N/A              | BL             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-04   |
| Jet Pump Restrainer Bracket Pad Repair Plates           | BWRVIP-41          | N/A              |                |                |                     |                 |                          |  |
| Li2/JP11 SJC  |                    | N/A              | SP             | VT-3           | 95                  | RI              | 4/23/2015                | XI-BN-04   |
| Jet Pump Slip Joint Clamp                               | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-06; No change in wear; Evaluated as acceptable per IR 2487797-02          |
| Li2/JP11 WD-1   | 543500             | N/A              | BL             | VT-1           | 100                 | RI              | 4/22/2015                | XI-BN-04   |
| Jet Pump Wedge Bearing Surface                          | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-19; Slight rod wear; Evaluated as acceptable per IR 2487797-02            |
| Li2/JP11-12 RS-8  | 542650             | N/A              | RE             | EVT-1          | 20                  | NRI             | 4/23/2015                | XI-BN-04   |
| Jet Pump Riser Pipe to Riser Brace Circumferential Weld | BWRVIP-41          | N/A              |                |                |                     |                 |                          |  |
| Li2/JP11-12 RS-9  | 542750             | N/A              | RE             | EVT-1          | 20                  | NRI             | 4/23/2015                | XI-BN-04   |
| Jet Pump Riser Pipe to Riser Brace Circumferential Weld | BWRVIP-41          | N/A              |                |                |                     |                 |                          |  |
| Li2/JP12 AS-1 (VS)                                      |                    | N/A              | RE             | VT-1           | 100                 | RI              | 4/22/2015                | XI-BN-04   |
| Vessel Side Adjusting Screw Gap                         | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-19; No change in setscrew wear; Evaluated as acceptable per IR 2487797-02 |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description                   | Summary #<br>Class | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|--------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP12 Aux Wedge Repair (SS)                |                    | N/A              | RE             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Shroud Side Jet Pump Aux Wedge Repair         | BWRVIP-41          | N/A              |                |                |                     |                 |                          |   |
| Li2/JP12 IN-4                                 | 542910             | N/A              | RE             | EVT-1          | 30                  | NRI             | 4/22/2015                | XI-BN-04  |
| Jet Pump Inlet to Mixer Weld                  | BWRVIP-41          | N/A              |                |                |                     |                 |                          |   |
| Li2/JP12 SJC                                  |                    | N/A              | RE             | VT-3           | 90                  | RI              | 4/23/2015                | XI-BN-04  |
| Jet Pump Slip Joint Clamp                     | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-06; No change in wear; Evaluated as acceptable per IR 2487797-02         |
| Li2/JP12 WD-1                                 | 543510             | N/A              | RE             | VT-1           | 100                 | RI              | 4/22/2015                | XI-BN-04  |
| Jet Pump Wedge Bearing Surface                | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-19; Slight rod wear; Evaluated as acceptable per IR 2487797-02           |
| Li2/JP13 AS-1 (SS)                            |                    | N/A              | RE             | VT-1           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Shroud Side Adjusting Screw Gap               | BWRVIP-41          | N/A              |                |                |                     |                 |                          |   |
| Li2/JP13 Aux Wedge Repair (VS)                |                    | N/A              | SP             | VT-3           | 100                 | RI              | 4/22/2015                | XI-BN-04  |
| Vessel Side Jet Pump Aux Wedge Repair         | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-19; Aux wedge wear identified; Evaluated as acceptable per IR 2487797-02 |
| Li2/JP13 BB-1                                 | 541860             | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Jet Pump Hold Down Beam Bolt Hole Region      | BWRVIP-41          | N/A              |                |                |                     |                 |                          |   |
| Li2/JP13 BB-2                                 | 541960             | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Jet Pump Hold Down Beam Transition Arm Region | BWRVIP-41          | N/A              |                |                |                     |                 |                          |   |
| Li2/JP13 BB-3                                 |                    | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Jet Pump Hold Down Beam Transition Region     | BWRVIP-41          | N/A              |                |                |                     |                 |                          |   |
| Li2/JP13 WD-1                                 | 543520             | N/A              | RE             | VT-1           | 100                 | RI              | 4/22/2015                | XI-BN-04  |
| Jet Pump Wedge Bearing Surface                | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-19; Slight rod wear; Evaluated as acceptable per IR 2487797-02           |
| Li2/JP14 Aux Wedge Repair (SS)                |                    | N/A              | RE             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Shroud Side Jet Pump Aux Wedge Repair         | BWRVIP-41          | N/A              |                |                |                     |                 |                          |   |
| Li2/JP14 Aux Wedge Repair (VS)                |                    | N/A              | RE             | VT-3           | 100                 | RI              | 4/22/2015                | XI-BN-04  |
| Vessel Side Jet Pump Aux Wedge Repair         | BWRVIP-41          | N/A              |                |                |                     |                 |                          | INR Li2R13-IVVI-15-17; Aux wedge wear identified; Evaluated as acceptable per IR 2487797-02 |
| Li2/JP14 BB-1                                 | 541861             | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Jet Pump Hold Down Beam Bolt Hole Region      | BWRVIP-41          | N/A              |                |                |                     |                 |                          |   |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP14 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541961<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP14 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP14 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543530<br>BWRVIP-41 | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP15 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/23/2015                | XI-BN-04  |
| Li2/JP15 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A<br>N/A       | SP             | VT-3           | 100                 | RI              | 4/21/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; No<br>change in wear; Evaluated as<br>acceptable per IR 2487797-02 |
| Li2/JP15 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541870<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP15 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541970<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP15 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP15 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP15 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543540<br>BWRVIP-41 | N/A<br>N/A       | RE             | VT-1           | 100                 | RI              | 4/21/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; Slight rod<br>wear; Evaluated as acceptable<br>per IR 2487797-02   |
| Li2/JP16 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/23/2015                | XI-BN-04  |
| Li2/JP16 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A<br>N/A       | SP             | VT-3           | 100                 | RI              | 4/21/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; No<br>change in wear; Evaluated as<br>acceptable per IR 2487797-02 |
| Li2/JP16 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541871<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP16 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541971<br>BWRVIP-41 | N/A<br>N/A       | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP16 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP16 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP16 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543550<br>BWRVIP-41 | N/A              | RE             | VT-1           | 100                 | RI              | 4/21/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; Slight rod wear; Evaluated as acceptable per IR 2487797-02                 |
| Li2/JP17 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/23/2015                | XI-BN-04  |
| Li2/JP17 AS-1 (VS)<br>Vessel Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | RE             | VT-1           | 100                 | RI              | 4/23/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; Setscrew gap = 0.005in; Evaluated as acceptable per IR 2487797-02          |
| Li2/JP17 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | RI              | 4/23/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-06; Slight new wear on center strut; Evaluated as acceptable per IR 2487797-02 |
| Li2/JP17 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543560<br>BWRVIP-41 | N/A              | RE             | VT-1           | 100                 | RI              | 4/21/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; Slight rod wear; Evaluated as acceptable per IR 2487797-02                 |
| Li2/JP18 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Li2/JP18 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A              | SP             | VT-3           | 100                 | RI              | 4/22/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; No change in wear; Evaluated as acceptable per IR 2487797-02               |
| Li2/JP18 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541881<br>BWRVIP-41 | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP18 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541981<br>BWRVIP-41 | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP18 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP18 Plates<br>Jet Pump Restrainer<br>Bracket Pad Repair Plates           | BWRVIP-41           | N/A              | BL             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/JP18 SJC<br>Jet Pump Slip Joint Clamp                                     | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Li2/JP18 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543570<br>BWRVIP-41 | N/A              | BL             | VT-1           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Li2/JP19 Aux Wedge Repair<br>(SS)<br>Shroud Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Li2/JP19 Aux Wedge Repair<br>(VS)<br>Vessel Side Jet Pump Aux<br>Wedge Repair | BWRVIP-41           | N/A              | RE             | VT-3           | 100                 | RI              | 4/22/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; Aux<br>wedge wear identified; Evaluated<br>as acceptable per IR 2487797-02 |
| Li2/JP19 BB-1<br>Jet Pump Hold Down Beam<br>Bolt Hole Region                  | 541890<br>BWRVIP-41 | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP19 BB-2<br>Jet Pump Hold Down Beam<br>Transition Arm Region             | 541990<br>BWRVIP-41 | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP19 BB-3<br>Jet Pump Hold Down Beam<br>Transition Region                 | BWRVIP-41           | N/A              | RE             | UT             | 100                 | NRI             | 4/21/2015                | XI-BN-04  |
| Li2/JP19 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543580<br>BWRVIP-41 | N/A              | RE             | VT-1           | 100                 | RI              | 4/22/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; Rod wear<br>not visible; Evaluated as<br>acceptable per IR 2487797-02      |
| Li2/JP20 AS-1 (SS)<br>Shroud Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Li2/JP20 AS-1 (VS)<br>Vessel Side Adjusting<br>Screw Gap                      | BWRVIP-41           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Li2/JP20 Plates<br>Jet Pump Restrainer<br>Bracket Pad Repair Plates           | BWRVIP-41           | N/A              | BL             | VT-3           | 100                 | NRI             | 4/22/2015                | XI-BN-04  |
| Li2/JP20 WD-1<br>Jet Pump Wedge Bearing<br>Surface                            | 543590<br>BWRVIP-41 | N/A              | RE             | VT-1           | 100                 | RI              | 4/22/2015                | XI-BN-04<br><br>INR Li2R13-IVVI-15-19; Slight<br>wedge and rod wear; Evaluated<br>as acceptable per IR 2487797-02 |
| Li2/P1A<br>Core Spray "A" Loop N5B<br>Thermal Sleeve to T-Box<br>Weld 300 Az  | 758011<br>BWRVIP-18 | N/A              | RE             | EVT-1          | 40                  | NRI             | 4/17/2015                | XI-BN-8   |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|-----------------------------|
| Li2/P1B<br>Core Spray "B" Loop N5A<br>Thermal Sleeve to T-Box<br>Weld 60 Az                           | 758021<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 40                  | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/P2A<br>Core Spray "A" Loop<br>Header T-Box Cover Plate<br>Weld 300 Az                             | 758031<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 95                  | NRI             | 4/17/2015                | XI-BN-8                     |
| Li2/P2B<br>Core Spray "B" Loop<br>Header T-Box Cover Plate<br>Weld 60 Az                              | 758041<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 100                 | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/P3aA<br>Core Spray "A" Loop<br>Header T-Box to Pipe Weld<br>Right Side 300 Az                     | 758051<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/17/2015                | XI-BN-8                     |
| Li2/P3aB<br>Core Spray "B" Loop<br>Header T-Box to Pipe Weld<br>Right Side 60 Az                      | 758071<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/P3bA<br>Core Spray "A" Loop<br>Header T-Box to Pipe Weld<br>Left Side 300 Az                      | 758061<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/17/2015                | XI-BN-8                     |
| Li2/P3bB<br>Core Spray "B" Loop<br>Header T-Box to Pipe Weld<br>Left Side 60 Az                       | 758081<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 60                  | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/P4cA<br>Core Spray "A" Loop "A"<br>Downcomer Pipe to Elbow<br>Weld 352.5 Az (Shroud<br>Elevation) | 758171<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/19/2015                | XI-BN-8                     |
| Li2/P4cB<br>Core Spray "B" Loop "B"<br>Downcomer Pipe to Elbow<br>Weld 7.5 Az (Shroud<br>Elevation)   | 758181<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 60                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/P4cC<br>Core Spray "A" Loop "C"<br>Downcomer Pipe to Elbow<br>Weld 187.5 Az (Shroud<br>Elevation) | 758191<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/17/2015                | XI-BN-8                     |
| Li2/P4cD<br>Core Spray "B" Loop "D"<br>Downcomer Pipe to Elbow<br>Weld 172.5 Az (Shroud<br>Elevation) | 758201<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/20/2015                | XI-BN-8                     |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|-----------------------------|
| Li2/P4dD<br>Core Spray "B" Loop "D"<br>Downcomer Elbow to<br>Shroud Pipe Weld 172.5 Az        | 758241<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/20/2015                | XI-BN-8                     |
| Li2/P5A<br>Core Spray "A" Loop "A"<br>Downcomer Pipe to Sliding<br>Sleeve Field Weld 352.5 Az | 758251<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 55                  | NRI             | 4/19/2015                | XI-BN-8                     |
| Li2/P5B<br>Core Spray "B" Loop "B"<br>Downcomer Pipe to Sliding<br>Sleeve Field Weld 7.5 Az   | 758261<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 55                  | NRI             | 4/20/2015                | XI-BN-8                     |
| Li2/P5C<br>Core Spray "A" Loop "C"<br>Downcomer Pipe to Sliding<br>Sleeve Field Weld 187.5 Az | 758271<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 60                  | NRI             | 4/17/2015                | XI-BN-8                     |
| Li2/P5D<br>Core Spray "B" Loop "D"<br>Downcomer Pipe to Sliding<br>Sleeve Field Weld 172.5 Az | 758281<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/P6A<br>Core Spray "A" Loop "A"<br>Sliding Sleeve to Outer<br>Sleeve Field Weld 352.5 Az   | 758291<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/19/2015                | XI-BN-8                     |
| Li2/P6B<br>Core Spray "B" Loop "B"<br>Sliding Sleeve to Outer<br>Sleeve Field Weld 7.5 Az     | 758301<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/20/2015                | XI-BN-8                     |
| Li2/P6C<br>Core Spray "A" Loop "C"<br>Sliding Sleeve to Outer<br>Sleeve Field Weld 187.5 Az   | 758311<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/P6D<br>Core Spray "B" Loop "D"<br>Sliding Sleeve to Outer<br>Sleeve Field Weld 172.5 Az   | 758321<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 60                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/P7A<br>Core Spray "A" Loop "A"<br>Outer Sleeve to Pipe Shop<br>Weld 352.5 Az              | 758331<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 60                  | NRI             | 4/19/2015                | XI-BN-8                     |
| Li2/P7B<br>Core Spray "B" Loop "B"<br>Outer Sleeve to Pipe Shop<br>Weld 7.5 Az                | 758341<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 55                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/P7C<br>Core Spray "A" Loop "C"<br>Outer Sleeve to Pipe Shop<br>Weld 187.5 Az              | 758351<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/23/2015                | XI-BN-8                     |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description  | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments |
|--|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|-----------------------------|
| Li2/P7D<br>Core Spray "B" Loop "D"<br>Outer Sleeve to Pipe Shop<br>Weld 172.5 Az     | 758361<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/P8aA<br>Core Spray "A" Loop "A"<br>Shroud Pipe to Collar Weld<br>352.5 Az        | 758371<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 60                  | NRI             | 4/19/2015                | XI-BN-8                     |
| Li2/P8aB<br>Core Spray "B" Loop "B"<br>Shroud Pipe to Collar Weld<br>7.5 Az          | 758381<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/20/2015                | XI-BN-8                     |
| Li2/P8aC<br>Core Spray "A" Loop "C"<br>Shroud Pipe to Collar Weld<br>187.5 Az        | 758391<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/P8aD<br>Core Spray "B" Loop "D"<br>Shroud Pipe to Collar Weld<br>172.5 Az        | 758401<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/20/2015                | XI-BN-8                     |
| Li2/P8bA<br>Core Spray "A" Loop "A"<br>Collar to Shroud Weld<br>352.5 Az             | 758411<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/20/2015                | XI-BN-8                     |
| Li2/P8bB<br>Core Spray "B" Loop "B"<br>Collar to Shroud Weld 7.5<br>Az               | 758421<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/P8bC<br>Core Spray "A" Loop "C"<br>Collar to Shroud Weld<br>187.5 Az             | 758431<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 70                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/P8bD<br>Core Spray "B" Loop "D"<br>Collar to Shroud Weld<br>172.5 Az             | 758441<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/PB7<br>Core Spray "A" Loop "A and<br>C" Header Pipe Vertical<br>Bracket 274.5 Az | 758551<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 60                  | NRI             | 4/17/2015                | XI-BN-8                     |
| Li2/PB8<br>Core Spray "A" Loop "A and<br>C" Header Pipe Bracket<br>345 Deg Az        | 758561<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 65                  | NRI             | 4/20/2015                | XI-BN-8                     |
| Li2/S1A<br>"A" Sparger T-Box Cover<br>Plate Weld (352.5 Az)                          | 758571<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 100                 | NRI             | 4/20/2015                | XI-BN-8                     |



## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description  | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments |
|--|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|-----------------------------|
| Li2/S1B<br>"B" Sparger T-Box Cover<br>Plate Weld (7.5 Az)  | 758581<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | .45                 | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/S2aA<br>"A" Sparger T-Box to Pipe<br>Weld (Right Side) (352.5 Az)  | 758611<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 45                  | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/S2aB<br>"B" Sparger T-Box to Pipe<br>Weld (Right Side) (7.5 Az)  | 758631<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 20                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/S2bA<br>"A" Sparger T-Box to Pipe<br>Weld (Left Side) (352.5 Az)   | 758621<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 45                  | NRI             | 4/20/2015                | XI-BN-8                     |
| Li2/S2bB<br>"B" Sparger T-Box to Pipe<br>Weld (Left Side) (7.5 Az)   | 758641<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 25                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/S3aXXA<br>"A" Sparger Pipe to Nozzle<br>Weld, Typical of 65 Nozzles<br>(XX) (273-88 Az)                  | 758691<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 45                  | NRI             | 4/23/2015                | XI-BN-8                     |
| Li2/S3bXXA<br>"A" Sparger Nozzle to<br>Orifice Weld, Typical of 65<br>Orifices (XX) (273-88 Az)              | 758731<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 45                  | NRI             | 4/23/2015                | XI-BN-8                     |
| Li2/S3dXXA<br>"A" Sparger Nozzle Stitch<br>Welds, 2 Welds 180 Deg<br>Apt, Mult Plcs Ea Noz.<br>(273 - 88 Az) | 758811<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 45                  | NRI             | 4/23/2015                | XI-BN-8                     |
| Li2/S4aA<br>"A" Sparger Pipe to End<br>Cap Weld (Right Side) (88<br>Az)                                      | 758891<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/21/2015                | XI-BN-8                     |
| Li2/S4aB<br>"B" Sparger Pipe to End<br>Cap Weld (Right Side) (88<br>Az)                                      | 758901<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 40                  | NRI             | 4/22/2015                | XI-BN-8                     |
| Li2/S4bA<br>"A" Sparger Pipe to End<br>Cap Weld (Left Side) (273<br>Az)                                      | 758931<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/18/2015                | XI-BN-8                     |
| Li2/S4bB<br>"B" Sparger Pipe to End<br>Cap Weld (Left Side) (273<br>Az)                                      | 758941<br>BWRVIP-18 | N/A<br>N/A       | RE             | EVT-1          | 50                  | NRI             | 4/18/2015                | XI-BN-8                     |
| Li2/SB01<br>"A and B" Sparger Bracket<br>and Shroud Attachment<br>Welds (7.5 Az)                             | 758971<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 90                  | NRI             | 4/21/2015                | XI-BN-8                     |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description  | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments  |
|--|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|--|
| Li2/SB02<br>"A and B" Sparger Bracket<br>and Shroud Attachment<br>Welds (44 Az)                    | 758981<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 75                  | NRI             | 4/21/2015                | XI-BN-8  |
| Li2/SB03<br>"A and B" Sparger Bracket<br>and Shroud Attachment<br>Welds (84 Az)                    | 758991<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 90                  | NRI             | 4/21/2015                | XI-BN-8  |
| Li2/SB04<br>"C and D" Sparger Bracket<br>and Shroud Attachment<br>Welds (96 Az)                    | 759001<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 80                  | NRI             | 4/21/2015                | XI-BN-8  |
| Li2/SB05<br>"C and D" Sparger Bracket<br>and Shroud Attachment<br>Welds (136 Az)                   | 759011<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 85                  | RI              | 4/22/2015                | XI-BN-8<br><br>INR Li2R13-IVVI-15-20; No<br>change in previous rub marks;<br>Evaluated as acceptable per IR<br>2490709-02.   |
| Li2/SB06<br>"C and D" Sparger Bracket<br>and Shroud Attachment<br>Welds (172.5 Az)                 | 759021<br>BWRVIP-18 | N/A<br>N/A       | RE             | VT-1           | 90                  | NRI             | 4/21/2015                | XI-BN-8  |
| Li2/SD<br>Steam Dryer Assembly<br>Welds, Surfaces & Lugs   | 726200<br>N/A       | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/19/2015                | XI-BN-01   |
| Li2/SDBH5a<br>Steam Dryer Bottom<br>Horizontal weld on edge of<br>Hood No. 5 (0 deg side)          | N/A<br>BWRVIP-139   | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-01   |
| Li2/SDBH5b<br>Steam Dryer Bottom<br>Horizontal weld on edge of<br>Hood No. 5 (180 deg side)        | N/A<br>BWRVIP-139   | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-01   |
| Li2/SDDC3a<br>Steam Dryer Drain Channel<br>No. 3 Vertical Weld to Skirt<br>(184 Az)                | N/A<br>BWRVIP-139   | N/A<br>N/A       | SP             | VT-1           | 100                 | RI              | 4/18/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-07; No<br>change in previous indications;<br>Evaluated as acceptable per<br>IR2486548-02. |
| Li2/SDDC4a<br>Steam Dryer Drain Channel<br>No. 4 Vertical Weld to Skirt<br>(311 Az)                | N/A<br>BWRVIP-139   | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-01   |
| Li2/SDDC4b<br>Steam Dryer Drain Channel<br>No. 4 Vertical Weld to Skirt<br>(356 Az)                | N/A<br>BWRVIP-139   | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-01   |
| Li2/SDDC4c<br>Steam Dryer Drain Channel<br>No. 4 Horizontal Weld to<br>Support Ring (311 - 356 Az) | N/A<br>BWRVIP-139   | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-01   |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments  |
|---|--------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|--|
| Li2/SDEB1d<br>Steam Dryer End Bank<br>vertical weld on perforated<br>side of Hood No. 1 (180<br>deg side) | BWRVIP-139         | N/A              | SP             | VT-1           | 100                 | RI              | 4/18/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-08; No<br>change in previous indication;<br>Evaluated as acceptable per<br>IR 2486548-02. |
| Li2/SDEB2a<br>Steam Dryer End Bank<br>vertical weld on curved side<br>of Hood No. 2 (0 deg side)          | BWRVIP-139         | N/A              | SP             | VT-1           | 100                 | RI              | 4/19/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-11; No<br>change in previous indication;<br>Evaluated as acceptable per<br>IR 2486548-02. |
| Li2/SDEB4b<br>Steam Dryer End Bank<br>vertical weld on perforated<br>side of Hood No. 4 (0 deg<br>side)   | BWRVIP-139         | N/A              | SP             | VT-1           | 100                 | RI              | 4/16/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-01; No<br>change in previous indication;<br>Evaluated as acceptable per<br>IR 2486548-02. |
| Li2/SDEB5a<br>Steam Dryer End Bank<br>vertical weld on curved side<br>of Hood No. 5 (0 deg side)          | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-01   |
| Li2/SDEB5b<br>Steam Dryer End Bank<br>vertical weld on perforated<br>side of Hood No. 5 (0 deg<br>side)   | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/16/2015                | XI-BN-01   |
| Li2/SDEB5c<br>Steam Dryer End Bank<br>vertical weld on curved side<br>of Hood No. 5 (180 deg<br>side)     | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-01   |
| Li2/SDEB5d<br>Steam Dryer End Bank<br>vertical weld on perforated<br>side of Hood No. 5 (180<br>deg side) | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-01   |
| Li2/SDHS3c<br>Steam Dryer Hood Seam<br>Weld 3c  | BWRVIP-139         | N/A              | SP             | VT-1           | 100                 | RI              | 4/18/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-12; No<br>change in previous indication;<br>Evaluated as acceptable per<br>IR 2486548-02. |
| Li2/SDHS4c<br>Steam Dryer Hood Seam<br>Weld 4c  | BWRVIP-139         | N/A              | SP             | VT-1           | 100                 | RI              | 4/18/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-10; No<br>change in previous indication;<br>Evaluated as acceptable per<br>IR 2486548-02. |
| Li2/SDHS6a<br>Steam Dryer Hood Seam<br>Weld 6a  | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01   |
| Li2/SDHS6b<br>Steam Dryer Hood Seam<br>Weld 6b  | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-01   |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments |
|---|--------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|-----------------------------|
| Li2/SDHS6c<br>Steam Dryer Hood Seam<br>Weld 6c                              | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-01                    |
| Li2/SDHS6d<br>Steam Dryer Hood Seam<br>Weld 6d                              | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/18/2015                | XI-BN-01                    |
| Li2/SDLR 041.5 Az<br>Steam Dryer Lifting Rod<br>41.5 Degree Azimuth         | N/A                | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01                    |
| Li2/SDLR 138.5 Az<br>Steam Dryer Lifting Rod<br>138.5 Degree Azimuth        | N/A                | N/A              | RE             | VT-1           | 85                  | NRI             | 4/17/2015                | XI-BN-01                    |
| Li2/SDLR 221.5 Az<br>Steam Dryer Lifting Rod<br>221.5 Degree Azimuth        | N/A                | N/A              | RE             | VT-1           | 85                  | NRI             | 4/17/2015                | XI-BN-01                    |
| Li2/SDLR 318.5 Az<br>Steam Dryer Lifting Rod<br>318.5 Degree Azimuth        | N/A                | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01                    |
| Li2/SDLRC1a<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds | BWRVIP-139         | N/A              | RE             | VT-1           | 50                  | NRI             | 4/17/2015                | XI-BN-01                    |
| Li2/SDLRC1b<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/17/2015                | XI-BN-01                    |
| Li2/SDLRC1c<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/17/2015                | XI-BN-01                    |
| Li2/SDLRC2a<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds | BWRVIP-139         | N/A              | RE             | VT-1           | 75                  | NRI             | 4/17/2015                | XI-BN-01                    |
| Li2/SDLRC2b<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01                    |
| Li2/SDLRC3a<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01                    |
| Li2/SDLRC3b<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds | BWRVIP-139         | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01                    |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class   | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments  |
|---|----------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|--|
| Li2/SDLRC4a<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds   | BWRVIP-139           | N/A              | RE             | VT-1           | 90                  | NRI             | 4/19/2015                | XI-BN-01   |
| Li2/SDLRC4b<br>Steam Dryer Lifting Rod C<br>(221.5 deg) attachment<br>welds   | BWRVIP-139           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01   |
| Li2/SDLRCCP<br>Steam Dryer Lifting Rod C<br>(221.5 deg) to cover plate<br>weld  | BWRVIP-139           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01   |
| Li2/SDLRCLE<br>Steam Dryer Lifting Rod C<br>(221.5 deg) lifting eye welds   | BWRVIP-139           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01   |
| Li2/SDLRCTW<br>Steam Dryer Lifting Rod C<br>(221.5 deg) tack welds  | BWRVIP-139           | N/A              | SP             | VT-1           | 100                 | RI              | 4/19/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-14; No<br>change in previous indication;<br>Evaluated as acceptable per<br>IR 2486548-02.                               |
| Li2/SDSR<br>Steam Dryer Support Ring  | 726250<br>BWRVIP-139 | N/A<br>N/A       | RE             | VT-1           | 100                 | RI              | 4/19/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-03; Three<br>new small indications; No change<br>in previous indications; Evaluated<br>as acceptable per IR 2490908-02. |
| Li2/SDTB03<br>Steam Dryer Tie Bar No.<br>03 - Hood No. 1 to No. 2   | BWRVIP-139           | N/A              | SP             | VT-1           | 100                 | RI              | 4/18/2015                | XI-BN-01<br><br>INR Li2R13-IVVI-15-09; No<br>change in previous indication;<br>Evaluated as acceptable per<br>IR 2486548-02.                               |
| Li2/SDTH6<br>Steam Dryer Top Horizontal<br>weld on Hood No. 6   | BWRVIP-139           | N/A              | RE             | VT-1           | 100                 | NRI             | 4/19/2015                | XI-BN-01   |
| Li2/SH/SS<br>Shroud Head/ Steam<br>Separator Assembly,<br>Shroud Head Bolts, Lugs,<br>Brackets, Welds and<br>Surfaces | 727300<br>N/A        | N/A<br>N/A       | RE             | VT-3           | 100                 | RI              | 4/20/2015                | XI-BN-02<br><br>INR Li2R13-IVVI-15-15(16); No<br>change to previous indications;<br>Evaluated as acceptable per IR<br>2490704-02.                          |
| Li2/SSB 120 Deg Lower<br>Surveillance Specimen<br>Bracket Attachment Weld<br>to RPV                                   | 750300<br>BWRVIP-48  | B-N-2<br>B13.20  | RE             | VT-1           | 60                  | NRI             | 4/17/2015                | XI-BNN   |
| Li2/SSB 120 Deg Upper<br>Surveillance Specimen<br>Bracket Attachment Weld<br>to RPV                                   | 750400<br>BWRVIP-48  | B-N-2<br>B13.20  | RE             | VT-3           | 90                  | NRI             | 4/17/2015                | XI-BNN   |

## Section 1B: Limerick 2R13 IVVI Component Examination Results

| Component ID<br>Description   | Summary #<br>Class  | Category<br>Item | Exam<br>Reason | Actual<br>Exam | Percent<br>Coverage | Exam<br>Results | Insp. Date<br>Code Cases | Iso Number<br>Exam Comments   |
|---|---------------------|------------------|----------------|----------------|---------------------|-----------------|--------------------------|---|
| Li2/SSB 300 Deg Lower<br>Surveillance Specimen<br>Bracket Attachment Weld<br>to RPV | 750500<br>BWRVIP-48 | B-N-2<br>B13.20  | RE             | VT-1           | 100                 | NRI             | 4/23/2015                | XI-BNN  |
| Li2/SSB 300 Deg Upper<br>Surveillance Specimen<br>Bracket Attachment Weld<br>to RPV | 750600<br>BWRVIP-48 | B-N-2<br>B13.20  | RE             | VT-3           | 100                 | NRI             | 4/20/2015                | XI-BNN  |
| Li2/SSH 030 Deg<br>Surveillance Specimen<br>Holder                                  | 749800<br>N/A       | N/A<br>N/A       | RE             | VT-3           | 100                 | RI              | 4/20/2015                | XI-BN-12<br>CNR Li2R13-IVVI-15-01; Holder<br>found not fully engaged over<br>bottom bracket; Reinstalled SAT. |
| Li2/SSH 120 Deg<br>Surveillance Specimen<br>Holder                                  | 749900<br>N/A       | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/17/2015                | XI-BN-12  |
| Li2/SSH 300 Deg<br>Surveillance Specimen<br>Holder                                  | 750000<br>N/A       | N/A<br>N/A       | RE             | VT-3           | 100                 | NRI             | 4/23/2015                | XI-BN-12  |
| Li2/SSLR 059.5 Az<br>Steam Separator Lifting<br>Rod 59.5 Degree Azimuth             | N/A                 | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-02  |
| Li2/SSLR 142.5 Az<br>Steam Separator Lifting<br>Rod 142.5 Degree Azimuth            | N/A                 | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-02  |
| Li2/SSLR 239.5 Az<br>Steam Separator Lifting<br>Rod 239.5 Degree Azimuth            | N/A                 | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-02  |
| Li2/SSLR 322.5 Az<br>Steam Separator Lifting<br>Rod 322.5 Degree Azimuth            | N/A                 | N/A<br>N/A       | RE             | VT-1           | 100                 | NRI             | 4/21/2015                | XI-BN-02  |

# Section 1C: Limerick 2R13 Pressure Testing Examination Results

Interval: 3  
Period: 3  
Outage: 2R13

| Component ID   | Iso Number            | Sect. XI                     | Inspection | Actual | Code     | Results | Summary | Procedure(s)                                      |
|--|-----------------------|------------------------------|------------|--------|----------|---------|---------|---|
| Description  | Insp. Date            | Cat.                         | Reason(s)  | Exam   | Coverage |         | Number  | Inspection Comments                               |
|  |                       | Item                         |            |        |          |         |         | Cal Block   |
| ST-4-041-952-2<br>RPV Head Flange Seal<br>Leak Detection System  | ST-INDEX<br>4/21/2015 | B-P<br>B15.10                | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-041-950-2<br>ISI System Leakage<br>Test for all Class 1<br>Systems and some<br>Class 2 Systems  | ST-INDEX<br>5/2/2015  | B-P, C-H<br>B15.10,<br>C7.10 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-001-950-2<br>ISI Inservice Pressure<br>Test of the Main Steam<br>System   | ST-INDEX<br>4/12/2015 | C-H<br>C7.10                 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-030-950-2<br>PASS and Containment<br>Atmospheric Control<br>Sample Loops<br>Functional Pressure<br>Test and Contaminated<br>Piping Inspection | ST-INDEX<br>5/1/2015  | C-H<br>C7.10                 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-051-955-2<br>ISI Inservice Pressure<br>Test of RHR Shutdown<br>Cooling  | ST-INDEX<br>4/28/2015 | C-H<br>C7.10                 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-052-951-2<br>ISI Functional Pressure<br>Test Class II Core Spray<br>A and C Loops   | ST-INDEX<br>8/19/2014 | C-H<br>C7.10                 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-052-952-2<br>ISI Functional Pressure<br>Test Class II Core Spray<br>B and D Loops   | ST-INDEX<br>7/31/2014 | C-H<br>C7.10                 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-061-950-2<br>ISI Inservice Pressure<br>Test of Liquid Radwaste<br>Collection System   | ST-INDEX<br>4/28/2015 | C-H<br>C7.10                 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-087-950-2<br>ISI Inservice Pressure<br>Test of Class 2 Drywell<br>Chilled Water System<br>Components  | ST-INDEX<br>6/20/2014 | C-H<br>C7.10                 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-LLR-222-2<br>Drywell Purge Supply<br>LLRT, Penetration X-25   | ST-INDEX<br>4/27/2015 | C-H<br>C7.10                 | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12 |
| ST-4-LLR-231-2<br>Drywell Purge Exhaust<br>LLRT, Penetration X-26  | ST-INDEX<br>4/29/2015 | C-H<br>C7.10                 | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12 |
| ST-4-LLR-232-2<br>Drywell Purge Exhaust<br>LLRT, Penetration X-26  | ST-INDEX<br>4/27/2015 | C-H<br>C7.10                 | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12 |
| ST-4-LLR-262-2<br>Drywell H2/O2 Sample<br>LLRT, Penetration X-28A  | ST-INDEX<br>4/22/2015 | C-H<br>C7.10                 | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12 |
| ST-4-LLR-271-2<br>Drywell H2/O2 Sample<br>LLRT, Penetration X-28B  | ST-INDEX<br>4/19/2015 | C-H<br>C7.10                 | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12 |

# Section 1C: Limerick 2R13 Pressure Testing Examination Results

Interval: 3  
Period: 3  
Outage: 2R13

| Component ID   | Iso Number            | Sect. XI                    | Inspection | Actual | Code     | Results | Summary | Procedure(s)   |
|--|-----------------------|-----------------------------|------------|--------|----------|---------|---------|--|
| Description  | Insp. Date            | Cat.                        | Reason(s)  | Exam   | Coverage |         | Number  | Inspection Comments                                  |
|  |                       | Item                        |            |        |          |         |         | Cal Block  |
| ST-4-LLR-541-2<br>H2/O2 Sample Return<br>LLRT, Penetration X-<br>62/X-220A   | ST-INDEX<br>4/19/2015 | C-H<br>C7.10                | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12    |
| ST-4-LLR-571-2<br>Suppression Pool Purge<br>Supply LLRT,<br>Penetration X-201A   | ST-INDEX<br>4/27/2015 | C-H<br>C7.10                | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12    |
| ST-4-LLR-572-2<br>Suppression Pool Purge<br>Supply LLRT,<br>Penetration X-201A/X-25  | ST-INDEX<br>4/26/2015 | C-H<br>C7.10                | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12    |
| ST-4-LLR-581-2<br>Suppression Pool Purge<br>Exhaust, Penetration X-<br>202   | ST-INDEX<br>4/27/2015 | C-H<br>C7.10                | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12    |
| ST-4-LLR-582-2<br>Suppression Pool Purge<br>Exhaust LLRT,<br>Penetration X-202   | ST-INDEX<br>4/29/2015 | C-H<br>C7.10                | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12    |
| ST-4-LLR-831-2<br>Wetwell H2/O2 Sample<br>LLRT, Penetration X-<br>221A   | ST-INDEX<br>4/29/2015 | C-H<br>C7.10                | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12    |
| ST-4-LLR-841-2<br>Wetwell H2/O2 Sample<br>LLRT, Penetration X-<br>221B   | ST-INDEX<br>4/21/2015 | C-H<br>C7.10                | XI         | LLRT   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-12    |
| ST-4-042-951-2<br>ISI Inservice Pressure<br>Test of Class 2 and 3<br>Instrument Tubing and<br>Suppression Pool<br>Cleanup Piping | ST-INDEX<br>5/2/2015  | C-H, D-B<br>C7.10,<br>D2.10 | XI         | VT-2   | 50       | NRI     |         | Valid Partial; Pressure test credited for<br>I-3 P-3 |
| ST-4-042-951-2<br>ISI Inservice Pressure<br>Test of Class 2 and 3<br>Instrument Tubing and<br>Suppression Pool<br>Cleanup Piping | ST-INDEX<br>4/12/2015 | C-H, D-B<br>C7.10,<br>D2.10 | XI         | VT-2   | 50       | NRI     |         | Valid Partial; Pressure test credited for<br>I-3 P-3 |
| ST-4-047-951-2<br>ISI Functional Pressure<br>Test of SCRAM<br>Discharge Volume<br>Components                                     | ST-INDEX<br>5/2/2015  | C-H, D-B<br>C7.10,<br>D2.10 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                   |
| ST-4-057-951-2<br>A Post LOCA<br>Recombiner Pneumatic<br>Pressure Test and<br>Contaminated Piping<br>Inspection                  | ST-INDEX<br>5/2/2015  | C-H, D-B<br>C7.10,<br>D2.10 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-11    |
| ST-4-057-952-2<br>B Post LOCA<br>Recombiner Pneumatic<br>Pressure Test and<br>Contaminated Piping<br>Inspection                  | ST-INDEX<br>5/2/2015  | C-H, D-B<br>C7.10,<br>D2.10 | XI         | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3 - RR<br>I3R-11    |



# Section 1C: Limerick 2R13 Pressure Testing Examination Results

Interval: 3

Period: 3

Outage: 2R13

| Component ID  | Iso Number             | Sect. XI | Inspection            | Actual | Code     | Results | Summary | Procedure(s)                                      |
|---|------------------------|----------|-----------------------|--------|----------|---------|---------|---|
| Description   | Insp. Date             | Cat.     | Reason(s)             | Exam   | Coverage |         | Number  | Inspection Comments                               |
|   |                        | Item     |                       |        |          |         |         | Cal Block   |
| ST-4-059-955-2<br>Service Air & PCIG<br>Drywell Piping Inservice<br>Test  | ST-INDEX<br>5/1/2015   | C-H, D-B | XI<br>C7.10,<br>D2.10 | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-012-950-2<br>ISI Functional Pressure<br>Test of 2A Residual<br>Heat Removal Service<br>Water HX                        | ST-INDEX<br>12/31/2014 | D-B      | XI<br>D2.10           | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-041-951-2<br>ISI Pressure Test of<br>Class 3 MSIV<br>Accumulators and Pipe   | ST-INDEX<br>5/1/2015   | D-B      | XI<br>D2.10           | VT-2   | 33       | NRI     |         | Valid Partial; Pressure test credited for I-3 P-3 |
| ST-4-041-951-2<br>ISI Pressure Test of<br>Class 3 MSIV<br>Accumulators and Pipe   | ST-INDEX<br>4/28/2015  | D-B      | XI<br>D2.10           | VT-2   | 33       | NRI     |         | Valid Partial; Pressure test credited for I-3 P-3 |
| ST-4-041-951-2<br>ISI Pressure Test of<br>Class 3 MSIV<br>Accumulators and Pipe   | ST-INDEX<br>5/2/2015   | D-B      | XI<br>D2.10           | VT-2   | 34       | NRI     |         | Valid Partial; Pressure test credited for I-3 P-3 |
| ST-4-059-953-2<br>PCIG Loop "A" Pressure<br>Decay Test  | ST-INDEX<br>4/30/2015  | D-B      | XI<br>D2.10           | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-059-954-2<br>PCIG Loop "B" Pressure<br>Decay Test  | ST-INDEX<br>4/30/2015  | D-B      | XI<br>D2.10           | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-3                |
| ST-4-092-961-2<br>ISI Pressure Test of the<br>D21 Diesel (2AG501)<br>Fuel and Diesel Oil<br>Storage and Transfer<br>Systems | ST-INDEX<br>12/20/2012 | D-B      | XI<br>D2.10           | VT-2   | 100      | NRI     |         | Pressure test credited for I-3 P-2                |

## **Section 2: Summary of Conditions Observed**

As a result of the examinations performed during the Limerick Generating Station Unit 2, Refuel Outage 13, there were no new indications requiring flaw evaluations that are reportable to the NRC per ASME Section XI requirements. Numerous other conditions were recorded and subsequent examinations and/or evaluations determined all conditions to be either non-relevant or geometric in nature.

The following is a summary of the significant indications identified during the inspections.

| <b>Flaws Accepted For Continued Operation (Code Case N-513-2)</b> |                              |   |
|---|------------------------------|---|
| <b>Component</b>  | <b>Reference (AR #)</b>      | <b>Description and Resolution</b>   |
| HBC-245-02  | 1503801                      | Pin hole leak on ESW piping in the U2 HPCI room. Leaking pipe was removed and replaced under WO C0248101.   |
| HBC-507-01  | 1691672                      | Pin hole leak on RHRSW piping in U2 pipe tunnel. Leaking pipe was removed and replaced under WO C0248357.   |
| HBC-507-01  | 1696403                      | Augmented inspection location NDE discovered wall thickness below ASME Code minimum. Pipe was removed and replaced under WO C0248357.   |
| HBC-507-01  | 1699909                      | Augmented inspection location NDE discovered wall thickness below ASME Code minimum. Pipe was removed and replaced under WO C0248357.   |
| HBC-507-01  | 2059917                      | Augmented inspection location NDE discovered wall thickness below ASME Code minimum. Pipe was removed and replaced under WO C0248357.   |
| HBC-507-01  | 2382830                      | Augmented inspection location LOC 4-1 NDE discovered wall thickness below ASME Code minimum. Pipe was removed and replaced under WO C0248357.   |
| HBC-507-01  | 2384560                      | Augmented inspection location LOC 4-4 NDE discovered wall thickness below ASME Code minimum. Pipe was removed and replaced under WO C0248357.   |
| HBC-507-01  | 2385027                      | Augmented inspection location LOC 4-5 NDE discovered wall thickness below ASME Code minimum. Pipe was removed and replaced under WO C0248357.   |
| HBC-507-01  | 2410120                      | Augmented inspection location LOC 3-1 NDE discovered wall thickness below ASME Code minimum. Pipe was removed and replaced under WO C0248357.   |
| <b>Identified Conditions</b>                                      |                              |   |
| <b>Component</b>  | <b>Reference (CNF#, AR#)</b> | <b>Description and Resolution</b>   |
| GBB-212-H041  | CNF 001, 2485615             | VT-3 examination of pipe support GBB-212-H041 identified improper clearances per the drawing. The as found condition was evaluated and determined acceptable per the pipe hanger specification. |
| HBC-243-H018  | CNF 002, 2485369             | VT-3 examination of pipe support HBC-243-H018 identified improper clearances per the drawing. The as found condition was evaluated and determined acceptable per the pipe hanger specification. |
| HBC-243-H019  | CNF 003, 2485386             | VT-3 examination of pipe support HBC-243-H019 identified improper clearances per the drawing. The as found condition was evaluated and determined acceptable per the pipe hanger specification. |
| HBC-252-H021  | CNF 004, 2485393             | VT-3 examination of pipe support HBC-252-H021 identified improper clearances per the drawing. The as found condition was evaluated and determined acceptable per the pipe hanger specification. |

|  |                                  |   |
|--|----------------------------------|---|
| DLA-207-H003                               | CNF 005,<br>2486559              | VT-3 examination of pipe support DLA-207-H003 identified that the installed hanger condition did not match the design drawings. The as found condition was evaluated by design engineering and determined compliant with the design drawing and acceptable in the as found condition. |
| DLA-207-H004                               | CNF 006,<br>2486561              | VT-3 examination of pipe support DLA-207-H004 identified that the installed hanger condition was misaligned per the design drawings. The as found condition was evaluated by design engineering and it was determined acceptable in the as found condition.                           |
| DLA-208-H003                               | CNF 007,<br>2486563              | VT-3 examination of pipe support DLA-208-H003 identified that the installed hanger condition was misaligned per the design drawings. The as found condition was evaluated by design engineering and it was determined acceptable in the as found condition.                           |
| DCA-212-E02-H007                           | CNF 008,<br>2487080              | VT-3 examination of pipe support DCA-212-E02-H007 identified improper clearances per the drawing. The as found condition was evaluated and determined acceptable per the pipe hanger specification.   |
| DCA-212-E02-H009                           | CNF 009,<br>2487081              | VT-3 examination of pipe support DCA-212-E02-H009 identified improper clearances per the drawing. The as found condition was evaluated by design engineering and it was determined acceptable in the as found condition.  |
| N6A Bolting                                | CNF 014,<br>2488812              | During visual examination of the N6A nozzle flange bolting two studs were identified with thread damage. The two damaged studs were replaced per WO R1265847.   |
| N6B Bolting                                | CNF 015,<br>2488818              | During visual examination of the N6B nozzle flange bolting one stud was identified with thread damage. The damaged stud was replaced per WO R1265847.   |
| <b>In-Vessel Visual Inspections (IVVI)</b> |                                  |   |
| <b>Component</b>                           | <b>Reference<br/>(INR#, AR#)</b> | <b>Description and Resolution</b>   |
| Steam Dryer                                | INR 15-01,<br>2486548            | No apparent change was identified in 2R13 for a previous indication on weld SDEB4b. An engineering evaluation accepted this flaw as-is under IR2486548-02.  |
| Steam Dryer                                | INR 15-07,<br>2487788            | No apparent change was identified in 2R13 for a previous indication on weld SDDC3a. An engineering evaluation accepted this flaw as-is under IR2486548-02.  |
| Steam Dryer                                | INR 15-08,<br>2487672            | No apparent change was identified in 2R13 for a previous indication on weld SDEB1d. An engineering evaluation accepted this flaw as-is under IR2486548-02.  |
| Steam Dryer                                | INR 15-09,<br>2487677            | No apparent change was identified in 2R13 for a previous indication on tie bar SDTB03. An engineering evaluation accepted this indication as-is under IR2486548-02.   |
| Steam Dryer                                | INR 15-10,<br>2487682            | No apparent change was identified in 2R13 for a previous indication on weld SDHS4c. An engineering evaluation accepted this flaw as-is under IR2486548-02.  |
| Steam Dryer                                | INR 15-11,<br>2487687            | No apparent change was identified in 2R13 for a previous indication on weld SDEB2a. An engineering evaluation accepted this flaw as-is under IR2486548-02.  |
| Steam Dryer                                | INR 15-12,<br>2487694            | No apparent change was identified in 2R13 for a previous indication on weld SDHS3c. An engineering evaluation accepted this flaw as-is under IR2486548-02.  |
| Steam Dryer                                | INR 15-14,<br>2487791            | No apparent change was identified in 2R13 for a previous indication on tack weld SDLRCTW. An engineering evaluation accepted this flaw as-is under IR2486548-02.  |
| Jet Pumps                                  | INR 15-02,<br>2490115            | Multiple indications identified in 2R13 on wedge rods, auxiliary wedges, and setscrew gaps on jet pumps 1 through 10. An engineering evaluation accepted all conditions as-is under IR2487797-02.   |

|                               |                       |  |
|-------------------------------|-----------------------|--|
| Jet Pumps                     | INR 15-04,<br>2487797 | The auxiliary wedge on JP07 vessel side was found with wear into the fingers and slightly over-travelled. An engineering evaluation accepted this condition as-is under IR2487797-02.  |
| Jet Pump                      | INR 15-19,<br>2490716 | Multiple indications identified in 2R13 on wedge rods, auxiliary wedges, and setscrew gaps on jet pumps 11 through 20. An engineering evaluation accepted all conditions as-is under IR2487797-02.   |
| Jet Pumps                     | INR 15-06,<br>2490708 | Six slip joint clamps associated with JP01, JP04, JP07, JP11, JP12, and JP17 were identified with minor wear in 2R13. An engineering evaluation accepted all conditions as-is under IR2487797-02.  |
| Jet Pumps                     | INR 15-13,<br>2487618 | The auxiliary wedge on JP03 vessel side was found in an over-travel condition with wear into the fingers. It was removed during 2R13 and a new aux wedge was not required to be installed since the as-left gap was acceptable as-is under IR2487797-02 (0.012" vs. 0.015" acceptance criteria). |
| Jet Pumps                     | INR 15-17,<br>2491638 | The auxiliary wedge on JP14 vessel side was found with wear into the fingers and slightly over-travelled. An engineering evaluation accepted this condition as-is under IR2487797-02.  |
| Steam Separator               | INR 15-15,<br>2490704 | No apparent change was identified in 2R13 for previous indications on the steam separator tie bars and alignment rods. An engineering evaluation accepted these conditions as-is per IR2490704-02.   |
| Shroud Head Bolt<br>02        | INR 15-16,<br>2490126 | No apparent change was identified in 2R13 for a previous indication on Shroud Head Bolt #2. An engineering evaluation accepted this condition as-is per IR2490704-02.  |
| Feedwater<br>Sparger Brackets | INR 15-05,<br>2490196 | No apparent change was identified in 2R13 for previous indications on the feedwater sparger bracket end pins and three new minor indications of wear were identified. An engineering evaluation accepted these conditions as-is per IR2490196-02.  |
| Jet Pump<br>Riser Brace       | INR 15-18,<br>2488943 | No apparent change was identified in 2R13 for a previous flaw on Jet Pump 01-02 Riser Brace RS-9 weld. An engineering evaluation accepted this flaw as-is per IR2488943-02.  |
| Steam Dryer                   | INR 15-03,<br>2490908 | No apparent change was identified in 2R13 for previous indications on the steam dryer support ring and three new small indications were identified. An engineering evaluation accepted these flaws as-is per IR2490908-02.   |
| Core Spray<br>Sparger Bracket | INR 15-20,<br>2490709 | No apparent change was identified in 2R13 for a previous indication on core spray sparger bracket SB-05. An engineering evaluation accepted this condition as-is under IR2490709-02.   |
| Surveillance<br>Sample Holder | CNR 15-01,<br>2488419 | The surveillance sample holder at 30 deg azimuth was found to be not engaged over the lower attachment bracket. This holder was re-attached during 2R13 and left in a SAT condition.   |

#### Snubbers:

Functional testing of snubbers was performed during 2R13 in accordance with Limerick Unit 2 Technical Specifications 4.7.4.e and Surveillance Test ST-1-103-300-2 (per Relief Request I3R-05). The initial sample selection included the following:

- 37 mechanical snubbers as part of the 37 test plan
- 17 Lisega Hydraulic snubbers as part of the 13.3% test plan
- 2 compensating struts as part of the 13.3% test plan

#### Shroud Evaluation:

While performing scheduled ultrasonic examination (UT) of the core shroud in 2R13, flaw indications were detected in horizontal welds H1, H2, and H6. An engineering analysis was performed to support startup and continued operation for at least one cycle up to 2R14, at which time an additional analysis or re-inspection is required to further justify operation beyond 2R14. This engineering analysis performed for 2R13 considered one additional cycle of crack growth and utilized the latest USNRC approved industry guidelines to ensure the structural integrity of the core shroud is maintained.

The specific inspection results and analyzed safety factor for each horizontal weld scanned in 2R13 is identified in the table below. The engineering evaluation can be found in EDMS under document ID B11-D001-S-027 which was accepted and processed by ECR LG 15-00157.

Table: Shroud inspection results

| Weld | Side  | % coverage | % flawed | One Cycle Safety Factor | Acceptance Criteria | Next inspection or re-evaluation |
|------|-------|------------|----------|-------------------------|---------------------|----------------------------------|
| H1   | Upper | 47.4%      | 0.0%     | 1.80                    | 1.39                | 2R14                             |
|      | Lower | 61.1%      | 45.8%    |                         |                     |                                  |
| H2   | Upper | 61.1%      | 29.4%    | 10.75                   | 1.39                | 2R14                             |
|      | Lower | 63.0%      | 0.0%     |                         |                     |                                  |
| H6   | Upper | 64.2%      | 0.0%     | 3.79                    | 1.39                | 2R14                             |
|      | Lower | 64.0%      | 58.8%    |                         |                     |                                  |

## LIMERICK SUPPRESSION POOL EVALUATION:

**DOCUMENT NO.:** IR# 2486892-02

**TITLE:** 2R13 Evaluation of Degradation in Unit 2 Suppression Pool Inaccessible Areas

### PREFACE:

This Technical Evaluation is performed in accordance with CC-AA-309-101, Rev. 14. The Limerick suppression pool is safety related; therefore, an Independent Review will be performed. A Pre-Job Brief and Technical Task Risk/Rigor Assessment was performed for this evaluation in accordance with HU-AA-1212, Rev. 6. This review identified a Risk Rank of 1 (existing process reviews) based on a "Low" Consequence Risk Factor.

### REASON FOR EVALUATION / SCOPE

During 2R13, desludging of the entire suppression pool and a limited inspection of the suppression pool was performed as part of the coating maintenance plan per work order R1264292 (Reference 9). This work is required by License Renewal Commitment T04743 (Reference 12). Core spray suction strainers 2B1-F214 (PIMS component ID 2B1F214) and 2D1-F214 (PIMS component ID 2D1F214) were designated for removal from their respective penetrations to support inspection and recoating activities. The intent of the strainer removal was twofold:

1. Inspect the previously inaccessible wall/floor plates behind/beneath each strainer;
2. Perform large area recoating prior to reinstallation of the strainers

During 2R13, both the 2B1-F214 and 2D1-F214 core spray suction strainers were successfully removed from their penetrations making the previously inaccessible areas behind and beneath the strainers available for inspection. Examinations were performed to determine general plate condition in the previously inaccessible area and identify any areas requiring recoating. Only the previously inaccessible areas behind and beneath the 2B1-F214 core spray suction strainer were recoated during 2R13. The inaccessible areas behind and beneath the 2D1-F214 core spray suction strainer were not recoated.

During 2R13 recoating of the suppression pool floor plates, two surface anomalies were identified (Refer to IR 2486552 and IR 2488304). These surface anomalies were small areas of liner plate that were reported to be raised upwards from the surrounding floor plates. These areas were ultrasonically examined to determine the wall thickness in the raised area and the surrounding floor plate. The results of the ultrasonic exams revealed that the wall thickness of the liner plates was consistent between the raised and surrounding areas and that all measurements were within manufacturing tolerances.

This evaluation is being performed to document the as-found condition of the inaccessible areas behind and beneath the 2B1-F214 and 2D1-F214 core spray suction strainers, provide a final disposition of the two surface

anomalies reported on floor plates, and to identify future actions required for corrosion identified in other inaccessible areas of the Limerick Unit 2 suppression pool.

## DETAILED EVALUATION

During the previous Limerick Unit 2 refueling outage (2R12), visual examinations of the suppression pool liner were performed in accordance with the requirements of ASME Section XI, 2001 Edition through 2003 Addenda (Reference 1), Subsection IWE for the Inservice Inspection of Class MC and Class CC pressure retaining components. As such, areas that could not be viewed at an angle greater than 30-degrees from the plane of the component being inspected (i.e. behind and/or around the ECCS suction strainers) were documented as "inaccessible areas". Therefore, no condition assessment was documented on the examination records since adequate visual access for a qualified VT inspection could not be achieved. Procedure ER-AA-330-007 (Reference 2) was used to evaluate the "inaccessible areas". The procedure requires an evaluation in accordance with 10CFR50-55a(b)(2)(ix)(A) be performed to determine the acceptability of the degradation in the inaccessible locations. 10CFR50.55a (Reference 3) requires the following to be addressed:

1. Description of the type and estimated extent of the degradation, and the conditions that led to the degradation.
2. Evaluation of each area and the results of each evaluation.
3. Description of the necessary corrective actions.

Refer to IR 1502066-02 (Reference 14) for the 2R12 Unit 2 inaccessible area evaluation required per 10CFR50.55a. One of the actions resulting from the evaluation following 2R12 was to remove two suction strainers to perform inspections of the inaccessible area and recoat as required during future refueling outages.

## Design Attributes

The suppression pool is designed to have a metal liner that is supported by concrete. The liner is designed as a membrane pressure barrier. The liner function is to increase the containment integrity with regard to the ability to retain gasses and water within the containment during normal and accident conditions. A protective coating was applied to the liner to protect the liner from corrosion. The suppression pool liner is made up of several 1/4 inch (250 mills) carbon steel plates (ASTM A 285) that are coated with a porous zinc coating.

The zinc coating protects the metal surface because the zinc preferentially sacrifices itself to the corrosion. As the zinc dissipates, the amount of protection of the metal liner decreases, and once the zinc is depleted, the protection stops. A number of locations in the Limerick Unit 2 suppression pool have depleted the zinc coating. With the loss of the protective coating, some areas on the liner plates have started to corrode.

An evaluation of the corrosion of the Limerick suppression pool was performed by Structural Integrity Associates, titled "*Corrosion Evaluation of the Limerick Mark II Containment*" (Reference 4). This evaluation determined the corrosion occurring in the Limerick suppression pool is general corrosion (rust), and not the more aggressive pitting corrosion damage mechanism. This corrosion can be over a large area (general) or localized (spot) over a smaller area. The corrosion identified in the Limerick Unit 2 suppression pool is categorized as general corrosion, localized general corrosion or tiger striping, a description of each type of corrosion is provided below.

- **General Corrosion:** Also known as "uniform corrosion". This term refers to corrosion that completely covers a surface of more than several square inches. Metal loss is generally uniform across the exposed area and typically does not involve much section loss.
- **Localized General Corrosion (Spot Corrosion):** Spot corrosion is simply general corrosion that presents itself as localized "spots" of exposed substrate on a coated surface. Spots are generally less than a few square inches each but may be up to several square inches. Metal loss is generally uniform across each exposed area and typically does not involve much section loss. Spot corrosion should not be confused with pitting corrosion which is a highly localized and accelerated degradation of base metal typically in the presence of an aggressive anion such as chlorine.

- **Tiger Striping:** Relative to coatings in immersion service, tiger striping is a condition unique to inorganic zinc-rich coatings. It is a coating condition that is found on vertical surfaces, typically in stagnant, underwater conditions. In the early stage, it appears in alternating vertical light and dark stripes within the coating itself. The light stripe usually acts as the cathode and the dark stripe as the anode. Over time, zinc in the anodic areas is depleted/consumed giving way to corrosion of the substrate. It is essentially general corrosion in dense vertically aligned corrosion nodules. Like general corrosion, associated metal loss is typically minor.

The inspection of the submerged portion of the suppression pool is performed by qualified divers. The inspectors perform a general visual (VT-3) inspection of the liner to identify areas of degradation. The inspectors then perform a detailed visual (VT-1) inspection of the degraded areas to determine the metal loss of the degraded areas. To perform a VT-1 inspection, the angle must be 30 degrees or greater from the plane of the component being inspected per ER-AA-335-014-2003, VT-1 Visual Inspections (Reference 5). Additionally, the VT-1 inspection uses depth gages to measure the metal loss on the plates. Procedure ER-AA-335-018, Visual Examination of ASME IWE Class MC and Metallic Liners of CC Components (Reference 6), describes these inspections. The results of the inspections are compared to the owner defined pre-established acceptance criteria.

The Limerick acceptance criteria are contained in Limerick Specification NE-101 (Reference 7). The general corrosion allowance before requiring a metal repair is:

- General metal loss over a large area (with a diameter greater than 12.5 inches) greater than 125 mils.
- Localized metal loss (diameter less than or equal to 2.5 inches) greater than 187.5 mils.

At the time of construction, the design thickness of the suppression pool plates was a minimum of 250 mils. During 2R12 (2013) four plates had ultrasonic thickness measurements taken in accordance with the requirements of license renewal commitment T04743 (Reference 12). The thickness of the Unit 2 plates ranged from a low of 259 mils to a high of 269 mils. Complete inspection results can be reviewed in the Limerick Li2R12 Suppression Chamber Project Final Report (Reference 10). The metal loss values given for the acceptance criteria above assume the plates had an initial thickness of 250 mils at the time of construction. Since the plates are thicker, the allowable metal loss would increase by the amount of metal over 250 mils.

### **Evaluation by Area**

The corrosion rates of the Limerick Unit 2 suppression pool have been very low. This is due to the inert atmosphere of the suppression pool during plant operations and the water quality of the suppression pool. The corrosion of the submerged portion of the suppression pool liner is being trended by the establishment of several corrosion evaluation grids. Inspection of these areas was performed during outages in 1995, 1997, 2009, and 2013 for Limerick Unit 2. The data obtained from these inspections suggests that the metal liner with no coating is experiencing an average general corrosion rate of approximately 1 to 2 mils per year (Reference 10).

During 2R12, the inspector identified degradation in the inaccessible areas behind several obstructions. The inspectors performed an unqualified observation of the degradation in the inaccessible areas. The observations were considered an unqualified observation because the inspection angle was less than the 30 degree angle required by station procedures. Although the inspection was unqualified, the inspectors were able to perform an assessment of the condition of the degradation in the inaccessible areas.

Below is an excerpt from the 2R12 evaluation (Reference 14) for the areas behind the 2B1-F214 and 2D1-F214 core spray suction strainers that identifies the type of corrosion observed and a description of the corrosion adjacent to the inaccessible areas.

**Behind 2B Core Spray Suction Strainer (2B1-F214)**

|   |  |
|---|--|
| Affected Plate:                             | 2-WP-02B (Area = 221.2 ft <sup>2</sup> )   |
| Obstructed Area:                            | 50" X 72" (25.0 ft <sup>2</sup> )  |
| Percent Obstructed:                         | 11.3%  |
| Type of Corrosion:                          | General and Spot Corrosion   |
| Assessment of corrosion in accessible areas | Isolated general corrosion resembling tiger striping with a metal loss of less than 5 mils, random and isolated areas of general corrosion with a metal loss less than 10 mils, and isolated areas of spot corrosion with a metal loss less than 5 mils. |

|   |   |
|---|---|
| Affected Plate:                             | 2-WP-03A (Area = 221.2 ft <sup>2</sup> )  |
| Obstructed Area:                            | 50" X 72" (25.0 ft <sup>2</sup> )   |
| Percent Obstructed:                         | 11.3%   |
| Type of Corrosion:                          | General corrosion   |
| Assessment of corrosion in accessible areas | General corrosion resembling tiger striping with a metal loss of less than 10 mils. |

Assessment of corrosion in inaccessible area:

2B1-F214: The corrosion that is observed in the inaccessible areas is similar to the accessible areas around the suction strainer with the exception of the general corrosion resembling tiger striping on the lower wall panels. The corrosion becomes denser as it passes into the inaccessible areas.

**Behind 2D Core Spray Suction Strainer (2D1-F214)**

|   |  |
|---|--|
| Affected Plate:                             | 2-WP-02A (Area = 208.8 ft <sup>2</sup> )   |
| Obstructed Area:                            | 50" X 72" (25.0 ft <sup>2</sup> )  |
| Percent Obstructed:                         | 12.0%  |
| Type of Corrosion:                          | General corrosion  |
| Assessment of corrosion in accessible areas | General corrosion resembling tiger striping with a metal loss of less than 10 mils |

|   |  |
|---|--|
| Affected Plate:                             | 2-WP-01B (Area = 215 ft <sup>2</sup> )   |
| Obstructed Area:                            | 36" X 31" (7.8 ft <sup>2</sup> )   |
| Percent Obstructed:                         | 3.6%   |
| Type of Corrosion:                          | General and Spot Corrosion   |
| Assessment of corrosion in accessible areas | General corrosion with a metal loss of less than 30 mils was observed in approximately 1% of the plate. UT was performed in the degraded area and the actual thickness was 0.251", the non-degraded plate thickness was 0.259". One area of spot corrosion was identified with a metal loss of 117.7 mils, which was recoated to arrest further corrosion in the outage of discovery (2R12). |

Assessment of corrosion in inaccessible area:

2D1-F214: The corrosion that is observed in the inaccessible areas is similar to the accessible areas around the suction strainer with the exception of the general corrosion resembling tiger striping on the lower wall panels. The corrosion becomes denser as it passes into the inaccessible areas.

**Actions**

Following the 2R12 refueling outage, two actions to monitor and correct corrosion in the inaccessible areas of the suppression pool were pursued:

Action 1 - Develop a method to perform remote inspections of the inaccessible areas.

This action is to develop a method to perform remote inspections of the inaccessible areas around the ECCS suction strainers. A method must also be developed and qualified to apply coating in the inaccessible areas, in order to repair the coating and arrest any further degradation that is identified. (Reference IR 1364843-10). At



the time of 2R13, a method of remote inspection and repair of the coating behind the suction strainers has not been developed. Therefore, it was decided to pursue Action 2, to remove suction strainers, perform inspections of the inaccessible areas, and recoat areas behind the strainers while they are removed.

**Action 2 – Remove the suction strainers to perform inspections and recoat as required.**

If a remote inspection of the inaccessible areas cannot be performed, the station will remove two suction strainers each outage to make the inaccessible areas accessible (Reference IR 1502066-05). The selection of the suction strainers for removal will be based on the condition of the accessible areas around the suction strainers. If adverse conditions are identified during the inspection of the inaccessible areas, the inspection scope will be expanded to other suction strainers. When a suction strainer is removed, the degraded areas will be inspected to determine the extent of corrosion. After the areas are inspected, the areas will be recoated to stop the corrosion.

**2R13 Inspection Results and Evaluation:**

During 2R13 Core Spray Strainer 2B1-F214 and 2D1-F214 were removed and the areas behind and beneath the strainers were made accessible for visual inspection. Below is a summary of the 2R13 inspection results of the previously inaccessible areas behind and beneath the 2B1-F214 and 2D1-F214 core spray suction strainers. This information is taken from the 2R13 Limerick 2 Suppression Pool Inspection Record (Reference 13).

| <b>Affected Plate:</b> | <b>Adjacent Strainer</b> | <b>2R13 Exam Results</b>   |
|------------------------|--------------------------|--|
| Floor plate 2-FP-06A-1 | CS-B                     | Random spot corrosion affecting substrate 75 count 0.25 in. dia. per indication 17.5in. x 100in. area. Metal loss <40 mils     |
| Wall plate 2-WP-02B-1  | CS-B                     | Random spot corrosion affecting substrate 75 count 0.50 in. dia. per indication 87in. x 43in. area. Metal loss <30 mils        |
| Wall plate 2-WP-03A-1  | CS-B                     | Random spot corrosion affecting substrate 20 count 0.125 in. dia. per indication 100in. x 103in. area. Metal loss <30 mils     |
| Wall plate 2-WP-03A-1  | CS-B                     | Random tiger striping affecting substrate 30 count 1in. x 8in. per indication, 100in. x 108in. area. Metal loss <40 mils       |
| Wall plate 2-WP-03B-1  | CS-B                     | Random spot corrosion affecting substrate 10 count 0.50 in. dia. per indication 15in. x 43in. area. Metal loss <20 mils        |
| Floor plate 2-FP-02A-1 | CS-D                     | Isolated general corrosion affecting substrate 1 count 0.5in. x 22in. per indication 17.5in. x 20in. area. Metal loss <20 mils |
| Floor plate 2-FP-02A-1 | CS-D                     | Random spot corrosion affecting substrate 20 count 0.25 in. dia. per indication 17.5in. x 58in. area. Metal loss <30 mils      |
| Wall plate 2-WP-01B-1  | CS-D                     | Random spot corrosion affecting substrate 20 count 0.25 in. dia. per indication 50in. x 39in. area. Metal loss <20 mils        |
| Wall plate 2-WP-01B-1  | CS-D                     | Isolated general corrosion affecting substrate 1 count 2.5in. x 28in. per indication 50in. x 39in. area. Metal loss <30 mils   |
| Wall plate 2-WP-02A-1  | CS-D                     | Random spot corrosion affecting substrate 40 count 0.125 in. dia. per indication 58in. x 102.5in. area. Metal loss <20 mils    |
| Wall plate 2-WP-02A-1  | CS-D                     | Random tiger striping affecting substrate 5 count 0.5in. x 24in. per indication, 58in. x 102.5in. area. Metal loss <20 mils    |
| Wall plate 2-WP-02A-1  | CS-D                     | Random general corrosion affecting substrate 5 count 5in. x 12in. per indication 58in. x 102.5in. area. Metal loss <40 mils    |
| Wall plate 2-WP-02B-1  | CS-D                     | Random general corrosion affecting substrate 1 count 5in. x 6in. per indication 39in. x 4.5in. area. Metal loss <30 mils       |
| Wall plate 2-WP-02B-1  | CS-D                     | Isolated general corrosion affecting substrate 1 count 0.5in. x 39in. per indication 39in. x 4.5in. area. Metal loss <30 mils  |
| Wall plate 2-WP-02B-1  | CS-D                     | Isolated general corrosion affecting substrate 1 count 1.5in. x 7in. per indication 39in. x 4.5in. area. Metal loss <20 mils   |

Specification NE-101 identifies the acceptance criteria for general corrosion and spot corrosion. For general corrosion, any indications greater than 25 mils average plate thickness loss will be recoated based on ranking of affected surface area high to low. Based on the 2R13 inspection results, there were several areas behind the 2B1-F214 and 2D1-F214 core spray suction strainers that exhibit general corrosion in excess of 25 mils. For

spot corrosion, any indications that are greater than 50 mils plate thickness loss will be recoated in the outage that they are identified. Based on the 2R13 inspection results, there were no new spot indications behind either the 2B1-F214 or 2D1-F214 core spray suction strainers that meet or exceed this criteria. A large area recoat of the area behind the 2B1-F214 core spray suction strainer was performed to regain margin in this area.

Following the large area recoat activity, there are no longer any areas behind the 2B1-F214 core spray suction strainer that exceed the recoat criteria for general corrosion or spot corrosion. Due to schedule constraints, the previously inaccessible areas behind the 2D1-F214 core spray suction strainer were not recoated during 2R13. Several areas of general corrosion that exceed the 25 mil general corrosion recoat criteria were left uncoated. As specified in License Renewal Commitment T04743, these areas will be recoated in a future outage based on an evaluation and ranking of all areas of general corrosion remaining in the Limerick Unit 2 suppression pool.

### **Assessment of General Corrosion**

The general corrosion observed in the previously inaccessible areas behind the 2B1-F214 and 2D1-F214 core spray suction strainers is comparable in magnitude and severity to the general corrosion that has been observed throughout the accessible areas of the Unit 2 suppression pool.

A review of the 2R12 inspection data (Reference 10) for the accessible areas adjacent to the 2B1-F214 (wall plates 2-WP-02B-1, 2-WP-03A-1, 2-WP-03B-1, & floor plate 2-FP-06A-1) identified general corrosion with a maximum metal loss of 10 mils for the wall plates and 35 mils for the floor plates. Inspection of the previously inaccessible areas behind and beneath 2B1-F214 during 2R13 revealed general corrosion with a maximum metal loss of 40 mils for the wall plates and 0 mils for the floor plates. During 2R13 the previously inaccessible areas behind and beneath the 2B1-F214 core spray suction strainer were recoated. Therefore no areas of general corrosion currently exist in the inaccessible areas behind and beneath the 2B1-F214 core spray suction strainer.

A review of the 2R12 inspection data (Reference 10) for the accessible areas adjacent to the 2D1-F214 (wall plates 2-WP-02A-1, 2-WP-01B-1, 2-WP-02B-1 and floor plate 2-FP-02A-1 and 2-FP-03A-1) identified general corrosion with a maximum metal loss of 30 mils for the wall plates and 20 mils for the floor plates. Inspection of the previously inaccessible area behind and beneath 2D1-F214 during 2R13 revealed general corrosion with a maximum metal loss of 40 mils for the wall plates and 20 mils for the floor plates. The inaccessible areas behind and beneath the 2D1-F214 core spray suction strainer were not recoated during 2R13. The areas of general corrosion that exceed 25 mils behind the 2D1-F214 core spray suction strainer will need to be recoated in a future outage based on a ranking of all areas of general corrosion present in the Limerick Unit 2 suppression pool.

The general corrosion rate of the submerged portion of the suppression pool liner is being trended and has an average of 1 to 2 mils metal loss per year based on data collected during several ASME Section XI, IWE inspections performed since 1995 (Reference 10). The maximum corrosion rate identified during this time is 2.3 mils per year. This is in line with the corrosion rate of 1.8 mils per year determined by an engineering analysis for uncoated carbon steel components in the suppression pool for the Limerick specific suppression pool water chemistry and operating temperature (Reference 4). If the maximum measured corrosion rate of 2.3 mils per year is assumed, and the worst area of general corrosion identified in the previously inaccessible areas behind and beneath the 2D1-F214 suction strainer is considered representative of the inaccessible areas of other ECCS suction strainers, the maximum general corrosion in the inaccessible areas would grow to a depth of 44.6 mils (40 mils + 2 years x 2.3 mils/year) by the start of the 2R14 refueling outage. This is still well below the metal repair criteria of 125 mils for general corrosion and is acceptable for continued service.

### **Assessment of Spot Corrosion**

The spot corrosion observed in the previously inaccessible areas behind the 2B1-F214 and 2D1-F214 core spray suction strainers is less severe in magnitude compared to the spot corrosion that has been observed throughout the accessible areas of the Unit 2 suppression pool. The maximum depth of spot corrosion identified to date in the Limerick Unit 2 suppression pool was 117.2 mils. This indication was located on wall plate 2-WP-01B-1 and was identified and recoated during 2R12 (2013). There have been a number of other spot corrosion indications identified in the Limerick Unit 2 suppression pool that exceed the 50 mil recoat criteria. As of the end of 2R13, all known indications of spot corrosion exceeding the recoat criteria in the Limerick Unit 2 suppression pool have been recoated.

Inspection of the previously inaccessible areas behind and beneath 2B1-F214 during 2R13 revealed spot corrosion with a maximum metal loss of 30 mils for the wall plates and 40 mils for the floor plates. During 2R13 the previously inaccessible areas behind and beneath the 2B1-F214 core spray suction strainer were recoated. Therefore no areas of spot corrosion currently exist in the inaccessible areas behind and beneath the 2B1-F214 core spray suction strainer. Inspection of the previously inaccessible area behind and beneath 2D1-F214 during 2R13 revealed spot corrosion with a maximum metal loss of 20 mils for the wall plates and 30 mils for the floor plates.

During the 2R13 inspection of the inaccessible areas behind and beneath the 2B1-F214 and 2D1-F214 core spray suction strainer no new areas of spot corrosion were identified that exceeded the recoating criteria. The maximum depth of spot corrosion identified and left uncoated during 2R13 was 30 mils on floor plate 2-FP-03A-1. This is well below the structural integrity limit and the recoat criteria. Based on the current depth of 30 mils and the maximum corrosion rate of 2.3 mils/year, the spot corrosion identified in the inaccessible areas of the 2D1-F214 core spray suction strainer will exceed the recoat criteria of 50 mils by 2023 ( $50 \text{ mils} = 30 \text{ mils} + \# \text{ years} \times 2.3 \text{ mils/year}$ ). Therefore, the 2D1-F214 core spray suction strainer needs to be removed during (or before) 2R17 to ensure the requirements of license renewal commitment T04743 are met. IR 2493279 was generated to document the need to remove the 2D1-F214 core spray suction strainer during (or before) 2R17 to perform recoating. This will ensure that the spot corrosion does not grow to a depth greater than the 50 mil recoat criteria defined in license renewal commitment T04743.

### **Aggregate Review**

The most significant metal loss measured to date in the Limerick Unit 2 suppression pool was on plate 2-WP-01B-1. This plate experienced an area of spot corrosion with metal loss of 117.2 mils (Reference 10). This area of spot corrosion was discovered and spot recoated during refueling outage 2R12. If an area of spot corrosion with a metal loss of 117.2 mils were to exist in any of the inaccessible areas of the Limerick Unit 2 suppression pool and if the maximum metal loss rate of 2.3 mils/year is assumed, the depth would increase to 121.8 mils ( $117.2 \text{ mils} + 2 \text{ years} \times 2.3 \text{ mils/year}$ ) by 2R14. Based on the 2R13 inaccessible area inspections performed behind the 2B1-F214 and 2D1-F214 core spray suction strainers and historic data, the worst case predicted pit depth for spot corrosion is still well below the repair criteria of 187.5 mils. The inaccessible areas of the suppression pool will continue to be made available for inspection during future outages based on the condition of the plates adjacent to the strainers.

### **Evaluation of Reported Plate Surface Anomalies**

During large area recoating of the floor plates, two surface anomalies were reported. These areas were described by the divers as areas where the plate had an upward deflection from the normal plane of the plate. In both instances the anomalies were not visually identified, rather they were identified by the diver running their hand or a tool over the raised area. The dimensions and location of the two surface anomalies are provided below.

|                |   |
|----------------|---|
| Anomaly #1     |   |
| Location       | Floor plate 2-FP-06A-1, located in annulus ring area at 65 degree azimuth. Long axis is perpendicular to wall |
| Size           | 9 inch x 3 inch   |
| Max Deflection | 1/8 inch  |

|                |  |
|----------------|--|
| Anomaly #2     |  |
| Location       | Floor plate 2-FP-03A-1, located 60" from right leak chase and 39" from top leak chase approximately 12" north of tee quencher. |
| Size           | 2 inch x 5 inch  |
| Max Deflection | 1/4 to 3/8 inch  |

An ultrasonic examination of each surface anomaly was performed in order to assess the thickness of the suppression pool liner plate in these areas. Ultrasonic examination readings were obtained by having the diver

position the UT probe per the direction of the certified inspector who interpreted the results. The tables below provide the results of the ultrasonic examinations for each surface anomaly.

|   |        |        |                  |        |
|---|--------|--------|------------------|--------|
| Surface Anomaly #1, (5 readings were taken along the length and 3 across the width) |        |        |                  |        |
| Floor plate 2-FP-06A-1  |        |        |                  |        |
| Surrounding area wall thickness: 0.270" average                                     |        |        |                  |        |
| 0.271"  | 0.280" | 0.277" | 0.262" (minimum) | 0.268" |
| 0.277"  | 0.268" | 0.264" | 0.274"           | 0.265" |
| 0.271"  | 0.272" | 0.277" | 0.275"           | 0.276" |

|   |                  |                  |  |  |
|---|------------------|------------------|--|--|
| Surface Anomaly #2, (3 readings were taken along the length and 3 across the width) |                  |                  |  |  |
| Floor plate 2-FP-03A-1  |                  |                  |  |  |
| Surrounding area wall thickness: 0.286" average                                     |                  |                  |  |  |
| 0.286"  | 0.284"           | 0.295" (maximum) |  |  |
| 0.285"  | 0.281" (minimum) | 0.291"           |  |  |
| 0.283"  | 0.281" (minimum) | 0.290"           |  |  |

The suppression pool liner plate material specification (ASTM A 285) references ASTM A 20, *General Requirements for Steel Plates for Pressure Vessels*, which provides the permissible variations in thickness for steel plates ordered to thickness. The minimum wall thickness recorded on floor plate 2-FP-06A-1 was 0.262 inches while the minimum wall thickness recorded on floor plate 2-FP-03A-1 was 0.281 inches. The minimum wall thickness required for the suppression pool liner plates at the time of construction was 0.250 inches. The minimum wall thickness required for structural integrity of the liner plate for general corrosion is 0.125 inches. The maximum reading recorded during the ultrasonic examination of the two surface anomalies was 0.295 inches. The maximum wall thickness recorded during ultrasonic examination of the surface anomalies is within the permissible variation and is therefore not a concern.

Based on the wall thickness measurements attained during 2R13, the surface anomalies identified on floor plate 2-FP-06A-1 and 2-FP-03A-1 have significant margin available to all established repair criteria, are acceptable for continued service, and have no negative impact on the ability of the suppression pool floor plates to perform their intended function. This condition does not appear to be service induced and is likely due to fit up and fabrication of the suppression pool liner during original construction.

## CONCLUSIONS / FINDINGS

Based on the 2R13 inspection of the inaccessible areas behind and beneath the 2B1-F214 and 2D1-F214 core spray suction strainers, the spot corrosion and general corrosion experienced in the inaccessible areas of the Limerick Unit 2 suppression pool is approximately the same magnitude and severity as the accessible areas. All spot corrosion and general corrosion indications identified in the areas behind the 2B1-F214 and 2D1-F214 suction strainers have a significant margin available to the structural integrity limit and therefore are not a challenge to the function of the liner. With the low corrosion rate and current measured liner plate thickness data, continued operation with corrosion in the inaccessible areas of the Limerick Unit 2 suppression pool is acceptable. Additionally based on the data gathered during 2R13 and a review of design information, floor plates 2-FP-06A-1 and 2-FP-03A-1 are within design specifications and are acceptable. During the next refueling outage (2R14), the actions identified to inspect and recoat the inaccessible areas of the Limerick Unit 2 suppression pool will continue to be implemented to ensure compliance with the requirements of license renewal commitment T04743. IR 2493267 was generated to determine the ECCS suction strainers to be removed during 2R14 and ranking of plates for large area recoat based on the as-left conditions.

**REFERENCES:**

1. ASME Section XI 2001 Edition through 2003 Addenda
2. ER-AA-330-007, Visual Examination of Section XI Class MC Surfaces and Class CC Liners, Revision 9
3. 10CFR50.55a, Codes and standards, Revision July 2014
4. Structural Integrity Associates Report 1101502.401, Corrosion Evaluation of the Limerick Mark II Containment, Revision 0 (IR 1364843-07)
5. ER-AA-335-014-2003, VT-1 Visual Examination, Revision 0
6. ER-AA-335-018, Visual Examination of ASME IWE Class MC And Metallic Liners of IWL Class CC Components, Revision 10
7. Limerick Specification NE-101, Coating And Liner Inspection/Coating Repair of Suppression Chambers, Revision 7
8. Not used
9. Work Order R1264292, Perform Inspection of Suppression Pool Coatings
10. 2R12ISI7 Limerick 2R12 Suppression Chamber Project, April 2013
11. C-0281, React Bldg Liner Plate Req. Floor Plan & Details # 1, 2, Revision 12
12. License renewal commitment T04743.
13. 2R13ISI7 Limerick 2R13 Suppression Chamber Project, April 2015.
14. IR 1502066-02, 2R12 Tech Eval for Corrosion in Inaccessible Areas of Unit 2 Suppression Pool, June 2013

**ATTACHMENTS:**

1. UT Thickness Examination Data Sheets (3 pages)

**PREPARER:** M. Weis Date: 5/5/2015

**INDEPENDENT REVIEWER:** M. Gandhi Date: 5/5/2015

M. Karasek  
(ISI Qualified) Date: 5/5/2015

**Independent Reviewer Comments:**

I have performed an Independent Review of this technical evaluation per CC-AA-309-101. I have reviewed the reference documents and agree with the inputs. The outputs, conclusions, and actions are reasonable and well supported by the inspection results from 2R13. An Independent Review was performed by an individual qualified per N-AN-ENG-CERT-PG04 (ISI/CISI/Component Supports) who is familiar with the 10CFR50.55a requirements for evaluating inaccessible areas of the suppression pool. Minor comments were made and have been incorporated.

**APPROVER:** M. DiRado Date: 5/5/2015

### **Section 3: Summary of ASME Section XI Repairs and Replacements**

#### **SYSTEM 001**

#### **MAIN STEAM**

|          |   |
|----------|---|
| C0249550 | HV-001-250 Replaced 4" Velan gate valve wedge |
|----------|---|

#### **SYSTEM 011**

#### **EMERGENCY SERVICE WATER**

|          |   |
|----------|---|
| C0249554 | 011-2007 Replaced 6" ESW check valve                                      |
| R1200861 | 011-2009 Replaced 6" ESW check valve disc and hinge pin                   |
| R1257832 | 011-2012 8" check valve inspection – replaced disc and hinge pin          |
| C0248101 | HBC-245-01 Replaced 3" ESW piping due to raw water corrosion              |
| C0252739 | HBC-295-H002 Installed stiffeners on 6" ESW pipe support per ECR 14-00177 |

#### **SYSTEM 041**

#### **NUCLEAR BOILER**

|          |  |
|----------|--|
| R1268699 | Replaced two studs on N6A flange   |
| R1268699 | Replaced one stud on N6B flange  |
| R1268699 | SP-DBA-210-E001 Replaced six studs and twelve nuts   |
| R1265847 | SP-DCA-292-E001 Replaced four studs and eight nuts   |
| C0248099 | HV-041-209A Replaced 16" Velan pressure seal valve bonnet. Replaced bonnet leak off pipe plug with ASME material and seal welded |

#### **SYSTEM 041**

#### **MAIN STEAM ISOLATION VALVES**

|                     |   |
|---------------------|---|
| C0257301            | HV-041-2F022A Replaced MSIV body to bonnet stud and nut   |
| R1194509 & R1123412 | HV-041-2F022A-OP Replaced MSIV pneumatic control manifold S/N B68367 with rebuilt manifold S/N 52728. Rebuilt on R1123412.  |
| R1201949 & R1140664 | HV-041-2F022B-OP Replaced MSIV pneumatic control manifold S/N 52898 with rebuilt manifold S/N 52897. Rebuilt on R1140664.   |
| R1201765 & R1073651 | HV-041-2F022C-OP Replaced MSIV pneumatic control manifold S/N B67221 with rebuilt manifold S/N B67223. Rebuilt on R1073651. |
| R1196666 & R1139385 | HV-041-2F022D-OP Replaced MSIV pneumatic control manifold S/N B67222 with rebuilt manifold S/N B68366. Rebuilt on R1139385. |

#### **SYSTEM 041**

#### **MAIN STEAM RELIEF VALVES**

|          |  |
|----------|--|
| C0251177 | PSV-041-2F013B Replaced MSRV body S/N 174 and pilot S/N 027 with reworked body S/N 158 and pilot S/N 006. Replaced MSRV main disc.               |
| C0247946 | PSV-041-2F013D Replaced MSRV body S/N 189 and pilot S/N 031 with reworked body S/N 190 and pilot S/N 017.  |
| R1260776 | PSV-04102F013E Replaced MSRV body S/N 185 and pilot S/N 004 with reworked body S/N 164 and pilot S/N 023. Replaced outlet flange studs and nuts. |
| C0250866 | PSV-041-2F013F Replaced MSRV body S/N 178 and pilot S/N 010 with reworked body S/N 154 and pilot S/N 038. Replaced MSRV main disc.               |

#### **SYSTEM 047**

#### **CONTROL ROD DRIVES**

|          |   |
|----------|---|
| R1265569 | 2R13 Control Rod Drive Replacements (multiple components) |
|----------|---|

**SYSTEM 048****STAND-BY LIQUID CONTROL**

|          |  |
|----------|--|
| R1114173 | XV-048-2F004A Replaced explosive valve primer chamber and inlet fitting on explosive valve |
| R1129220 | XV-048-2F004C Replaced explosive valve primer chamber and inlet fitting on explosive valve |

**SYSTEM 051****RESIDUAL HEAT REMOVAL**

|                     |  |
|---------------------|--|
| R1270605            | HV-051-2F014B Replaced disc and disc guides in 20" RHRSW gate valve  |
| C0257154            | HV-051-2F041D Replaced disc in 12" RHR LPCI check valves   |
| C0234158 & C0257230 | HV-051-2F050A Replaced disc and seat ring in 12" RHR shut down cooling check valve   |
| R1260782            | HV-051-2F050B Replaced disc in 12" RHR shut down cooling check valve   |
| C0253199 & C0253200 | 051-2204 Installed Fukushima FLEX piping connection in GBB-210-01 RHR piping to comply with NRC Order EA-12-049. ECR 14-00017. |
| C0255061 & C0255065 | 051-2F124B Installed 6" Fukushima FLEX piping in HBC-283-01 RHRSW pipe to comply with NRC Order EA-12-049. ECR 14-00014.       |
| C0255061 & C0255069 | 051-2F126B Installed 4" Fukushima FLEX piping in GBB-218-04 RHR pipe to comply with NRC Order EA-12-049. ECR 15-00073.         |
| C0255061 & C0255069 | GBB-230-H001 installed pipe support for Fukushima Flex piping. ECR 15-00073.   |

**SYSTEM 052****CORE SPRAY**

|             |   |
|-------------|---|
| R1264292-62 | 2D1F214 Replaced flange stud and nut on pump suction strainer       |
| C0250941    | 052-2051A Replaced 1-1/2" check valve and adjacent pipe             |
| C0236631    | 052-2051B Replaced 1-1/2" check valve disc                          |
| R0976111    | PSV-052-2F032C Replaced 2" thermal relief valve and adjacent piping |

**SYSTEM 053****FUEL POOL COOLING**

|                     |  |
|---------------------|--|
| C0255732 & C0253199 | 053-2157 Installed Fukushima Flex piping connection in HCC-204-02 fuel pool cooling pipe to comply with NRC order EA-12-049. |
|---------------------|--|

**SYSTEM 055****HPCI**

|          |  |
|----------|--|
| C0254188 | 055-2026 Rework 4" check valve for LLRT leakage                              |
| C0254147 | 055-2F094 Rework 4" check valve for ST-4-055-953-2 seat leakage              |
| C0249557 | HV-055-2F093 Replace 4" HPCI motor operated gate valve for LLRT seat leakage |
| C0244925 | 20-P204 Replace HPCI booster pump seals and seal flanges                     |
| C0257034 | EBB-208-H048 repair / replace transition tube                                |

**SYSTEM 056****HPCI PUMP & TURBINE**

|          |   |
|----------|---|
| C0251189 | 056-2F048 Replace disc in 2" check valve                    |
| R1202455 | PSE-056-2D003 Replaced HPCI turbine rupture disc and holder |
| R1195821 | PSE-056-2D004 Replaced HPCI turbine rupture disc and holder |

**SYSTEM 057****CONTAINMENT ATMOSPHERE CONTROL**

|          |   |
|----------|---|
| R1099036 | SV-057-201 Replace 2" solenoid valve and adjacent piping and pipe support |
|----------|---|

**SYSTEM 092****DIESEL GENENATORS**

|                        |  |
|------------------------|--|
| <b>D21</b>             |  |
| C0245275 &<br>C0248639 | Replace D21 1-1/2" lube oil stand-by circulating oil pump            |
| C0248634               | 092-2302A Replace 1-1/2" air start diaphragm check valve             |
| C0248635               | 092-2303A Replaced 1-1/2" air start diaphragm check valve            |
| <b>D22</b>             |  |
| C0228037               | 2B1V909 Replaced diesel engine turbocharger                          |
| C0228034               | 2B2V909 Replaced diesel engine turbocharger                          |
| <b>D23</b>             |  |
| C0249378               | 092-2302C Replaced 1-1/2" air start diaphragm check valve            |
| C0249377               | 092-2303C Replaced 1-1/2" air start diaphragm check valve            |
| <b>D24</b>             |  |
| R1233316               | 2D-E586 Replaced diesel generator engine intercooler water box cover |
| C0230172               | 2D1V909 Replaced diesel generator engine turbocharger                |
| C0230190               | 2D2V909 Replaced diesel generator engine turbocharger                |
| C0253033 &<br>C0245629 | 2D-P530 Replaced diesel generator engine jacket water pump and motor |
| C0251119               | 092-2302D Replaced 1-1/2" air start valve                            |
| C0251102               | 092-2303D Replaced 1-1/2" air start valve                            |

**SYSTEM 103****SNUBBERS**

|                       |  |
|-----------------------|--|
| A1918578              | System-103-Q multiple hydraulic snubber installations  |
| A1918574/<br>A1918578 | System-103-Q multiple hydraulic snubber installations  |
| A1918574              | System-103-Q multiple hydraulic snubber installations  |
| A1918578              | System 103-Q multiple hydraulic snubber installations  |
| A1918574              | System-103-Q multiple mechanical snubber installations |
| A1903903/<br>A1902939 | System-103-Q multiple mechanical snubber installations |
| A1918579              | System-103-Q multiple mechanical snubber installations |
| A1918579/<br>A1918574 | System-103-Q multiple mechanical snubber installations |
| A1908251              | System-103-Q multiple mechanical snubber installations |
| A1918579              | System-103-Q multiple mechanical snubber installations |
| A1918574/<br>A1903903 | System-103-Q multiple mechanical snubber installations |



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

1. Owner Exelon Generation Company, LLC Date June 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0249550  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Main Steam (System 001) Line No. EBB-204 Valve HV- 001-250
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer 1973 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| 4" Gate Valve Wedge | Velan Valve          | S/N 5237                | N/A                | * 114-33571<br>PO# 168196 | 1999       | Installed                       | Yes                           |
|                     |                      |                         |                    |                           |            |                                 |                               |
|                     |                      |                         |                    |                           |            |                                 |                               |
|                     |                      |                         |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number

7. Description of work: Replaced 4" main steam gate valve wedge.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work purchase order.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date June 2, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 9, 2014 to JUNE 12, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions 14396 A, N, I PA 3045  
National Board, State, Province, and Endorsements

Date JUNE 12, 2015

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

1. Owner Exelon Generation Company, LLC Date May 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order C0249554  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Service Water (System 011) Line No. HBC-238 Check Valve 011-2007
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|-------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|----------------------------------|-------------------------------|
| 6" Check Valve 011-2007 | Flowserve            | BQ 940                  | N/A                | * 118-03556<br>PO# 070186 | 2015       | Installed                        | Yes                           |
| 6" Check Valve 011-2007 | Anchor Darling       | 3N 1004                 | N/A                | N/A                       | 1977       | Removed                          | Yes                           |
|                         |                      |                         |                    |                           |            |                                  |                               |
|                         |                      |                         |                    |                           |            |                                  |                               |
|                         |                      |                         |                    |                           |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 6" ESW swing check valve
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other 125 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks Manufacturers data reports are traceable by work order package.

Applicable Manufacturer's Data Reports to be attached

Check valve BQ 940 was constructed to ASME III, 1971 edition, summer 1971 addenda, code cases 1567, 1516-1, 1622

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed [Signature] J.H. Kramer, Site weld administrator Date May 2, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period JANUARY 5, 2015 to MAY 4, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 4, 2015

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

1. Owner Exelon Generation Company, LLC Date May 5, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order R1200861  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Service Water (System 011) Line No. HBC-243 Check Valve 011-2009
5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer 71 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|-----------------------------------|----------------------|-------------------------|--------------------|----------------------------|------------|----------------------------------|-------------------------------|
| 6" Check Valve 011-2009 Disc      | Flowserve            | Heat No. S8309-1 S/N 1  | N/A                | * 114-77340 PO# 067238     | 2014       | Installed                        | Yes                           |
| 6" Check Valve 011-2009 Hinge Pin | Flowserve            | Heat No. 32147-31208    | N/A                | * 114-77342 PO# 257797-629 | N/A        | Installed                        | No                            |
|                                   |                      |                         |                    |                            |            |                                  |                               |
|                                   |                      |                         |                    |                            |            |                                  |                               |
|                                   |                      |                         |                    |                            |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 6" swing check valve disc and hinge pin

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other 140 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks Manufacturers data reports are traceable by work order package.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Site weld administrator Date May 5, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period APRIL 19, 2015 to MAY 6, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date MAY 6, 2015

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

1. Owner Exelon Generation Company, LLC Date June 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order R1257832  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Service Water (System 011) Line No. HBC-268 Check Valve 011-2012
5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer 71 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|-----------------------------------|----------------------|--|--------------------|-------------------------------|------------|----------------------------------|-------------------------------|
| 8" Check Valve 011-2012 Disc      | Flowserve            | Heat No. J7033<br>S/N 2                | N/A                | * 114-77495<br>PO# 257797-685 | 2009       | Installed                        | Yes                           |
| 8" Check Valve 011-2012 Hinge Pin | Flowserve            | Heat No. G14872<br>Trace Code 35736-21 | N/A                | * 114-75167<br>PO# 041431     | N/A        | Installed                        | No                            |
|                                   |                      |  |                    |                               |            |                                  |                               |
|                                   |                      |  |                    |                               |            |                                  |                               |
|                                   |                      |  |                    |                               |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 8" swing check valve disc and hinge pin
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other 140 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks Manufacturers data reports are traceable by work order package.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Site weld administrator Date June 2, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period MAY 28, 2015 to JUNE 11, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 11, 2015



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

1. Owner Exelon Generation Company, LLC Date September 10, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0248101  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Service Water (System 011) Line No. 3" HBC-245-01
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-513-2, N-686-1

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) |
|---|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| HBC-245-01<br>10 Feet of<br>3" NPS pipe | United States Steel  | Heat No.<br>FA 1316     | N/A                | * 114-90060<br>PO# 060621 | N/A        | Installed                       | No                            |
| HBC-245-01<br>One (1) 3" NPS Tee        | Taylor Forge         | Heat Code<br>MOMQ-6     | N/A                | * 118-03215<br>PO# 067421 | N/A        | Installed                       | No                            |
|   |                      |                         |                    |                           |            |                                 |                               |
|   |                      |                         |                    |                           |            |                                 |                               |

\* Traceability through Exelon stock number and purchase order

7. Description of work: Replace 3" ESW piping due to corrosion
8. Tests conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐  
Other 190 psi Test Temp. 103 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, site weld administrator Date September 10, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period MAY 1, 2014 to OCTOBER 2, 2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions 14396 A, N, I PA 3045

National Board, State, Province, and Endorsements

Date OCTOBER 2, 2014

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

1. Owner Exelon Generation Company, LLC Date May 5, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order C0252739  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Service Water (System 011) Line No. HBC-295 Pipe Support HBC-295-H002
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1971 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---|----------------------|-------------------------|--------------------|-------------------------------|------------|----------------------------------|-------------------------------|
| HBC-295-H002<br>1/4 Inch Plate Stiffeners | Nucor Steel          | Heat No.<br>B8Q6554     | N/A                | * 114-45779<br>PO# 339825-222 | N/A        | Installed                        | No                            |
|   |                      |                         |                    |                               |            |                                  |                               |
|   |                      |                         |                    |                               |            |                                  |                               |
|   |                      |                         |                    |                               |            |                                  |                               |
|   |                      |                         |                    |                               |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Installed stiffeners on 6" pipe support HBC-295-H002 by welding.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks Work completed in accordance with Exelon design change ECR 14-00177.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Site weld administrator Date May 5, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period FEBRUARY 18, 2015 to MAY 6, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date MAY 6, 2015

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Address  
Work Order: R1268699, PREP FOR REACTOR REASSEMBLY  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 041 NUCLEAR BOILER Line No. 20-S201 N6-A FLANGE
5. (a) Applicable Construction Code ASME III Edition, 1968 Addenda, S'69 Code Case SEE REMARKS  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|--------------------------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| 20-S201<br>N6-A FLANGE,<br>(2) STUDS | NOVA                 | HEAT<br>NUMBER-<br>8992181<br>HEAT<br>TRACE-<br>M948 | N/A                | N/A                  | 2004       | INSTALLED                        | NO                            |
|                                      |                      |  |                    |                      |            |                                  |                               |
|                                      |                      |  |                    |                      |            |                                  |                               |
|                                      |                      |  |                    |                      |            |                                  |                               |
|                                      |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE (2) STUDS IN N6-A FLANGE
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. REPLACED (2) STUDS IN N6-A FLANGE. R1268699. CODE CASE 1442 AND 1441-1

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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17 20 15  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 8, 2014 to JUNE 22, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22 20 15

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1268699, PREP FOR REACTOR  
Address REASSEMBLY  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 041 NUCLEAR BOILER Line No. 20-S201, N6-B FLANGE
5. (a) Applicable Construction Code ASME III Edition, 1968 Addenda, S'69 Code Case SEE REMARKS  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|------------------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| 20-S201 N6-B FLANGE (1) STUD | NOVA                 | HEAT NUMBER- 8992181<br>HEAT TRACE- M948 | N/A                | N/A                  | 2004       | INSTALLED                        | NO                            |
|                              |                      |  |                    |                      |            |                                  |                               |
|                              |                      |  |                    |                      |            |                                  |                               |
|                              |                      |  |                    |                      |            |                                  |                               |
|                              |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE (1) STUD IN N6-B FLANGE
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. REPLACED (1) STUD IN N6-B FLANGE. R1268699. CODE CASE1442 AND 1441-1

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 NA

Certificate of Authorization No. NA Expiration Date NA

Signed [Signature] Date JUNE 17, 2015  
Owner or Owners 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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 8, 2014 to JUNE 22, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 22, 2015



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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order : R1268699, PREP FOR RX.  
Address REASSEMBLY  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name  
200 Exelon Way, Kennett Square, PA 19348 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System 041 NUCLEAR BOILER Line No. 20-S201 SP-DBA-210-E1
5. (a) Applicable Construction Code ASME III Edition, 1968 Addenda, S'69 Code Case 1635-1  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|--|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| NUT, HEAVY<br>HEX (12) (7/8"-9)            | NOVA                 | 3005189-<br>HEAT<br>NUMBER<br>6W44-<br>TRACE<br>NUMBER | N/A                | N/A                  | 2012       | INSTALLED                        | NO                            |
| STUD<br>CONTINUOUS<br>THREAD 7/8"-9<br>(6) | NOVA                 | 245182-<br>HEAT<br>NUMBER<br>3B69-<br>TRACE<br>CODE    | N/A                | N/A                  | 2009       | INSTALLED                        | NO                            |
|  |                      |  |                    |                      |            |                                  |                               |
|  |                      |  |                    |                      |            |                                  |                               |
|  |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE (6) STUDS AND (12 NUTS)
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ PRESSURE 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. REPLACED (6) STUDS AND (12) NUTS. PURCHASED ON WORK ORDER R1265847. INSTALLED ON WORK ORDER R1268699. THIS IS FOR THE 2" INSTRUMENT FLANGE SP-DBA-210-E1.  
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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 8, 2014 to JUNE 22, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date \_\_\_\_\_  
Name \_\_\_\_\_  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address \_\_\_\_\_
2. Plant Limerick Generating Station Unit U/2  
Name \_\_\_\_\_  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order R1265847, PREP FOR RX.  
Address REASSEMBLY  
Repair/Replacement Organization P.O. No., Job No. Etc. \_\_\_\_\_
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name \_\_\_\_\_ Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address \_\_\_\_\_
4. Identification of System 041 NUCLEAR BOILER Line No. 20-S201 SP-DCA-292-E001
5. (a) Applicable Construction Code ASME III Edition, 1968 Addenda, S'69 Code Case 1635-1  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-----------------------------|----------------------|--------------------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| NUT, HEAVY HEX (8) 7/8"-9   | NOVA                 | 3005189-HEAT NUMBER 6W44- HEAT TRACE | N/A                | N/A                  | 2012       | INSTALLED                        | NO                            |
| STUD, CONTINUOUS THREAD (4) | NOVA                 | 73018-HEAT NUMBER 5V25-TRACE CODE    | N/A                | N/A                  | 2011       | INSTALLED                        | NO                            |
|                             |                      |                                      |                    |                      |            |                                  |                               |
|                             |                      |                                      |                    |                      |            |                                  |                               |
|                             |                      |                                      |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE (4) STUDS AND (8) NUTS
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. REPLACED (8) NUTS AND (4) STUDS. PURCHASED ON R1265847.  
INSTALLED ON WORK ORDER R1268699. THIS IS FOR THE 1" INSTRUMENT FLANGE. SP-DCA-292-E001.  
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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period MARCH 9, 2015 to JUNE 22, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015

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

1. Owner Exelon Generation Company, LLC Date May 16, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0248099  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Nuclear Boiler Feedwater (System 041) Line No. DBB-203 Valve HV-041-209A
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer 1973 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|----------------------------------|----------------------|--------------------------------|--------------------|-------------------------|------------|---------------------------------|-------------------------------|
| HV-041-209A Pressure Seal Bonnet | Velan Valve          | S/N 19494 Heat No. S0948       | N/A                | * 118-01936 P.O. 061592 | 2014       | Installed                       | Yes                           |
| HV-041-209A Bonnet Pipe Plug     | Colonial Machine     | Heat No. 8860857 Heat Code AFY | N/A                | * 114-00618 P.O. 031885 | N/A        | Installed                       | No                            |
|                                  |                      |                                |                    |                         |            |                                 |                               |
|                                  |                      |                                |                    |                         |            |                                 |                               |
|                                  |                      |                                |                    |                         |            |                                 |                               |

\* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced 16" feedwater valve bonnet. Replaced and seal welded bonnet leakoff plug.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other \_\_\_\_\_ Pressure 1080 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed J. H. Kramer J.H. Kramer, site weld administrator Date May 16, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 9, 2014 to MAY 18, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 18, 2015

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

1. Owner Exelon Generation Company, LLC Date May 14, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0257301  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address

4. Identification of System Nuclear Boiler (System 041) Line No. APE-2MS HV-041-2F022A

5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003.  
(c) Applicable 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) |
|------------------------|----------------------|----------------------------------|--------------------|-----------------------------------|------------|---------------------------------|-------------------------------|
| (1) 2" MSIV Cover Stud | Atwood and Morill    | Heat No. 64406<br>Trace No. Q169 | N/A                | * 114-44883<br>P.O. 257796-348008 | N/A        | Installed                       | No                            |
| (1) 2" MSIV Cover Nut  | Nova Machine         | Heat No. T7208<br>Trace No. K9G  | N/A                | * 114-92665<br>P.O. LS-669359     | N/A        | Installed                       | No                            |
|                        |                      |                                  |                    |                                   |            |                                 |                               |
|                        |                      |                                  |                    |                                   |            |                                 |                               |
|                        |                      |                                  |                    |                                   |            |                                 |                               |

\* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam isolation valve cover stud and nut

8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed J.H. Kramer J.H. Kramer, site weld administrator Date May 14, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period APRIL 30, 2015 to MAY 15, 2015, 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 14396 A, N, T PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 15, 20 15



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

1. Owner Exelon Generation Company, LLC Date May 13, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. R1194509 & R1123412  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Nuclear Boiler (System 041) Line No. APE-2MS HV-041-2F022A
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------------------|-----------------------|-------------------------|--------------------|----------------------|------------|---------------------------------|-------------------------------|
| MSIV Pneumatic Control Manifold | Automatic Valve Corp. | D52728                  | N/A                | * 114-72935          | N/A        | Installed                       | No                            |
| MSIV Pneumatic Control Manifold | Automatic Valve Corp. | B68367                  | N/A                | * 114-72935          | N/A        | Removed                         | No                            |
|                                 |                       |                         |                    |                      |            |                                 |                               |
|                                 |                       |                         |                    |                      |            |                                 |                               |
|                                 |                       |                         |                    |                      |            |                                 |                               |

\* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam isolation valve pneumatic control manifold with refurbished manifold.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other \_\_\_\_\_ Pressure 99 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Pneumatic control manifold S/N D52728 was previously installed at HV-041-1F022D. It was removed in 1R14 refuel outage  
Applicable Manufacturer's Data Reports to be attached

under work order R1095887 and refurbished under work order R1123412.

MSIV HV-041-2F022A was constructed to ASME III. The pneumatic control manifold and air operator was supplied with the MSIV.

but not constructed or certified to ASME III.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed J.H. Kramer J.H. Kramer, site weld administrator Date May 13, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 8, 2014 to MAY 13, 2015, 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 14396A, N, I PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date MAY 13, 2015

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

1. Owner Exelon Generation Company, LLC Date May 13, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. R1201949 & R1140664  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address

4. Identification of System Nuclear Boiler (System 041) Line No. APE-2MS HV-041-2F022B

5. (a) Applicable Construction Code ASME III 19 68 Edition, Summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------------------|-----------------------|-------------------------|--------------------|----------------------|------------|---------------------------------|-------------------------------|
| MSIV Pneumatic Control Manifold | Automatic Valve Corp. | 52897                   | N/A                | * 114-72935          | N/A        | Installed                       | No                            |
| MSIV Pneumatic Control Manifold | Automatic Valve Corp. | 52898                   | N/A                | * 114-72935          | N/A        | Removed                         | No                            |
|                                 |                       |                         |                    |                      |            |                                 |                               |
|                                 |                       |                         |                    |                      |            |                                 |                               |
|                                 |                       |                         |                    |                      |            |                                 |                               |

\* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam isolation valve pneumatic control manifold with refurbished manifold.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other \_\_\_\_\_ Pressure 99 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Pneumatic control manifold S/N 52897 was previously installed at HV-041-2F028D. It was removed in 2R12 refuel outage  
Applicable Manufacturer's Data Reports to be attached

under work order R1133335 and refurbished under work order R1140664.

MSIV HV-041-2F022B was constructed to ASME III. The pneumatic control manifold and air operator was supplied with the MSIV,

but not constructed or certified to ASME III.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed J. H. Kramer J.H. Kramer, site weld administrator Date May 13, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 3, 2014 to MAY 13, 2015, 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 14396 A, N, I PA3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 13, 2015

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

1. Owner Exelon Generation Company, LLC Date May 13, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. R1201765 & R1073651  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address

4. Identification of System Nuclear Boiler (System 041) Line No. APE-2MS HV-041-2F022C

5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------------------|-----------------------|-------------------------|--------------------|----------------------|------------|---------------------------------|-------------------------------|
| MSIV Pneumatic Control Manifold | Automatic Valve Corp. | B67223                  | N/A                | * 114-72935          | N/A        | Installed                       | No                            |
| MSIV Pneumatic Control Manifold | Automatic Valve Corp. | B67221                  | N/A                | * 114-72935          | N/A        | Removed                         | No                            |
|                                 |                       |                         |                    |                      |            |                                 |                               |
|                                 |                       |                         |                    |                      |            |                                 |                               |
|                                 |                       |                         |                    |                      |            |                                 |                               |

\* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam isolation valve pneumatic control manifold with refurbished manifold.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other \_\_\_\_\_ Pressure 99 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Pneumatic control manifold S/N B67223 was previously installed at HV-041-2F022A. It was removed in 2R13 refuel outage  
Applicable Manufacturer's Data Reports to be attached

under work order R1065510 and refurbished under work order R1073651.

MSIV HV-041-2F022C was constructed to ASME III. The pneumatic control manifold and air operator was supplied with the MSIV.

but not constructed or certified to ASME III.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed J.H. Kramer J.H. Kramer, site weld administrator Date May 13, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 3, 2014 to MAY 13, 2015, 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 14396 A, N, I PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date MAY 13, 2015

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

1. Owner Exelon Generation Company, LLC Date May 13, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. R1196666 & R1139385  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Nuclear Boiler (System 041) Line No. APE-2MS HV-041-2F022D
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------------------|-----------------------|-------------------------|--------------------|----------------------|------------|---------------------------------|-------------------------------|
| MSIV Pneumatic Control Manifold | Automatic Valve Corp. | B68366                  | N/A                | * 114-72935          | N/A        | Installed                       | No                            |
| MSIV Pneumatic Control Manifold | Automatic Valve Corp. | B67222                  | N/A                | * 114-72935          | N/A        | Removed                         | No                            |
|                                 |                       |                         |                    |                      |            |                                 |                               |
|                                 |                       |                         |                    |                      |            |                                 |                               |
|                                 |                       |                         |                    |                      |            |                                 |                               |

\* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam isolation valve pneumatic control manifold with refurbished manifold.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other \_\_\_\_\_ Pressure 99 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Pneumatic control manifold S/N B68366 was previously installed at HV-041-2F028B. It was removed in 2R14 refuel outage  
Applicable Manufacturer's Data Reports to be attached

under work order R1130351 and refurbished under work order R1139385.

MSIV HV-041-2F022D was constructed to ASME III. The pneumatic control manifold and air operator was supplied with the MSIV.

but not constructed or certified to ASME III.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed J.H. Kramer J.H. Kramer, site weld administrator Date May 13, 2015  
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 Pennsylvania and employed by HSB Global Standards of

Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 8, 2014 to MAY 13, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date MAY 13, 2015



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

1. Owner Exelon Generation Company, LLC Date July 22, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0251177  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Nuclear Boiler Main Steam (System 041) Line No. APE-2MS MSRV PSV-041-2F013B
5. (a) Applicable Construction Code ASME III 19 68 Edition, summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1 & N-508-3

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) |
|--|----------------------|-------------------------|--------------------|---------------------------------|------------|---------------------------------|-------------------------------|
| Main Steam Relief Valve PSV-041-2F013B | Target Rock          | Main Body 158 Pilot 006 | N/A                | * 114-80950 PO# 060164 & 060166 | N/A        | Installed                       | Yes                           |
| Main Steam Relief Valve PSV-041-2F013B | Target Rock          | Main Body 174 Pilot 027 | N/A                | * 114-80950                     | N/A        | Removed                         | Yes                           |
| MSRV Main Disc, Part No. 200848-1      | Target Rock          | 4872                    | N/A                | * 114-76023 PO# 053975          | 2012       | Installed                       | Yes                           |
|  |                      |                         |                    |                                 |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced main steam relief valve S/N 174 and pilot S/N 027 with previously installed and refurbished valve S/N 158 and pilot S/N 006.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt ☒  
Other 1035 PSI Test Temp. 535 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

Relief valve repair and replacement completed by NWS Technologies "VR" stamp No. 632 and "NP" stamp No. 81.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date July 22, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period AUGUST 6, 2014 to AUGUST 6, 2014, 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 14396 A. N. I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUGUST 6, 2014

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

1. Owner Exelon Generation Company, LLC Date August 4, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0247946  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Nuclear Boiler Main Steam (System 041) Line No. APE-2MS MSRV PSV-041-2F013D
5. (a) Applicable Construction Code ASME III 19 68 Edition, summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1 & N-508-3
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) |
|--|----------------------|----------------------------|--------------------|------------------------------------|------------|---------------------------------|-------------------------------|
| Main Steam Relief Valve PSV-041-2F013D | Target Rock          | Main Body 190<br>Pilot 017 | N/A                | * 114-80949<br>PO# 060164 & 060166 | N/A        | Installed                       | Yes                           |
| Main Steam Relief Valve PSV-041-2F013D | Target Rock          | Main Body 189<br>Pilot 031 | N/A                | * 114-80949                        | N/A        | Removed                         | Yes                           |
|  |                      |                            |                    |                                    |            |                                 |                               |
|  |                      |                            |                    |                                    |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced main steam relief valve S/N 189 and pilot S/N 031 with previously installed and refurbished valve S/N 190 and pilot S/N 017.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt ☒  
Other 1035 PSI Test Temp. 535 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

Relief valve repair and replacement completed by NWS Technologies "VR" stamp No. 632 and "NR" stamp No. 81.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date August 4, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

In this Owner's Report during the period JANUARY 17, 2014 to AUGUST 6, 2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J. H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 6, 2014

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

1. Owner Exelon Generation Company, LLC Date July 6, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. R1260776  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Nuclear Boiler Main Steam (System 041) Line No. APE-2MS MSRV PSV-041-2F013E
5. (a) Applicable Construction Code ASME III 19 68 Edition, summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1 & N-508-3

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) |
|--|----------------------------|----------------------------|--------------------|--------------------------------|------------|---------------------------------|-------------------------------|
| Main Steam Relief Valve PSV-041-2F013E | Target Rock                | Main Body 184<br>Pilot 019 | N/A                | * 114-80949<br>PO# 073709      | N/A        | Installed                       | Yes                           |
| Main Steam Relief Valve PSV-041-2F013E | Target Rock                | Main Body 185<br>Pilot 004 | N/A                | * 114-80949                    | N/A        | Removed                         | Yes                           |
| (1) 1" MSRV Outlet Flange Stud         | Curtis-Wright Nova Machine | Trace Code 8J55            | N/A                | * 114-76528<br>PO# 059653      | N/A        | Installed                       | No                            |
| (1) 1" MSRV Outlet Flange Stud         | Curtis-Wright Nova Machine | Trace Code 7D03            | N/A                | * 114-76530<br>PO# 052523      | N/A        | Installed                       | No                            |
| (4) 1" MSRV Outlet Flange Nuts         | Curtis-Wright Nova Machine | Trace Code 9S91            | N/A                | * 116-12221<br>PO# 180864-4078 | N/A        | Installed                       | No                            |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced main steam relief valve S/N 185 and pilot S/N 004 with previously installed and refurbished valve S/N 184 and pilot S/N 019.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other 1032 PSI Test Temp. 424 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

Relief valve repair and replacement completed by NWS Technologies "VR" stamp No. 632 and "NR" stamp No. 81.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date July 6, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 10, 2014 to JULY 7, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JULY 7, 2015

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

1. Owner Exelon Generation Company, LLC Date August 4, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0250866  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Nuclear Boiler Main Steam (System 041) Line No. APE-2MS MSRV PSV-041-2F013F
5. (a) Applicable Construction Code ASME III 1968 Edition, summer 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1 & N-508-3

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) |
|--|----------------------|-------------------------|--------------------|---------------------------------|------------|---------------------------------|-------------------------------|
| Main Steam Relief Valve PSV-041-2F013F | Target Rock          | Main Body 154 Pilot 038 | N/A                | * 114-80950 PO# 060164 & 060166 | N/A        | Installed                       | Yes                           |
| Main Steam Relief Valve PSV-041-2F013F | Target Rock          | Main Body 178 Pilot 010 | N/A                | * 114-80950                     | N/A        | Removed                         | Yes                           |
| MSRV Main Disc, Part No. 200848-1      | Target Rock          | 4797                    | N/A                | * 114-76023 PO# 055079          | 2013       | Installed                       | Yes                           |
|  |                      |                         |                    |                                 |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced main steam relief valve S/N 178 and pilot S/N 010 with previously installed and refurbished valve S/N 154 and pilot S/N 038.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt ☒  
Other 1035 PSI Test Temp. 535 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

Relief valve repair and replacement completed by NWS Technologies "VR" stamp No. 632 and "NR" stamp No. 81.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date August 4, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period JANUARY 17, 2014 to AUGUST 6, 2014, 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 14396 A.N.I. PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 6, 2014



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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 01 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-06-27
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, W'75 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A8785                                    | N/A                | N/A                  | 1989       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74 - HEATCODE<br>8191534 - HEAT NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 06-27, WORK ORDER R1265569  
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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 23, 2015 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order : R1265569 , ACT 10, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-10-31
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, W'75 Code Case N207 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A9123  | N/A                | N/A                  | 1992       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA ATTACHED. CRD 10-31, WORK ORDER R1265569.

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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date June 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Saratoga Road, Pottstown, PA 19464 Work Order : R1265569, ACT 11, CRD ECHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-10-39
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, W'1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A9536  | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 10-39, WORK ORDER R1265569

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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

Date

JUNE 17, 2015

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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT

have inspected the components described in this Owner's Report during the period MARCH 9, 2015 to JUNE 22, 2015, 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

14396 ANI

PA3045

National Board, State, Province, and Endorsements

Date

JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 12, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299- 14-23
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, WINTER 1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|---------------------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | SE00120                               | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-HEAT CODE<br>8191534-HEAT NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 14-23, WORK ORDER R1265569.

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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015



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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 13, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-14-31
5. (a) Applicable Construction Code ASME III Edition, 1971 Addenda, S'73 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|---------------------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A8233                                 | N/A                | N/A                  | 1987       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74 HEAT CODE<br>8191534-HEAT NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 14-31. WORK ORDER R1265569.  
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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 14, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-18-31
5. (a) Applicable Construction Code ASME III Edition, 1971 Addenda, S'73 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A8243  | N/A                | N/A                  | 1987       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 18-31 , WORK ORDER R1265569

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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 20 15

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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 15 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-22-43
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, WINTER 1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | SE00106  | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 22-43, WORK ORDER R1265569.  
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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 16, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-22-47
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, WINTER 1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | SE00132  | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 22-47, WORK ORDER R1265569.  
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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

*Kevin J. Wang*  
Owner or Owner's Designee, Title

Date

JUNE 17, 2015

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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT

have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*[Signature]*  
Inspector's Signature

Commissions

14396 ANI

PA3045

National Board, State, Province, and Endorsements

Date

JUNE 22, 2015



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

1. Owner Exelon Generation Co., LLC Date MAY 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 17, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-26-03
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, WINTER 1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|---------------------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | SE00122                               | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-HEAT CODE<br>8191534-HEAT NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 26-03. WORK ORDER R1265569

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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

Owner or Owner's Designee, Title

Date

JUNE 17, 2015

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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT

have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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 14396 ANI

PA3045

National Board, State, Province, and Endorsements

Date

JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date June 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 18 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-26-23
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, WINTER 1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|---------------------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | SE00110                               | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-HEAT CODE<br>8191534-HEAT NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 26-23, WORK ORDER R1265569.

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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

Owner or Owner's Designee, Title

Date

JUNE 17, 2015

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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT

have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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

14396 ANI

PA3045

National Board, State, Province, and Endorsements

Date

JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order : R1265569, ACT 19, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-30-39
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, WINTER 1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | SE00125  | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 30-39, WORK ORDER R1265569

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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

Date

JUNE 17 2015

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 Pennsylvania and employed by HSB GLOBAL STANDARDS

of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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

14396 ANI

PA3045

National Board, State, Province, and Endorsements

Date

JUNE 22 2015

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order R1265569, ACT 20 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-34-31
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, WINTER 1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | SE00121  | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 34-31. WORK ORDER R1265569.

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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015



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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 21 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-38-03
5. (a) Applicable Construction Code ASME III Edition, 1971 Addenda, S73 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|---------------------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A8280                                 | N/A                | N/A                  | 1987       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-HEAT CODE<br>8191534-HEAT NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 38-03, WORK ORDER R1265569.  
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 ANA  
Certificate of Authorization No. ANA Expiration Date NA  
Signed Kenneth Chang Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 23, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 22 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-42-03
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, W'75 Code Case N207 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A9011  | N/A                | N/A                  | 1993       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 42-03. WORK ORDER R1265569

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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 23, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 20 15

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 23 CED EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-42-39
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, WINTER 1975 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E                  | SE00123  | N/A                | N/A                  | 2014       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 42-39, WORK ORDER R1265569

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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

Date

JUNE 17, 2015

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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT

have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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

14396 ANI

PA3045

National Board, State, Province, and Endorsements

Date

JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order : R1265569, ACT 24, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-46-19
5. (a) Applicable Construction Code ASME III Edition, 1971 Addenda, S'73 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|---------------------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A6975                                 | N/A                | N/A                  | 1984       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-HEAT CODE<br>8191534-HEAT NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 46-19, WORK ORDER R1265569

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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

Owner or Owner's Designee, Title

Date

JUNE 17, 2015

**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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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

14396 ANI

PA3045

National Board, State, Province, and Endorsements

Date

JUNE 22, 2015



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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 25 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-46-23
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, W'75 Code Case N207 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A9024  | N/A                | N/A                  | 1992       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 46-23, WORK ORDER R1265569.  
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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 26 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-50-19
5. (a) Applicable Construction Code ASME III Edition, 1974 Addenda, W'75 Code Case N207 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|---------------------------------------|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | A8949                                 | N/A                | N/A                  | 1992       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-HEAT CODE<br>8191534-HEAT NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |
|                   |                      |                                       |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 50-19, WORK ORDER R1265669

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 NA

Certificate of Authorization No. NA Expiration Date NA

Signed [Signature] Date JUNE 17, 2015  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 22, 2015

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 27, CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-50-31
5. (a) Applicable Construction Code ASME III Edition, 1971 Addenda, S'73 Code Case 1361-2  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|--|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| CONTROL ROD DRIVE | G.E.                 | 8166   | N/A                | N/A                  | 1986       | INSTALLED                        | YES                           |
| (8) CAP SCREWS    | NOVA                 | 9R74-<br>HEAT CODE<br>8191534-<br>HEAT<br>NUMBER | N/A                | N/A                  | 2014       | INSTALLED                        | NO                            |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |
|                   |                      |  |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE ONE CRD AND 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 50-31, WORK ORDER R1265569  
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 NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed [Signature] Date JUNE 17 20 15  
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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 23, 2015, 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 14396 ANI PA3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 22 20 15

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

1. Owner Exelon Generation Co., LLC Date JUNE 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit U/2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order: R1265569, ACT 73 CRD EXCHANGE  
Address 2R13  
Repair/Replacement Organization P.O. No., Job No. Etc.
3. Work Performed by Exelon Generation Co., LLC Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
200 Exelon Way, Kennett Square, PA 19348 Expiration Date N/A  
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 20-S299-50-43
5. (a) Applicable Construction Code N/A Edition, N/A Addenda, N/A Code Case N/A  
(b) Applicable Edition of Section XI Used for Repair / Replacement Activity: 2001 Edition, 2003 Addenda  
(c) Applicable Section XI Code Cases: 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) |
|-------------------|----------------------|---|--------------------|----------------------|------------|----------------------------------|-------------------------------|
| (8) CAP SCREWS    | NOVA                 | 8W28- HEAT CODE<br>8191534- HEAT NUMBER | N/A                | N/A                  | 2013       | INSTALLED                        | NO                            |
|                   |                      |   |                    |                      |            |                                  |                               |
|                   |                      |   |                    |                      |            |                                  |                               |
|                   |                      |   |                    |                      |            |                                  |                               |
|                   |                      |   |                    |                      |            |                                  |                               |

7. Description of Work: REPLACE 8 CAP SCREWS

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1050 psi Test Temp. 182 °F.

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 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.

(1)  
FORM NIS-2 (Back)

9. Remarks MANUFACTURER DATA SHEET ATTACHED. CRD 50-43, R1265569.

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

NA

Certificate of Authorization No.

NA

Expiration Date

NA

Signed

Date

June 17, 2015

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 Pennsylvania and employed by HSB GLOBAL STANDARDS of Hartford, CT

have inspected the components described in this Owner's Report during the period OCTOBER 7, 2014 to JUNE 22, 2015, 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

14396 ANI

PA3045

National Board, State, Province, and Endorsements

Date

JUNE 22, 2015



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

1. Owner Exelon Generation Company, LLC Date September 8, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order # R1114173  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. None  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date None  
Address
4. Identification of System Stand By Liquid Control (System 048) Line No. ECB-214 Valve XV-048-2F004A
5. (a) Applicable Construction Code ASME III 19 77 Edition, Summer 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|-------------------------------|-------------------------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------------------|
| Explosive Valve Trigger Body  | Mirion Technologies (Conax Nuclear) | 8469                    | 8469               | * 114-77023 PO# 055315 | 2012       | Installed                       | Yes                           |
| Explosive Valve Inlet Fitting | Mirion Technologies (Conax Nuclear) | 8471                    | 8471               | * 114-77023 PO# 055315 | 2012       | Installed                       | Yes                           |
| Explosive Valve Trigger Body  | Mirion Technologies (Conax Nuclear) | 7981                    | 7981               | N/A                    | N/A        | Removed                         | Yes                           |
| Explosive Valve Inlet Fitting | Mirion Technologies (Conax Nuclear) | 7983                    | 7983               | N/A                    | N/A        | Removed                         | Yes                           |

\* Traceability per Exelon part code number.

7. Description of Work Replaced explosive valve trigger body and inlet fitting.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure ☒ Exempt  
Other \_\_\_\_\_ Pressure 1205 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, site weld administrator Date September 8, 2014  
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 Pennsylvania and employed by HSB Global Standards of  
Hartford, Connecticut have inspected the components described

In this Owner's Report during the period SEPTEMBER 4, 2014 to OCTOBER 2, 2014, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 2, 2014

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

1. Owner Exelon Generation Company, LLC Date May 13, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order # R1129220  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. None  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date None  
Address
4. Identification of System Stand By Liquid Control (System 048) Line No. ECB-214 Valve XV-048-2F004C
5. (a) Applicable Construction Code ASME III 19 77 Edition, Summer 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|-------------------------------|-------------------------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------------------|
| Explosive Valve Trigger Body  | Mirion Technologies (Conax Nuclear) | 8758                    | 8758               | * 114-77023 PO# 071596 | 2015       | Installed                       | Yes                           |
| Explosive Valve Inlet Fitting | Mirion Technologies (Conax Nuclear) | 8760                    | 8760               | * 114-77023 PO# 071596 | 2015       | Installed                       | Yes                           |
| Explosive Valve Trigger Body  | Mirion Technologies (Conax Nuclear) | 8248                    | 8248               | N/A                    | N/A        | Removed                         | Yes                           |
| Explosive Valve Inlet Fitting | Mirion Technologies (Conax Nuclear) | 8250                    | 8250               | N/A                    | N/A        | Removed                         | Yes                           |

\* Traceability per Exelon part code number.

7. Description of Work Replaced explosive valve trigger body and inlet fitting.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other \_\_\_\_\_ Pressure 1210 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, site weld administrator Date May 13, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 9, 2014 to MAY 13, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date MAY 13, 2015

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

1. Owner Exelon Generation Company, LLC Date May 15, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. R1270605  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address

4. Identification of System: RHR Service Water (System 012 & 051) Line No. GBC-204 Valve HV-051-2F014B

5. (a) Applicable Construction Code ASME III 1971 Edition, Summer 1971 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|----------------------------|----------------------|---------------------------------------|--------------------|-------------------------------|------------|---------------------------------|-------------------------------|
| 20" Gate Valve Disc        | Flowserve            | GDMN 10X886-1                         | N/A                | * 114-26275<br>PO# 038186     | 2010       | Installed                       | Yes                           |
| 20" Gate Valve Disc Guides | Flowserve            | Heat No. 181P63070<br>Trace No. 34132 | N/A                | * 114-26279<br>PO# 257797-750 | N/A        | Installed                       | No                            |
|                            |                      |                                       |                    |                               |            |                                 |                               |
|                            |                      |                                       |                    |                               |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced disc and disc guides in 20" RHRSW gate valve

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon purchase order.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date May 15, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 1, 2014 to MAY 15, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 15, 2015

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

1. Owner Exelon Generation Company, LLC Date June 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0257154  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address

4. Identification of System: Residual heat Removal - LPCI (System 051) Line No. DLA-212 Valve HV-051-2F041D

5. (a) Applicable Construction Code ASME III 1974 Edition, Summer 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|----------------------|----------------------|----------------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| 12" Check Valve Disc | Weir Valve           | Heat No. 532812<br>S/N CN20977-2 | N/A                | * 114-48551<br>PO# 049668 | 2010       | Installed                       | Yes                           |
|                      |                      |                                  |                    |                           |            |                                 |                               |
|                      |                      |                                  |                    |                           |            |                                 |                               |
|                      |                      |                                  |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced disc in 12" LPCI check valve

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work purchase order.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date June 2, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period APRIL 27, 2015 to JUNE 12, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 12, 2015



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

1. Owner Exelon Generation Company, LLC Date May 15, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0234158 & C0257230  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address

4. Identification of System: Residual heat Removal (System 051) Line No. DCA-204 Valve HV-051-2F050A

5. (a) Applicable Construction Code ASME III 1974 Edition, Summer 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------------|----------------------|--------------------------------|--------------------|-------------------------------|------------|---------------------------------|-------------------------------|
| 12" Check Valve Disc      | Weir Valve           | Heat No. 57610<br>S/N CN2921-1 | N/A                | * 114-48551<br>PO# 035615     | 2010       | Installed                       | Yes                           |
| 12" Check Valve Seat Ring | Weir Valve           | Heat No. 87R7<br>S/N 1         | N/A                | * 114-54675<br>PO# 257796-300 | 2007       | Installed                       | Yes                           |
|                           |                      |                                |                    |                               |            |                                 |                               |
|                           |                      |                                |                    |                               |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced disc and seat ring in 12" RHR check valve
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work purchase order.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date May 15, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period APRIL 23, 2015 to MAY 15, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 15, 2015

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

1. Owner Exelon Generation Company, LLC Date June 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. R1260782  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Residual heat Removal (System 051) Line No. DCA-204 Valve HV-051-2F050B
5. (a) Applicable Construction Code ASME III 1974 Edition, Summer 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|----------------------|----------------------|----------------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| 12" Check Valve Disc | Weir Valve           | Heat No. 562612<br>S/N CN21587-1 | N/A                | * 114-48551<br>PO# 049668 | 2010       | Installed                       | Yes                           |
|                      |                      |                                  |                    |                           |            |                                 |                               |
|                      |                      |                                  |                    |                           |            |                                 |                               |
|                      |                      |                                  |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced disc in 12" RHR shutdown cooling check valve
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work purchase order.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date June 2, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period APRIL 27, 2015 to JUNE 12, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J. H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 12, 2015

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

1. Owner Exelon Generation Company, LLC Date June 29, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0253199 & C0253200  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Residual Heat Removal (System 051) Line No. GBB-210-01 Valve 051-2204
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| 3" Ball Valve 051-2204 | BNL Industries       | A140713-2-6             | N/A                | * 118-03374<br>PO# 069294 | 2014       | Installed                       | Yes                           |
| 3" Weld-O-Let          | WFI Nuclear          | Heat Code 7109ANR       | N/A                | * 118-04008<br>PO# 073559 | N/A        | Installed                       | No                            |
| (1) Foot 3" NPS Pipe   | TMK IPSCO            | Heat No. 474745         | N/A                | * 114-90001<br>PO# 073345 | N/A        | Installed                       | No                            |
|                        |                      |                         |                    |                           |            |                                 |                               |
|                        |                      |                         |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Installed 3" Fukushima flex piping connection to comply with NRC order EA-12-049.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 240 PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached
- Ball valve serial number A140713-2-6 was constructed to ASME III, 1971 edition with addenda through summer 1972.
- Work completed in accordance with Exelon design change ECR 14-00017.
- Pre-fabrication completed on work order C0253199. Field installation completed on work order C0253200.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date June 29, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period FEBRUARY 24, 2015 to JULY 1, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JULY 1, 2015

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

1. Owner Exelon Generation Company, LLC Date June 30, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0255061 & C0255065  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: RHR Service Water (System 012 & 051) Line No. HBC-283-01 Valve 051-2F124B
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|--------------------------|----------------------|-------------------------|--------------------|-------------------------------|------------|---------------------------------|-------------------------------|
| 6" Gate Valve 051-2F124B | CRANE Nuclear        | E5001                   | N/A                | * 118-03299<br>PO# 068626     | 2014       | Installed                       | Yes                           |
| 6" Weld-O-Let            | WFI Nuclear          | Heat Code 6206ANF1      | N/A                | * 118-03553<br>PO# 070923     | N/A        | Installed                       | No                            |
| (1) Foot 6" NPS Pipe     | United States Steel  | Heat No. U21214         | N/A                | * 114-90062<br>PO# 339825-354 | N/A        | Installed                       | No                            |
|                          |                      |                         |                    |                               |            |                                 |                               |
|                          |                      |                         |                    |                               |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Installed 6" Fukushima flex piping connection to comply with NRC order EA-12-049.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 80 PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached
- Gate valve serial number E5001 was constructed to ASME III, 1971 edition with addenda through summer 1973.
- Work completed in accordance with Exelon design change ECR 14-00014.
- Pre-fabrication completed on work order C0255061. Field installation completed on work order C0255065.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date June 30, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period JANUARY 23, 2015 to JULY 1, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A. N. I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JULY 1, 2015



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

1. Owner Exelon Generation Company, LLC Date July 2, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0255061 & C0255069  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Residual Heat Removal (System 051) Line No. GBB-218 & 230 Valve 051-2F126B
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|-----------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| 6" Gate Valve<br>051-2F126B | CRANE Nuclear        | E4992                   | N/A                | * 118-03298<br>PO# 068626 | 2014       | Installed                       | Yes                           |
| 4" Weld-O-Let               | WFI Nuclear          | Heat Code<br>7109ANR1   | N/A                | * 118-04144<br>PO# 074222 | N/A        | Installed                       | No                            |
| (1) 6" x 4" NPS Reducer     | Taylor Forge         | Heat Code<br>MKWW-1     | N/A                | * 114-92108<br>PO# 073799 | N/A        | Installed                       | No                            |
| (1) Foot 6" NPS Pipe        | United States Steel  | Heat No.<br>U23032      | N/A                | * 114-90003<br>PO# 040109 | N/A        | Installed                       | No                            |
|                             |                      |                         |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Installed 6" Fukushima flex piping connection to comply with NRC order EA-12-049.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 230 PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

Gate valve serial number E4992 was constructed to ASME III, 1971 edition with addenda through summer 1973.

Work completed in accordance with Exelon design change ECR 15-00073.

Pre-fabrication completed on work order C0255061. Field installation completed on work order C0255069.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date July 2, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period April 6, 2015 to July 6, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date July 6, 2015

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

1. Owner Exelon Generation Company, LLC Date July 7, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0255061 & C0255069  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Residual Heat Removal (System 051) Line No. GBB- 230-H001
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1971 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|-----------------------------|----------------------|-------------------------|--------------------|---------------------------------|------------|---------------------------------|-------------------------------|
| Spring Can Variable Support | Bergen Power         | Part No. 3400-B-8-R/5   | N/A                | * 118-04237<br>PO# 075450       | N/A        | Installed                       | No                            |
| 6" Pipe Clamp               | Bergen Power         | Part No. 6100-6         | N/A                | * 114-91374<br>PO# 075069       | N/A        | Installed                       | No                            |
| Welded beam Attachment      | Bergen Power         | Part No. 1047-5/8       | N/A                | * 114-90907<br>PO# LS386535-319 | N/A        | Installed                       | No                            |
| Weldless Eye Nut            | Bergen Power         | Part No. 5130-5/8       | N/A                | * 114-93244<br>PO# 075281       | N/A        | Installed                       | No                            |

\* Traceability per Exelon stock code number.

7. Description of work: Installed 6" Fukushima flex piping support to comply with NRC order EA-12-049.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other ☐ N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

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

1. Owner Exelon Generation Company, LLC Date July 7, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0255061 & C0255069  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address

4. Identification of System: Residual Heat Removal (System 051) Line No. GBB- 230-H001

5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, 1971 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------------|----------------------------|-------------------------|--------------------|--------------------------------|------------|---------------------------------|-------------------------------|
| 5/8" Threaded Rod         | Curtis-Wright Nova Machine | Trace Code 02H6         | N/A                | * 114-14881<br>PO# 069672      | N/A        | Installed                       | No                            |
| (2) 5/8" Nuts             | Curtis-Wright Nova Machine | Trace Code 0F63         | N/A                | * 116-12090<br>PO# 180864-2281 | N/A        | Installed                       | No                            |
| 1" Plate Steel            | SSAB                       | Heat No. M4G069         | N/A                | * 114-80536<br>PO# 072850      | N/A        | Installed                       | No                            |
| (3) Feet W4x13 Steel Beam | Nucor Steel - Berkeley     | Heat No. 2507199        | N/A                | * 114-93009<br>PO# 001897-544  | N/A        | Installed                       | No                            |
|                           |                            |                         |                    |                                |            |                                 |                               |
|                           |                            |                         |                    |                                |            |                                 |                               |
|                           |                            |                         |                    |                                |            |                                 |                               |
|                           |                            |                         |                    |                                |            |                                 |                               |
|                           |                            |                         |                    |                                |            |                                 |                               |

\* Traceability per Exelon stock code number.

FORM NIS-2 (BACK)

9. Remarks : Work completed in accordance with Exelon design change ECR 15-00073

Applicable Manufacturer's Data Reports to be attached

Pre-fabrication completed on work order C0255061. Field installation completed on work order C0255069.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date July 7, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period April 7, 2015 to July 8, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J. H. Kramer Commissions 14396 A. N. I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date July 8, 2015

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

1. Owner Exelon Generation Company, LLC Date May 13, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. R1264292-62  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Core Spray (System 052) Line No. HBB-220 Pump Strainer 2D1F214
5. (a) Applicable Construction Code ASME III 19 86 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|--------------------------|------------------------------|------------------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| (1) Strainer Flange Stud | Curtis Wright (Nova Machine) | Heat No. 738762<br>Trace Code 9R70 | N/A                | * 118-02985<br>PO# 066351 | N/A        | Installed                       | No                            |
| (1) Strainer Flange Nut  | Curtis Wright (Nova Machine) | Heat No. G20597<br>Trace Code 9S08 | N/A                | * 118-02986<br>PO# 066351 | N/A        | Installed                       | No                            |
|                          |                              |                                    |                    |                           |            |                                 |                               |
|                          |                              |                                    |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced flange stud and nut on pump suction strainer flange.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other ☐ N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks: None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date May 13, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 10, 2014 to MAY 15, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 15, 2015

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

1. Owner Exelon Generation Company, LLC Date July 30, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0250941  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Core Spray Safeguard Fill (System 052) Line No. SP-HBB-270-E03 Valve 052-2051A
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|--|------------------------|---------------------------------|--------------------|----------------------------------|------------|---------------------------------|-------------------------------|
| Check Valve 052-2051A                        | Flowserve              | 67 AZT                          | N/A                | * 114-93539<br>PO# 257797-481242 | 2004       | Installed                       | Yes                           |
| Check Valve 052-2051A                        | Rockwell               | BK 096                          | N/A                | N/A                              | 1983       | Removed                         | Yes                           |
| SP-HBB-270-E03 piece # 35<br>1-1/2" NPS pipe | Michigan Seamless Tube | Heat No.<br>00A106154           | N/A                | * 114-90044<br>PO# 054023        | N/A        | Installed                       | No                            |
| Check Valve S/N 67 AZT<br>Disc               | Flowserve              | Trace Code<br>16872-7<br>S/N 31 | N/A                | * 114-85551<br>PO# 053397        | 2012       | Installed                       | Yes                           |
|  |                        |                                 |                    |                                  |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 1-1/2" check valve and adjacent pipe. Replaced disc in check valve S/N 67 AZT.
8. Tests conducted: ☒ Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt  
Other 75 PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300



FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

Check valve S/N 67 AZT and disc were constructed to ASME III, 1974 edition with addenda through summer 1975.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date July 30, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period JUNE 4, 2014 to AUGUST 5, 2014, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUGUST 5, 2014

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

1. Owner Exelon Generation Company, LLC Date January 12, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0236631  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Core Spray (System 052) Line No. SP-HBB-270-E002 1-1/2" Valve 052-2051B
5. (a) Applicable Construction Code ASME III 19 77 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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 052-2016B Disc | Flowserve            | Trace code 16872-7 S/N 29 | N/A                | * 114-85551 PO# 053397 | 2012       | Installed                       | Yes                           |
|                      |                      |                           |                    |                        |            |                                 |                               |
|                      |                      |                           |                    |                        |            |                                 |                               |
|                      |                      |                           |                    |                        |            |                                 |                               |

\* Traceability per Exelon stock code number and purchase order.

7. Description of work: Replaced 1-1/2" check valve disc
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other ☐ N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date January 12, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period July 18, 2013 to JANUARY 13, 2015 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JANUARY 13, 2015

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

1. Owner Exelon Generation Company, LLC Date September 25, 2013  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. R0976111  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Core Spray (System 052) Line No. SP-HBB-220-03E PSV-052-2F032C
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|--|---------------------------|-------------------------------------|--------------------|--------------------------------|------------|---------------------------------|-------------------------------|
| PSV-052-2F032C                             | Anderson Greenwood Crosby | N95709-00-0013                      | N/A                | * 114-18171<br>PO# 039355      | 2011       | Installed                       | Yes                           |
| PSV-052-2F032C                             | Anderson Greenwood Crosby | N95709-00-0004                      | N/A                | N/A                            | N/A        | Removed                         | Yes                           |
| SP-HBB-220-03E piece # 27<br>2" NPS pipe   | Michigan Seamless Tube    | Heat No.<br>00A092767               | N/A                | * 114-90045<br>PO# 009825-4408 | N/A        | Installed                       | No                            |
| SP-HBB-220-03E piece # 26<br>2" NPS flange | Western Forge & Flange    | Heat No.<br>A070552<br>WFI Code FII | N/A                | * 114-90527<br>PO# 009825-3915 | N/A        | Installed                       | No                            |
|  |                           |                                     |                    |                                |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 2" relief valve and adjacent inlet piping.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 23.4 Feet Water Head Test Temp. 85 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

Relief valve serial number N95709-00-0013 was manufactured to ASME III, 1974 edition with addenda through summer 1974.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date September 25, 2013  
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 Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period MAY 18, 2011 to OCTOBER 18, 2013, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J. H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 18, 2013

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

1. Owner Exelon Generation Company, LLC Date June 29, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0253199 & C0255732  
Address
3. Work Performed by Exelon Nuclear Repair Organization P.O. No., Job No. etc.  
Name Type Code Symbol Stamp N/A  
Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: Fuel Pool Cooling (System 053) Line No. HCC-204-02 Valve 053-2147
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| 3" Ball Valve 053-2147 | BNL Industries       | A140713-1-1             | N/A                | * 118-03373<br>PO# 069294 | 2014       | Installed                       | Yes                           |
| 3" Weld-O-Let          | WFI Nuclear          | Heat Code 6216ANA       | N/A                | * 118-03994<br>PO# 073559 | N/A        | Installed                       | No                            |
| (1) Foot 3" NPS Pipe   | SANDVIK              | Heat No. 538456         | N/A                | * 118-04009<br>PO# 073558 | N/A        | Installed                       | No                            |
|                        |                      |                         |                    |                           |            |                                 |                               |
|                        |                      |                         |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Installed 3" Fukushima flex piping connection to comply with NRC order EA-12-049.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other ☐ N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached
- Ball valve serial number A140713-1-1 was constructed to ASME III, 1971 edition with addenda through summer 1972.
- Work completed in accordance with Exelon design change ECR 14-00017.
- Pre-fabrication completed on work order C0253199. Field installation completed on work order C0255732.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date June 29, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period FEBRUARY 24, 2015 to JULY 1, 2015 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 14396 A. N. I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JULY 1, 2015

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

1. Owner Exelon Generation Company, LLC Date December 18, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0254188  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: High Pressure Core Injection (System 055) Line No. HBB-244 Valve 055-2026
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 1972 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| 4" Check Valve Disc | Velan Valve          | S/N 8189                | N/A                | * 114-33943<br>PO# 037735 | 2010       | Installed                       | Yes                           |
|                     |                      |                         |                    |                           |            |                                 |                               |
|                     |                      |                         |                    |                           |            |                                 |                               |
|                     |                      |                         |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 4" HPCI swing check valve disc.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2



FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work purchase order.  
Applicable Manufacturer's Data Reports to be attached

Valve disc constructed to ASME III, 1971 edition with addenda through summer 1973.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date December 18, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut

have inspected the components described in this Owner's Report during the period JANUARY 12, 2015 to JANUARY 12, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JANUARY 12, 2015

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

1. Owner Exelon Generation Company, LLC Date December 18, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0254147  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: High Pressure Core Injection (System 055) Line No. HBB-244 Valve 055-2F094
5. (a) Applicable Construction Code ASME III 1971 Edition, Winter 1972 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| 4" Check Valve Disc | Velan Valve          | S/N 8182                | N/A                | * 114-33943<br>PO# 035823 | 2010       | Installed                       | Yes                           |
|                     |                      |                         |                    |                           |            |                                 |                               |
|                     |                      |                         |                    |                           |            |                                 |                               |
|                     |                      |                         |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 4" HPCI swing check valve disc.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work purchase order,  
Applicable Manufacturer's Data Reports to be attached

Valve disc constructed to ASME III, 1971 edition with addenda through summer 1973.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date December 18, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

In this Owner's Report during the period JANUARY 12, 2015 to JANUARY 12, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JANUARY 12, 2015

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

1. Owner Exelon Generation Company, LLC Date July 21, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order C0249557  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System High Pressure Coolant Injection (System 055) Line No. HBB-244 Valve HV-055-2F093
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 74 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|------------------------------------|----------------------|-------------------------|--------------------|-------------------------------|------------|----------------------------------|-------------------------------|
| 4" Gate Valve HV- 055-2F093        | Flowserve            | BD 985                  | N/A                | * 114-26544<br>PO# 257797-541 | 2008       | Installed                        | Yes                           |
| 4" Gate Valve HV- 055-2F093        | Flowserve            | AX 137                  | N/A                | N/A                           | 2005       | Removed                          | Yes                           |
| HBB-244-H001<br>(2) 4" NPS U-Bolts | Bergen Pipe Supports | Part No.<br>6504 / 283A | N/A                | * 118-04569<br>PO# 076941     | N/A        | Installed                        | No                            |
|                                    |                      |                         |                    |                               |            |                                  |                               |
|                                    |                      |                         |                    |                               |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 4" HPCI motor operated gate valve and supports
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 1295 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks Manufacturers data reports are traceable by work order package.  
Applicable Manufacturer's Data Reports to be attached  
Gate valve BD-985 was constructed to ASME III, 1971 edition, summer 1971 addenda, code cases 1516-1, N-181  
Refer to Issue report 2513220 for repeat of pressure test.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA  
Certificate of Authorization No. NA Expiration Date NA  
Signed J.H. Kramer J.H. Kramer, Site weld administrator Date July 21, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period OCTOBER 9, 2014 to JULY 21, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N.I. PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date July 21, 2015

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

1. Owner Exelon Generation Company, LLC Date June 10, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0244925  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: High Pressure Core Injection (System 055) Line No. EBB-229 HPCI Booster Pump 20-P204
5. (a) Applicable Construction Code ASME Pump & Valve Draft 1968 Edition, March 1970 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|--|----------------------|-------------------------|--------------------|-------------------------------|------------|---------------------------------|-------------------------------|
| 20-P204 Mechanical Seal Assemblies (2) | Flowserve            | Lot No. 14-006213       | N/A                | * 114-24421<br>PO# 257803-645 | N/A        | Installed                       | No                            |
|  |                      |                         |                    |                               |            |                                 |                               |
|  |                      |                         |                    |                               |            |                                 |                               |
|  |                      |                         |                    |                               |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced HPCI booster pump mechanical seal assemblies
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other 1200 PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2

FORM NIS-2 (BACK)

9. Remarks : None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date June 10, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 9, 2014 to JUNE 11, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N.I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 11, 2015

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

1. Owner Exelon Generation Company, LLC Date July 20, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0257034  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address

4. Identification of System: High Pressure Core Injection (System 055) Line No. EBB-208-01 Pipe Support EBB-208-H048

5. (a) Applicable Construction Code ASME III 19.77 Edition, Winter 1977 Addenda, N-249-11 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable 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) |
|---------------------------------------|----------------------|--------------------------------|--------------------|------------------------|------------|---------------------------------|-------------------------------|
| EBB-208-H048 Transition Tube Assembly | Basic - PSA          | N2334, N3342B, N4742 and N5094 | N/A                | * 118-04470 PO# 076330 | N/A        | Installed                       | No                            |
|                                       |                      |                                |                    |                        |            |                                 |                               |
|                                       |                      |                                |                    |                        |            |                                 |                               |
|                                       |                      |                                |                    |                        |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced transition tube assembly on HPCI steam supply compensating strut EBB-208-H048

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 FORM NIS-2



FORM NIS-2 (BACK)

9. Remarks : Compensating strut EBB-208-H048 was removed, tested and installed under work order C0253578 and A/R A1918574.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date July 20, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period APRIL 8, 2015 to JULY 21, 2015, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JULY 21, 2015

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

1. Owner Exelon Generation Company, LLC Date July 30, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. C0251189  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System: High Pressure Coolant Injection (System 056) Line No. SP-HBB-215-E03 Valve 056-2F048
5. (a) Applicable Construction Code ASME III 1974 Edition, Summer 1975 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---------------------|----------------------|-------------------------|--------------------|-------------------------------|------------|---------------------------------|-------------------------------|
| 2" Check Valve Disc | Flowserve            | Trace Code 16872-6-45   | N/A                | * 114-85557<br>PO# 257797-706 | 2009       | Installed                       | Yes                           |
|                     |                      |                         |                    |                               |            |                                 |                               |
|                     |                      |                         |                    |                               |            |                                 |                               |
|                     |                      |                         |                    |                               |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 2" check valve disc
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other N/A PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date July 30, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period August 5, 2014 to August 5, 2014, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date August 5, 2014

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

1. Owner Exelon Generation Company, LLC Date June 10, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. R1202455  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System HPCI & HPCI Turbine (System 055 and 056) Line No. HBB-213 PSE-056-2D003
5. (a) Applicable Construction Code ASME III 1974 Edition, Summer 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------------------|
| PSE-056-2D003 Rupture Disc and Vacuum support | Continental Disc     | 8258426A                | N/A                | * 114-34521 PO# 068469 | 2014       | Installed                       | No                            |
|   |                      |                         |                    |                        |            |                                 |                               |
|   |                      |                         |                    |                        |            |                                 |                               |
|   |                      |                         |                    |                        |            |                                 |                               |
|   |                      |                         |                    |                        |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced HPCI turbine exhaust inboard rupture disc and vacuum support holder.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 960 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date June 10, 2015  
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 Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period SEPTEMBER 29, 2014 to JUNE 11, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date June 11, 2015

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

1. Owner Exelon Generation Company, LLC Date June 10, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. R1195821  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System HPCI & HPCI Turbine (System 055 and 056) Line No. HBB-213 PSE-056-2D004
5. (a) Applicable Construction Code ASME III 1974 Edition, Summer 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------------------|
| PSE-056-2D004 Rupture Disc and Vacuum support | Continental Disc     | 8258426A                | N/A                | * 114-34521<br>PO# 068469 | 2014       | Installed                       | No                            |
|   |                      |                         |                    |                           |            |                                 |                               |
|   |                      |                         |                    |                           |            |                                 |                               |
|   |                      |                         |                    |                           |            |                                 |                               |
|   |                      |                         |                    |                           |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced HPCI turbine exhaust outboard rupture disc and vacuum support holder.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒  
Other ☐ N/A psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date June 10, 2015  
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 Pennsylvania and employed by HSBCT of Hartford, CT

have inspected the components described in this Owner's Report during the period SEPTEMBER 29, 2014 to JUNE 11, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 11, 2015

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

1. Owner Exelon Generation Company, LLC Date July 8, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work Order No. R1099036  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address

4. Identification of System: Containment Atmosphere (System 057) Line No. SP-HCB-229-E06 Valve SV-057-201

5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 1974 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|-----------------------------------|--------------------------|-------------------------|--------------------|----------------------------------|------------|---------------------------------|-------------------------------|
| SV-057-201                        | Target Rock              | 22                      | N/A                | * 114-58478<br>PO# 070935        | 2015       | Installed                       | Yes                           |
| SV-057-201                        | Target Rock              | 1                       | N/A                | PO# M-0245                       | 1984       | Removed                         | Yes                           |
| (1) Foot 2" NPS Pipe              | SANDVIK                  | Heat No. 453904         | N/A                | * 114-90026<br>PO# 009825-348992 | N/A        | Installed                       | No                            |
| (1) 2" X 3/4" NPS Reducing Insert | Alloy Stainless Products | Heat Code EZN           | N/A                | * 114-93907<br>PO# LS 621155     | N/A        | Installed                       | No                            |
|                                   |                          |                         |                    |                                  |            |                                 |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced 2" NPS solenoid globe valve and adjacent piping

8. Tests conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Exempt ☐  
Other ☐ 44 PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300



FORM NIS-2 (BACK)

9. Remarks : Manufacturers data reports are traceable by Exelon work order package and purchase order.  
Applicable Manufacturer's Data Reports to be attached

Solenoid globe valve serial number 22 was constructed to ASME III, 1974 edition with addenda through winter 1975.

Work completed in accordance with Exelon design change ECR 14-00464.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date July 8, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period April 13, 2015 to July 9, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date July 9, 2015

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

1. Owner Exelon Generation Company, LLC Date August 4, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work orders # C0245275 & C0248639  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System : Emergency Diesel Generator (System-092) Line No. 2AG-LUBE 2A-P535
5. (a) Applicable Construction Code Manufacturer's Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

6. Identification of Components:

| Name of Component                 | Name of Manufacturer | Manufacturer Serial No.    | National Board No. | Other Identification | Year Built | Corrected, Removed or Installed | ASME Code Stamped (Yes or No) |
|-----------------------------------|----------------------|----------------------------|--------------------|----------------------|------------|---------------------------------|-------------------------------|
| 2A-P535 Lube Oil Circulating Pump | Colt Industries      | 1401190                    | N/A                | * 114-79615          | N/A        | Installed                       | No                            |
| 2A-P535 Lube Oil Circulating Pump | Colt Industries      | S/N HJ493 Coltec# 11908177 | N/A                | * 114-79615          | N/A        | Removed                         | No                            |
|                                   |                      |                            |                    |                      |            |                                 |                               |
|                                   |                      |                            |                    |                      |            |                                 |                               |

\* Traceability per Exelon part code number and manufacturer's serial number.

7. Description of Work : Replaced emergency diesel generator lube oil circulation pump.

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ Pressure 5 inches oil (Head pressure) Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Lube Oil pump S/N 1401190 was removed from 1A-P535 location and rebuilt under Exelon work order C0245275  
Applicable Manufacturer's Data Reports to be attached

In 2013. No pressure boundary parts were repaired or replaced.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, site Weld Administrator Date August 4, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period August 5, 2014 to August 5, 2014, 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 14398 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 5, 2014

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

1. Owner Exelon Generation Company, LLC Date December 22, 2013  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0248634  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2A-G501-DR Starting Air Valve 092-2302A
5. (a) Applicable Construction Code Manufacturers Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---------------------------|------------------------|-------------------------|--------------------|--------------------------------|------------|----------------------------------|-------------------------------|
| Flex Flow Valve 092-2302A | Fairbanks Morse Engine | R116126                 | N/A                | * 116-08607<br>PO# 167610-1147 | N/A        | Installed                        | No                            |
| Flex Flow Valve Spacer    | Universal Machine      | Power Labs LIM-17256    | N/A                | * 118-00027<br>PO# 053951      | N/A        | Installed                        | No                            |
|                           |                        |                         |                    |                                |            |                                  |                               |
|                           |                        |                         |                    |                                |            |                                  |                               |
|                           |                        |                         |                    |                                |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine air start valve in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 240 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Commercial grade dedication completed in accordance with Exelon A/R A1670054 evaluation 16.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer (site weld administrator) Date December 22, 2013  
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 PENNSYLVANIA and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period JANUARY 7, 2014 to JANUARY 15, 2014, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JANUARY 15, 2014

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

1. Owner Exelon Generation Company, LLC Date December 22, 2013  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0248635  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2A-G501-DR Starting Air Valve 092-2303A
5. (a) Applicable Construction Code Manufacturers Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---------------------------|------------------------|-------------------------|--------------------|--------------------------------|------------|----------------------------------|-------------------------------|
| Flex Flow Valve 092-2303A | Fairbanks Morse Engine | R116127                 | N/A                | * 116-08607<br>PO# 167610-1147 | N/A        | Installed                        | No                            |
| Flex Flow Valve Spacer    | Universal Machine      | Power Labs LIM-17256    | N/A                | * 118-00027<br>PO# 053951      | N/A        | Installed                        | No                            |
|                           |                        |                         |                    |                                |            |                                  |                               |
|                           |                        |                         |                    |                                |            |                                  |                               |
|                           |                        |                         |                    |                                |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine air start valve in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 250 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Commercial grade dedication completed in accordance with Exelon A/R A1670054 evaluation 16.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date December 22, 2013  
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 PENNSYLVANIA and employed by HSBCT of Hartford, CT

have inspected the components described in this Owner's Report during the period JANUARY 7, 2014 to JANUARY 15, 2014, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JANUARY 15, 2014

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

1. Owner Exelon Generation Company, LLC Date November 5, 2013  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0228037  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2B-G501-DR Combustion Air
5. (a) Applicable Construction Code Manufacturers Standard 19 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|----------------------|------------------------|-------------------------|--------------------|-----------------------------|------------|----------------------------------|-------------------------------|
| 2B1V909 Turbocharger | Fairbanks Morse Engine | 107527 / 4142           | N/A                | * 114-81858 PO# 056648      | N/A        | Installed                        | No                            |
| 2B1V909 Turbocharger | Fairbanks Morse Engine | 027619-L4PA             | N/A                | Cat# 22601509-2 Type 720-D7 | N/A        | Removed                          | No                            |
|                      |                        |                         |                    |                             |            |                                  |                               |
|                      |                        |                         |                    |                             |            |                                  |                               |
|                      |                        |                         |                    |                             |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine turbocharger in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 3.5 inches water psi Test Temp. 650 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300



FORM NIS-2 (BACK)

9. Remarks: None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date November 5, 2013  
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 Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period November 12, 2013 to November 13, 2013, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date NOVEMBER 13, 2013

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

1. Owner Exelon Generation Company, LLC Date November 5, 2013  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0228034  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2B-G501-DR Combustion Air
5. (a) Applicable Construction Code Manufacturers Standard 19 Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|----------------------|------------------------|-------------------------|--------------------|--------------------------------|------------|----------------------------------|-------------------------------|
| 2B2V909 Turbocharger | Fairbanks Morse Engine | 117515 / 4143           | N/A                | * 114-81651<br>PO# 056648      | N/A        | Installed                        | No                            |
| 2B2V909 Turbocharger | Fairbanks Morse Engine | 02733-L4PA              | N/A                | Cat# 22601509-2<br>Type 720-D7 | N/A        | Removed                          | No                            |
|                      |                        |                         |                    |                                |            |                                  |                               |
|                      |                        |                         |                    |                                |            |                                  |                               |
|                      |                        |                         |                    |                                |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine turbocharger in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 3.5 inches water psi Test Temp. 650 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date November 5, 2013  
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 Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period NOVEMBER 12, 2013 to NOVEMBER 13, 2013, 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 14396 A.N.I. PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 13, 2013

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

1. Owner Exelon Generation Company, LLC Date February 20, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0249378  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2C-G501-DR Starting Air Valve 092-2302C
5. (a) Applicable Construction Code Manufacturers Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---------------------------|------------------------|-------------------------|--------------------|--------------------------------|------------|----------------------------------|-------------------------------|
| Flex Flow Valve 092-2302C | Fairbanks Morse Engine | R116225                 | N/A                | * 116-08607<br>PO# 167610-1147 | N/A        | Installed                        | No                            |
| Flex Flow Valve 092-2302C | Fairbanks Morse Engine | 152903-15               | N/A                | N/A                            | N/A        | Removed                          | No                            |
| Flex Flow Valve Spacer    | Universal Machine      | Power Labs LIM-17256    | N/A                | * 118-00027<br>PO# 053951      | N/A        | Installed                        | No                            |
|                           |                        |                         |                    |                                |            |                                  |                               |
|                           |                        |                         |                    |                                |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine air start valve in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 250 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Commercial grade dedication completed in accordance with Exelon A/R A1670054 evaluation 16.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date February 20, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period FEBRUARY 24, 2014 to FEBRUARY 24, 2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date FEBRUARY 24, 2014

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

1. Owner Exelon Generation Company, LLC Date February 20, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0249377  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2C-G501-DR Starting Air Valve 092-2303C
5. (a) Applicable Construction Code Manufacturers Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---------------------------|------------------------|-------------------------|--------------------|--------------------------------|------------|----------------------------------|-------------------------------|
| Flex Flow Valve 092-2303C | Fairbanks Morse Engine | R115880                 | N/A                | * 116-08607<br>PO# 167610-1142 | N/A        | Installed                        | No                            |
| Flex Flow Valve 092-2303C | Fairbanks Morse Engine | M013430-2               | N/A                | N/A                            | N/A        | Removed                          | No                            |
| Flex Flow Valve Spacer    | Universal Machine      | Power Labs LIM-17256    | N/A                | * 118-00027<br>PO# 053951      | N/A        | Installed                        | No                            |
|                           |                        |                         |                    |                                |            |                                  |                               |
|                           |                        |                         |                    |                                |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine air start valve in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other ☐ 250 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Commercial grade dedication completed in accordance with Exelon A/R A1670054 evaluation 16.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date February 20, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period FEBRUARY 24, 2014 to FEBRUARY 24, 2014, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date FEBRUARY, 24 2014

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

1. Owner Exelon Generation Company, LLC Date August 26, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. R1233316  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2DG-COOL Heat Exchanger 2D-E586
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1975 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

6. Identification of Components

| Name of Component       | Name of Manufacturer  | Manufacturer Serial No.               | National Board No. | Other Identification             | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
|-------------------------|-----------------------|---------------------------------------|--------------------|----------------------------------|------------|----------------------------------|-------------------------------|
| 2D-E586 Water Box Cover | NOVA Machine Products | Heat No. C5783 / 7<br>Trace Code H409 | N/A                | * 114-00229<br>PO# 180864-348959 | N/A        | Installed                        | No                            |
|                         |                       |                                       |                    |                                  |            |                                  |                               |
|                         |                       |                                       |                    |                                  |            |                                  |                               |
|                         |                       |                                       |                    |                                  |            |                                  |                               |
|                         |                       |                                       |                    |                                  |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced heat exchanger water box cover.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other 100 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300



FORM NIS-2 (BACK)

9. Remarks: None

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date August 26, 2014  
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 Pennsylvania and employed by HSB Global Standards of

Hartford, Connecticut have inspected the components described in this Owner's Report during the period SEPTEMBER 4, 2014 to SEPTEMBER 4, 2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A.N.I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date SEPTEMBER 4, 2014

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

1. Owner Exelon Generation Company, LLC Date August 26, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0230172  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2D-G501-DR Combustion Air 2D1V909
5. (a) Applicable Construction Code Manufacturers Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|----------------------|------------------------|-------------------------|--------------------|----------------------------|------------|----------------------------------|-------------------------------|
| 2D1V909 Turbocharger | Fairbanks Morse Engine | 027619-L4PA / 4197      | N/A                | * 114-81858 PO# 062832     | N/A        | Installed                        | No                            |
| 2D1V909 Turbocharger | Fairbanks Morse Engine | 038032-X6LA             | N/A                | Cat# 2260159-4 Type 720-FM | N/A        | Removed                          | No                            |
|                      |                        |                         |                    |                            |            |                                  |                               |
|                      |                        |                         |                    |                            |            |                                  |                               |
|                      |                        |                         |                    |                            |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine turbocharger in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other Combustion Air Test: 0.7 inches water psi Test Temp. 400 °F.  
Jacket Water test: 20 psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Original ALCO turbocharger serial number 027619-L4PA. Globe Turbocharger rebuild serial number 4197.  
Applicable Manufacturer's Data Reports to be attached

Turbocharger 027619-L4PA was previously removed for 2B1V909 under work order C0228037 and returned to Fairbanks Morse

Engine for refurbishment.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date August 26, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period August 28, 2014 to August 28, 2014, 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 14396 A, N.I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 28, 2014

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

1. Owner Exelon Generation Company, LLC Date August 26, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0230190  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2D-G501-DR Combustion Air 2D2V909
5. (a) Applicable Construction Code Manufacturers Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|----------------------|------------------------|-------------------------|--------------------|-----------------------------|------------|----------------------------------|-------------------------------|
| 2D2V909 Turbocharger | Fairbanks Morse Engine | 027633-L4PA / 4198      | N/A                | * 114-81651 PO# 062832      | N/A        | Installed                        | No                            |
| 2D2V909 Turbocharger | Fairbanks Morse Engine | 038031-X6LA             | N/A                | Cat# 22601510-4 Type 720-FM | N/A        | Removed                          | No                            |
|                      |                        |                         |                    |                             |            |                                  |                               |
|                      |                        |                         |                    |                             |            |                                  |                               |
|                      |                        |                         |                    |                             |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine turbocharger in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other Combustion Air Test: 5.3 inches water psi Test Temp. 400 °F  
Jacket Water test: 20 psi Test Temp. N/A °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Original ALCO turbocharger serial number 027633-L4PA. Globe Turbocharger rebuild serial number 4198.  
Applicable Manufacturer's Data Reports to be attached

Turbocharger 027633-L4PA was previously removed for 2B2V909 under work order C0228034 and returned to Fairbanks Morse

Engine for refurbishment.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date August 26, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period AUGUST 28, 2014 to AUGUST 28, 2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions 14396 A, N, I PA 3045  
National Board, State, Province, and Endorsements

Date AUGUST 28, 2014

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

1. Owner Exelon Generation Company, LLC Date August 19, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown PA 19464 Work orders # C0253033 & C0245629  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown PA 19464 Expiration Date N/A  
Address
4. Identification of System : Emergency Diesel Generator (System-092) Line No. 2DG-JW 2D-P530
5. (a) Applicable Construction Code Manufacturer's Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity: 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

6. Identification of Components:

| Name of Component                     | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed or Installed | ASME Code Stamped (Yes or No) |
|---------------------------------------|----------------------|-------------------------|--------------------|----------------------|------------|---------------------------------|-------------------------------|
| 2D-P530 Jacket Water Circulating Pump | Colt Industries      | 386337                  | N/A                | *114-02451           | N/A        | Installed                       | No                            |
| 2D-P530 Jacket Water Circulating Pump | Colt Industries      | 386334                  | N/A                | *114-02451           | N/A        | Removed                         | No                            |
|                                       |                      |                         |                    |                      |            |                                 |                               |
|                                       |                      |                         |                    |                      |            |                                 |                               |

\* Traceability per Exelon part code number and manufacturer's serial number.

7. Description of Work : Replaced emergency diesel generator jacket water circulation pump.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other      Pressure 13 PSI Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Jacket water pump S/N 386337 was removed from 1C-P530 location and rebuilt under Exelon work order C0245629  
Applicable Manufacturer's Data Reports to be attached

in 2013. No pressure boundary parts were repaired or replaced.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, site weld administrator Date August 19, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period MARCH 12, 2013 to AUGUST 19, 2014, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 19, 2014

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

1. Owner Exelon Generation Company, LLC Date August 26, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0251119  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2D-G501-DR Starting Air Valve 092-2302D
5. (a) Applicable Construction Code Manufacturers Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---------------------------|------------------------|-------------------------|--------------------|--------------------------------|------------|----------------------------------|-------------------------------|
| Flex Flow Valve 092-2302D | Fairbanks Morse Engine | R117493                 | N/A                | * 116-08607<br>PO# 167610-1206 | N/A        | Installed                        | No                            |
| Flex Flow Valve 092-2302D | Fairbanks Morse Engine | 157609-1                | N/A                | N/A                            | N/A        | Removed                          | No                            |
| Flex Flow Valve Spacer    | Universal Machine      | Power Labs LIM-17256    | N/A                | * 118-00027<br>PO# 053951      | N/A        | Installed                        | No                            |
|                           |                        |                         |                    |                                |            |                                  |                               |
|                           |                        |                         |                    |                                |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine air start valve in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other 250 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300



FORM NIS-2 (BACK)

9. Remarks: Commercial grade dedication completed in accordance with Exelon A/R A1670054 evaluation 16.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date August 26, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period MAY 22, 2014 to DECEMBER 3, 2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date DECEMBER 3, 20 14

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

1. Owner Exelon Generation Company, LLC Date August 26, 2014  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Work Order No. C0251102  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp None  
Name Authorization No. Not applicable  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date Not applicable  
Address
4. Identification of System Emergency Diesel Generator (System 092) Line No. 2D-G501-DR Starting Air Valve 092-2303D
5. (a) Applicable Construction Code Manufacturers Standard 19 N/A Edition, N/A Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs / Replacement Activity 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-686-1

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) |
|---------------------------|------------------------|-------------------------|--------------------|--------------------------------|------------|----------------------------------|-------------------------------|
| Flex Flow Valve 092-2303D | Fairbanks Morse Engine | R117494                 | N/A                | * 116-08607<br>PO# 167610-1206 | N/A        | Installed                        | No                            |
| Flex Flow Valve 092-2303D | Fairbanks Morse Engine | 157609-2                | N/A                | N/A                            | N/A        | Removed                          | No                            |
| Flex Flow Valve Spacer    | Universal Machine      | Power Labs LIM-17256    | N/A                | * 118-00027<br>PO# 053951      | N/A        | Installed                        | No                            |
|                           |                        |                         |                    |                                |            |                                  |                               |
|                           |                        |                         |                    |                                |            |                                  |                               |

\* Traceability per Exelon stock code number.

7. Description of work: Replaced commercial grade diesel generator engine air start valve in-kind.
8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐  
Other 240 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks: Commercial grade dedication completed in accordance with Exelon A/R A1670054 evaluation 16.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (site weld administrator) Date August 26, 2014  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

in this Owner's Report during the period MAY 22, 2014 to DECEMBER 3, 2014, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J.H. Kramer Commissions 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date DECEMBER 3, 2014

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918578  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 19.77 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| DCA-220-E03-H007 Hydraulic Snubber | Lisega               | 99614390/92 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-223-E01-H006 Hydraulic Snubber | Lisega               | 99614390/62 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-411-E01-H001 Hydraulic Snubber | Lisega               | 99614750/109 Lisega     | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-412-E01-H003 Hydraulic Snubber | Lisega               | 99614750/63 Lisega      | N/A                | * 114-59113 PO#069120  | N/A        | Installed                       | No                |
| DCA-204-E03-H003 Hydraulic Snubber | Lisega               | 99614480/78 Lisega      | N/A                | * 114-59113 PO#069120  | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced hydraulic shock arrester snubbers with a new snubbers.

8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918578  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address

4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_

5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(d) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(e) Applicable Section XI Code Case(s) N-508

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 |
|---------------------------------------|----------------------|-------------------------|--------------------|-------------------------------|------------|---------------------------------|-------------------|
| DCA-204-E03-H004 Hydraulic Snubber    | Liseqa               | 99614750/02<br>Liseqa   | N/A                | * 114-59113<br>PO# 069120     | N/A        | Installed                       | No                |
| DCA-296-E02-H005 Hydraulic Snubber    | Liseqa               | 99614750/110<br>Liseqa  | N/A                | * 114-59113<br>PO# 069120     | N/A        | Installed                       | No                |
| HBC-209-E02-H002 Hydraulic Snubber    | Liseqa               | 99614750/104<br>Liseqa  | N/A                | * 114-59113<br>PO# 069120     | N/A        | Installed                       | No                |
| DCA-267-E01-H002 Hydraulic Snubber    | Liseqa               | 99614750/12<br>Liseqa   | N/A                | * 114-59113<br>PO# 069120     | N/A        | Installed                       | No                |
| DCA-231-E01-H010 Hydraulic Snubber    | Liseqa               | 99614750/04<br>Liseqa   | N/A                | * 114-59113<br>PO# 069120     | N/A        | Installed                       | No                |
| DCA-229-E01-H002 Hydraulic Snubber    | Liseqa               | 30500420/048<br>Liseqa  | N/A                | * 114-59113<br>PO# 069120     | N/A        | Installed                       | No                |
| DCA-266-E02-H004(A) Hydraulic Snubber | Liseqa               | 99614750/81<br>Liseqa   | N/A                | * 114-59113<br>PO# 069120     | N/A        | Installed                       | No                |
| STG-2MS-H010 Hydraulic Snubber        | Liseqa               | 31000346/016<br>Liseqa  | N/A                | * 114-00462<br>PO# 275207 -11 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Pedro R. Lopez Coordinator Date May 05, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 16, 2014 to JUNE 29, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 29, 2015

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918574 /A1918578  
Address
3. Work Performed by Exelon Nuclear Repair Organization P.O. No., Job No. etc.  
Name Type Code Symbol Stamp N/A  
Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| DCA-216-E02-H010 Hydraulic Snubber | Lisega               | 99614750/84 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-412-E01-H005 Hydraulic Snubber | Lisega               | 9761368/116 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-204-E03-H009 Hydraulic Snubber | Lisega               | 99614750/53 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-241-E02-H001 Hydraulic Snubber | Lisega               | 99614750/23 Lisega      | N/A                | * 114-59113 PO#069120  | N/A        | Installed                       | No                |
| DCA-251-E01-H003 Hydraulic Snubber | Lisega               | 99614750/30 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced hydraulic shock arrester snubbers with a new snubbers.

8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918574 /A1918578  
Address

3. Work Performed by Exelon Nuclear Repair Organization P.O. No., Job No. etc.  
Name Type Code Symbol Stamp N/A  
Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address

4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_

5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(d) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(e) Applicable Section XI Code Case(s) N-508

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 |
|---------------------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------|
| DCA-266-E02-H004(B) Hydraulic Snubber | Lisega               | 30900222/012<br>Lisega  | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |
| DCA-230-E02-H001 Hydraulic Snubber    | Lisega               | 99614750/03<br>Lisega   | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |
| DCA-219-E01-H007 Hydraulic Snubber    | Lisega               | 99614390/90<br>Lisega   | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |
| DCA-239-E02-H001 Hydraulic Snubber    | Lisega               | 99614750/49<br>Lisega   | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |
| DCA-285-E02-H006 Hydraulic Snubber    | Lisega               | 30500420/051<br>Lisega  | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |
| DCA-296-E02-H006 Hydraulic Snubber    | Lisega               | 99614750/95<br>Lisega   | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |
| DCA-248-E03-H002 Hydraulic Snubber    | Lisega               | 99614750/01<br>Lisega   | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |
| DCA-412-E01-H004 Hydraulic Snubber    | Lisega               | 30900222/008<br>Lisega  | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number



FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Pedro Reyes Coordinador Date May 05, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 15, 2014 to JUNE 29, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 29, 20 15

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918574  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| DBB-212-H001(A) Hydraulic Snubber  | Lisega               | 99614390/94 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-269-E01-H004 Hydraulic Snubber | Lisega               | 99614750/22 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-418-E03-H001 Hydraulic Snubber | Lisega               | 99614750/71 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-280-E01-H007 Hydraulic Snubber | Lisega               | 99614750/05 Lisega      | N/A                | * 114-59113 PO#069120  | N/A        | Installed                       | No                |
| DCA-251-E01-H002 Hydraulic Snubber | Lisega               | 99614750/72 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced hydraulic shock arrester snubbers with a new snubbers.
8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Pedro Riley Coordination Date May 05, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 15, 2014 to JUNE 29, 2015 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 29, 2015

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918578  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| DCA-272-E01-H005 Hydraulic Snubber | Lisega               | 99614480/59 Lisega      | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-204-E03-H001 Hydraulic Snubber | Lisega               | 30500420/054 Lisega     | N/A                | * 114-59113 PO# 069120 | N/A        | Installed                       | No                |
| DCA-219-E01-H004 Hydraulic Snubber | Lisega               | 99614750/26 Lisega      | N/A                | * 114-59113 PO#069120  | N/A        | Installed                       | No                |
| DCA-284-E01-H002 Hydraulic Snubber | Lisega               | 31000496/027 Lisega     | N/A                | * 114-59113 PO#069120  | N/A        | Installed                       | No                |
| DCA-423-E01-H006 Hydraulic Snubber | Lisega               | 99614390/77 Lisega      | N/A                | * 114-59113 PO#069120  | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced hydraulic shock arrester snubbers with a new snubbers.
8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918578  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address

4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_

5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(d) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(e) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------|
| DCA-418-E03-H004 Hydraulic Snubber | Lisega               | 99614750/77<br>Lisega   | N/A                | * 114-59113<br>PO# 069120 | N/A        | Installed                       | No                |
|                                    |                      |                         |                    |                           |            |                                 |                   |
|                                    |                      |                         |                    |                           |            |                                 |                   |
|                                    |                      |                         |                    |                           |            |                                 |                   |
|                                    |                      |                         |                    |                           |            |                                 |                   |
|                                    |                      |                         |                    |                           |            |                                 |                   |
|                                    |                      |                         |                    |                           |            |                                 |                   |
|                                    |                      |                         |                    |                           |            |                                 |                   |

\* Traceability per Exelon stock code number

FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Pedro Rolays Coordinator Date May, 05, 2015  
Owner or Owner's Designee, Title

- 0

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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 16, 2014 to JUNE 25, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 25, 2015

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918574  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|---------------------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------|
| GBB-218-H066(A)<br>Mechanical Snubber | Basic-PSA            | 17382<br>PSA-10         | N/A                | * 114-72887<br>PO# 069089 | N/A        | Installed                       | No                |
| GBB-218-H014(A)<br>Mechanical Snubber | Basic-PSA            | 8946<br>PSA-35          | N/A                | * 114-72849<br>PO# 069097 | N/A        | Installed                       | No                |
| GBB-205-H025<br>Mechanical Snubber    | Basic-PSA            | 7663<br>PSA-10          | N/A                | * 114-72887<br>PO# 069089 | N/A        | Installed                       | No                |
| HBB-228-H006(A)<br>Mechanical Snubber | Basic-PSA            | 12475<br>PSA-10         | N/A                | * 114-72887<br>PO# 069089 | N/A        | Installed                       | No                |
| GBB-217-H009<br>Mechanical Snubber    | Basic-PSA            | 9349<br>PSA-35          | N/A                | * 114-72849<br>PO# 069097 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced mechanical shock arrester snubbers with a new snubbers.

8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918574  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(d) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(e) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| GBB-202-H032 Mechanical Snubber    | Basic-PSA            | 17387 PSA-10            | N/A                | * 114-72887 PO# 069089 | N/A        | Installed                       | No                |
| GBC-204-H005(A) Mechanical Snubber | Basic-PSA            | 9350 PSA-35             | N/A                | * 114-72849 PO# 069097 | N/A        | Installed                       | No                |
| EBB-229-H014 Mechanical Snubber    | Basic-PSA            | 8758 PSA-35             | N/A                | * 114-72849 PO# 069097 | N/A        | Installed                       | No                |
| HCC-204-H026(A) Mechanical Snubber | Basic-PSA            | 12837 PSA-10            | N/A                | * 114-72887 PO# 069089 | N/A        | Installed                       | No                |
| GBB-218-H069(A) Mechanical Snubber | Basic-PSA            | 11685 PSA-3             | N/A                | * 114-72867 PO#069039  | N/A        | Installed                       | No                |
| HBB-219-H008(B) Mechanical Snubber | Basic-PSA            | 7597 PSA-35             | N/A                | * 114-72849 PO# 069097 | N/A        | Installed                       | No                |
| APE-2MS-H003 Mechanical Snubber    | Basic-PSA            | 6686 PSA-35             | N/A                | * 114-72849 PO# 069097 | N/A        | Installed                       | No                |
| EBB-206-H006(A) Mechanical Snubber | Basic-PSA            | 12774 PSA-35            | N/A                | * 114-72849 PO#069097  | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number



FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Pedro Reyes Coordinator Date May, 05 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period JUNE 25, 2015 to JUNE 29, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 29, 2015

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1903903/A1902939  
Address
3. Work Performed by Exelon Nuclear Repair Organization P.O. No., Job No. etc.  
Name Type Code Symbol Stamp N/A  
Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|---------------------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------|
| EBB-207-H005(A)<br>Mechanical Snubber | Basic-PSA            | 12843<br>PSA-35         | N/A                | * 114-72849<br>PO# 069097 | N/A        | Installed                       | No                |
| EBB-207-H004(B)<br>Mechanical Snubber | Basic-PSA            | 2308<br>PSA-3           | N/A                | * 114-72867<br>PO# 069039 | N/A        | Installed                       | No                |
|                                       |                      |                         |                    |                           |            |                                 |                   |
|                                       |                      |                         |                    |                           |            |                                 |                   |
|                                       |                      |                         |                    |                           |            |                                 |                   |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced mechanical shock arrester snubbers with a new snubbers.
8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Richard Meloy Coordinator Date May, 05, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period JANUARY 16, 2015 to JUNE 24, 2015, 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 14396 - A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 29, 20 15

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918579  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|-------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| GBC-201-H190 Mechanical Snubber     | Basic-PSA            | 12829 PSA-35            | N/A                | * 114-72849 PO#069097  | N/A        | Installed                       | No                |
| DCA-410-E01-H003 Mechanical Snubber | Basic-PSA            | 19851 PSA-1             | N/A                | * 114-72850 PO# 069032 | N/A        | Installed                       | No                |
| GBC-201-H061 Mechanical Snubber     | Basic-PSA            | 7431 PSA-35             | N/A                | * 114-72849 PO# 069097 | N/A        | Installed                       | No                |
| EBB-206-H002 Mechanical Snubber     | Basic-PSA            | 6985 PSA-35             | N/A                | * 114-72849 PO#069097  | N/A        | Installed                       | No                |
| HCC-204-H026(B) Mechanical Snubber  | Basic-PSA            | 17509 PSA-10            | N/A                | * 114-72887 PO# 069089 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced mechanical shock arrester snubbers with a new snubbers.
8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918579  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(d) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(e) Applicable Section XI Code Case(s) N-508

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 |
|---------------------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------|
| GBC-204-H005(B)<br>Mechanical Snubber | Basic-PSA            | 9178<br>PSA-35          | N/A                | * 114-72849<br>PO# 069097 | N/A        | Installed                       | No                |
| GBB-218-H014(B)<br>Mechanical Snubber | Basic-PSA            | 9201<br>PSA-35          | N/A                | * 114-72849<br>PO# 069097 | N/A        | Installed                       | No                |
| GBB-218-H068<br>Mechanical Snubber    | Basic-PSA            | 40336<br>PSA-10         | N/A                | * 114-72887<br>PO# 089089 | N/A        | Installed                       | No                |
| HBB-218-H036<br>Mechanical Snubber    | Basic-PSA            | 2666<br>PSA-10          | N/A                | * 114-72887<br>PO# 069089 | N/A        | Installed                       | No                |
| DCA-204-H017<br>Mechanical Snubber    | Basic-PSA            | 9154<br>PSA-35          | N/A                | * 114-72849<br>PO# 069097 | N/A        | Installed                       | No                |
|                                       |                      |                         |                    |                           |            |                                 |                   |
|                                       |                      |                         |                    |                           |            |                                 |                   |
|                                       |                      |                         |                    |                           |            |                                 |                   |

\* Traceability per Exelon stock code number

FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Pedro Rolando Coordinator Date May, 05, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 16, 2014 to JUNE 26, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 26, 2015

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918579/A1918574  
Address
3. Work Performed by Exelon Nuclear Repair Organization P.O. No., Job No. etc.  
Name Type Code Symbol Stamp N/A  
Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| EBB-229-H022 Mechanical Snubber    | Basic-PSA            | 7592 PSA-35             | N/A                | * 114-72849 PO#069097  | N/A        | Installed                       | No                |
| HBB-228-H006(B) Mechanical Snubber | Basic-PSA            | 2669 PSA-10             | N/A                | * 114-72887 PO# 069089 | N/A        | Installed                       | No                |
| GBB-202-H037(A) Mechanical Snubber | Basic-PSA            | 17487 PSA-10            | N/A                | * 114-72887 PO#069089  | N/A        | Installed                       | No                |
| EBB-209-H039 Mechanical Snubber    | Basic-PSA            | 9106 PSA-35             | N/A                | * 114-72849 PO#069097  | N/A        | Installed                       | No                |
| XRE-2XH-H001 Mechanical Snubber    | Basic-PSA            | 45882 PSA-10            | N/A                | * 114-72887 PO# 075740 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced mechanical shock arrester snubbers with a new snubbers.
8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918579 / A1918574  
Address
3. Work Performed by Exelon Nuclear Repair Organization P.O. No., Job No. etc.  
Name Type Code Symbol Stamp N/A  
Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No.
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(d) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(e) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| EBB-208-H048 Mechanical Snubber    | Basic-PSA            | 178 PSB.05              | N/A                | * 114-72938 PO# 049539 | N/A        | Installed                       | No                |
| HBB-218-H042 Mechanical Snubber    | Basic-PSA            | 17471 PSA-10            | N/A                | * 114-72887 PO# 069089 | N/A        | Installed                       | No                |
| GBB-220-H008(A) Mechanical Snubber | Basic-PSA            | 45476 PSA-10            | N/A                | * 114-72887 PO# 055120 | N/A        | Installed                       | No                |
| HBC-293-H012 Mechanical Snubber    | Basic-PSA            | 45591 PSA-1             | N/A                | * 114-72850 PO#066985  | N/A        | Installed                       | No                |
| EBB-209-H018 Mechanical Snubber    | Basic-PSA            | 45740 PSA-3             | N/A                | * 114-72867 PO# 067148 | N/A        | Installed                       | No                |
| HBC-268-H005 Mechanical Snubber    | Basic-PSA            | 45726 PSA-3             | N/A                | * 114-72867 PO# 067148 | N/A        | Installed                       | No                |
| GBB-205-H011 Mechanical Snubber    | Basic-PSA            | 12433 PSA-10            | N/A                | * 114-72887 PO# 069089 | N/A        | Installed                       | No                |
| EBB-202-H023(A) Mechanical Snubber | Basic-PSA            | 1278 PSA-100            | N/A                | * 114-72868 PO# 069092 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number



FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Reeds Relays Coordinator Date May 05, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period JANUARY 16, 2015 to JUNE 26, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 26, 2015

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1908251  
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address

4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_

5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|------------------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------|
| VRR-2RP-H005<br>Mechanical Snubber | Basic-PSA            | 1057<br>PSA-100         | N/A                | * 114-72868<br>PO#069092  | N/A        | Installed                       | No                |
| EBD-212-H017<br>Mechanical Snubber | Basic-PSA            | 17468<br>PSA-10         | N/A                | * 114-72887<br>PO# 069089 | N/A        | Installed                       | No                |
| DCA-201-H014<br>Mechanical Snubber | Basic-PSA            | 179<br>PSB.05           | N/A                | * 114-72938<br>PO# 049539 | N/A        | Installed                       | No                |
| STG-2MS-H011<br>Mechanical Snubber | Basic-PSA            | 7776<br>PSA-35          | N/A                | * 114-72849<br>PO#069097  | N/A        | Installed                       | No                |
| STG-2MS-H007<br>Mechanical Snubber | Basic-PSA            | 43073<br>PSA-100        | N/A                | * 114-72868<br>PO# 069092 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced mechanical shock arrester snubbers with a new snubbers.

8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1908251  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(d) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(e) Applicable Section XI Code Case(s) N-508

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 |
|---------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| VRR-2RP-H003 Mechanical Snubber | Basic-PSA            | 1395 PSA-100            | N/A                | * 114-72868 PO# 069092 | N/A        | Installed                       | No                |
| VRR-2RP-H004 Mechanical Snubber | Basic-PSA            | 43457 PSA-100           | N/A                | * 114-72868 PO#069092  | N/A        | Installed                       | No                |
| STG-2MS-H004 Mechanical Snubber | Basic-PSA            | 1394 PSA-100            | N/A                | * 114-72868 PO# 069092 | N/A        | Installed                       | No                |
| VRR-2RP-H006 Mechanical Snubber | Basic-PSA            | 1271 PSA-100            | N/A                | * 114-72868 PO# 069092 | N/A        | Installed                       | No                |
|                                 |                      |                         |                    |                        |            |                                 |                   |
|                                 |                      |                         |                    |                        |            |                                 |                   |
|                                 |                      |                         |                    |                        |            |                                 |                   |
|                                 |                      |                         |                    |                        |            |                                 |                   |

\* Traceability per Exelon stock code number

FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Redo Plans Coordinator Date May, 05, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period OCTOBER 16, 2014 to JUNE 25, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 25, 2015

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19484 Action Request A1918579  
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19484 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|---------------------------------------|----------------------|-------------------------|--------------------|---------------------------|------------|---------------------------------|-------------------|
| GBB-220-H008(B)<br>Mechanical Snubber | Basic-PSA            | 45245<br>PSA-10         | N/A                | * 114-72887<br>PO# 046771 | N/A        | Installed                       | No                |
| EBB-208-H041<br>Mechanical Snubber    | Basic-PSA            | 45529<br>PSA-35         | N/A                | * 114-72849<br>PO# 067054 | N/A        | Installed                       | No                |
|                                       |                      |                         |                    |                           |            |                                 |                   |
|                                       |                      |                         |                    |                           |            |                                 |                   |
|                                       |                      |                         |                    |                           |            |                                 |                   |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced mechanical shock arrester snubbers with a new snubbers.
8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

FORM NIS-2 (BACK)

9. Remarks : capstan spring replaced

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Pedro Pulayo coordinator Date May. 05 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described in this Owner's Report during the period JUNE 26, 2015 to JUNE 29, 2015, 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 14396 A, N, I PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements  
Date JUNE 29, 2015

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3  
Address
2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918574/A1903903  
Address
3. Work Performed by Exelon Nuclear Repair Organization P.O. No., Job No. etc.  
Name Type Code Symbol Stamp N/A  
Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address
4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_
5. (a) Applicable Construction Code ASME III 19 77 Edition, Winter 1977 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(c) Applicable Section XI Code Case(s) N-508

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 |
|---------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| HBB-245-H006 Mechanical Snubber | Basic-PSA            | 1873 PSA-1              | N/A                | * 114-72850 PO# 069032 | N/A        | Installed                       | No                |
| GBC-201-H141 Mechanical Snubber | Basic-PSA            | 6668 PSA-35             | N/A                | * 114-72849 PO# 069097 | N/A        | Installed                       | No                |
| DCA-201-H048 Mechanical Snubber | Basic-PSA            | 21087 PSA-3             | N/A                | * 114-72867 PO# 069039 | N/A        | Installed                       | No                |
| DLA-207-H024 Mechanical Snubber | Basic-PSA            | 7780 PSA-35             | N/A                | * 114-72849 PO#069097  | N/A        | Installed                       | No                |
| DCA-201-H010 Mechanical Snubber | Basic-PSA            | 7654 PSA-10             | N/A                | * 114-72887 PO# 069089 | N/A        | Installed                       | No                |

\* Traceability per Exelon stock code number

7. Description of Work: Replaced mechanical shock arrester snubbers with a new snubbers.

8. Tests 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 8 1/2 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.

This Form (E00030) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, N.J. 07007-2300

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

1. Owner Exelon Generation Company, LLC Date May 05, 2015  
Name  
200 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3  
Address

2. Plant Limerick Generating Station Unit 2  
Name  
3146 Sanatoga Road, Pottstown, PA 19464 Action Request A1918574/A1903903  
Address

3. Work Performed by Exelon Nuclear Repair Organization P.O. No., Job No. etc.  
Name Type Code Symbol Stamp N/A  
Authorization No. N/A  
3146 Sanatoga Road, Pottstown, PA 19464 Expiration Date N/A  
Address

4. Identification of System Snubbers (System 103) Line No. \_\_\_\_\_

5. (a) Applicable Construction Code ASME III 1977 Edition, Winter 1977 Addenda, N/A Code Case  
(d) Applicable Edition of Section XI Utilized for Repairs or Replacements 2001 edition with addenda through 2003  
(e) Applicable Section XI Code Case(s) N-508

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 |
|-------------------------------------|----------------------|-------------------------|--------------------|------------------------|------------|---------------------------------|-------------------|
| DCA-217-E02-H010 Mechanical Snubber | Basco-PSA            | 19937 PSA-1             | N/A                | * 114-72850 PO# 069032 | N/A        | Installed                       | No                |
| EBB-207-H004(A) Mechanical Snubber  | Basco-PSA            | 3875 PSA-3              | N/A                | * 114-72867 PO# 069039 | N/A        | Installed                       | No                |
|                                     |                      |                         |                    |                        |            |                                 |                   |
|                                     |                      |                         |                    |                        |            |                                 |                   |
|                                     |                      |                         |                    |                        |            |                                 |                   |
|                                     |                      |                         |                    |                        |            |                                 |                   |
|                                     |                      |                         |                    |                        |            |                                 |                   |
|                                     |                      |                         |                    |                        |            |                                 |                   |

\* Traceability per Exelon stock code number



MEW  
7/21/15

Action Request A1818574/A1903903  
Sheet 3 of 3

FORM NIS-2 (BACK)

9. Remarks : none

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Pedro Rolays Coordination Date May 05, 2015  
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 Pennsylvania and employed by HSB Global Standards of Hartford, Connecticut have inspected the components described

In this Owner's Report during the period MARCH 17, 2015 to JUNE 26, 2015, 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 14398 A.N.I. PA 3045  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 26, 2015