

Beaver Valley Power Station Route 168 P.O. Box 4 Shippingport, PA 15077-0004

L. W. Pearce
Site Vice President

724-682-5234 Fax: 724-643-8069

December 30, 2003 L-03-217

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555-0001

Subject: Beaver Valley Power Station, Unit No. 2

Docket No. 50-412, License No. NPF-73

Tenth Refueling Outage Inservice Inspection Report

This letter forwards the Inservice Inspection (ISI) Ninety-Day report on ASME Class 1, 2, 3, and MC components examined during the tenth refueling outage at Beaver Valley Power Station (BVPS) Unit 2. The ASME Boiler and Pressure Vessel Code, Section XI, Article IWA-6230 requires that an inservice inspection report be submitted to the enforcement and regulatory authority having jurisdiction at the plant site within ninety days after completion of an inservice inspection. The recent inservice inspection term at BVPS Unit 2 ended on October 10, 2003.

The Class 1, 2 and 3 examinations are part of Interval 2, Period 2 of the Unit 2 ISI schedule, and were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 1989 Edition, using Code Case N-408-2 for Class 2 piping welds. The Class MC examinations are part of the initial Containment Inspection Interval, and were performed in accordance with the 1992 Edition, 1992 Addendum of the ASME XI Code.

There are no new regulatory commitments identified in this document. If you have any questions concerning this matter, please contact Mr. Larry R. Freeland, Manager, Regulatory Affairs/Corrective Action at 724-682-5284.

Sincerely,

'. W Pearce

c: Mr. T. G. Colburn, Project Manager

Mr. P. C. Cataldo, Sr. Resident Inspector

Mr. H. J. Miller, NRC Region I Administrator

Mr. J. Payton, Commonwealth of Pennsylvania

A047

Inservice Inspection Ninety Day Report

Beaver Valley Power Station Unit 2

Outage 10, Year 2003

Inspection Term: 02/27/2002 to 10/10/2003



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BEAVER VALLEY POWER STATION UNIT 2 Route 168, Shippingport, PA

Outage 10, Year 2003

Inspection Term: 2/27/2002 to 10/10/2003

| Issue date: <u>12-22-03</u> | |
|---|----------------|
| Owner: FirstEnergy 76 South Main St. Akron, OH 44308 | |
| NRC Docket Number: 50-412 | |
| Reactor Supplier: Westinghouse Electric Corporation Commercial Service Date: November 17, 1987 | · |
| Prepared by: | Date: 12-15-03 |
| Reviewed by: M. Supervisor, Nuclear Engineering | Date: 12-16-03 |
| Reviewed by: Dean S. Prymbo ANII | Date: 12-19-03 |
| Approved by: Manager, Plant Engineering | Date: 17-22-03 |

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

| 1. | Owner | FirstEnergy | Nuclear Operating Company, Route 168, Shippingp | ort, PA 15077 | |
|---------------|------------|---|---|--|---|
| - | | | (Name and Address of Owner) | | • |
| 2. | Plant | Beaver Vall | ey Power Station, Route 168, Shippingport, PA 150 | 77 | |
| | | | (Name and Address of Plant) | | • |
| 3. Plant Unit | | 4. Owner Certificate of Authorization (if required) | 26-05000 | | |
| 5. | Commercial | Service Date | 11/17/87 6. National Board Number for Unit | N/A | _ |
| 7. | Components | Inspected | en e | # ************************************ | |

| Component or Appurtenance | Manufacturer or Installer | Manufacturer or Installer Serial No. | State or Province No. | National Board No. |
|---------------------------|------------------------------|--|--------------------------|-----------------------|
| Reactor Coolant | | | 2 TO VARCE I TO: | 2000 110. |
| Piping | Southwest Fabricating | N/A | N/A | N/A |
| Auxiliary | | | | |
| Piping | Schneider Power | N/A | N/A | . N/A |
| 2RCS-P21C | | | | |
| Flywheel | Westinghouse Electric Corp | W-11001-A1(93-A) | N/A | N/A |
| 2RCS-SG21A | Westinghouse Electric Corp | DMGT-1961 | 485065V | W-16598 |
| 2RCS-SG21B | Westinghouse Electric Corp | DMGT-1962 | 485066V | W-16599 |
| 2RCS-SG21C | Westinghouse Electric Corp | DMGT-1963 | 485067V | W-16600 |
| 2CHS-FLT24A | Paul Trinity Micro Corp. | . 22174-4809 | N/A . | · N/A |
| 2MSS-AOV101C | Atwood & Morrill Co | 2-15579-03 | N/A | N/A |
| | 4.1 | | | |
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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 though 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 (E0029) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07008-2300

FORM NIS-1 (Back)

| Inspection Period Identification: 12/29/2001 to 4/29/2005 Inspection Interval Identification: 11/17/1997 to 08/28/2008 Applicable Edition of Section XI 1989 Addenda None Date/Revision of Inspection Plan: 1/2-ADM-2039, Revision 0 Abstract of Examination and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix I (Code Exams) for exams performed during 2R10. 2R10 was the second outage in the 2nd Period of the 2nd Ten-Year Interval. One outage remains in this period to complete the Code percentage requirements. Abstract of Results of Examination and Tests. See text of summary report. Abstract of Corrective Measures. No Corrective measures resulting from NDE ISI examinations were required in 2R10. Code Case N-513 was used to evaluate thinning in the BV2 Service Water System. |
|---|
| Applicable Edition of Section XI 1989 Addenda None Date/Revision of Inspection Plan: 1/2-ADM-2039, Revision 0 Abstract of Examination and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix I (Code Exams) for exams performed during 2R10. 2R10 was the second outage in the 2nd Period of the 2nd Ten-Year Interval. One outage remains in this period to complete the Code percentage requirements. Abstract of Results of Examination and Tests. See text of summary report. Abstract of Corrective Measures. No Corrective measures resulting from NDE ISI examinations were required in 2R10. |
| Date/Revision of Inspection Plan: 1/2-ADM-2039, Revision 0 Abstract of Examination and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix I (Code Exams) for exams performed during 2R10. 2R10 was the second outage in the 2nd Period of the 2nd Ten-Year Interval. One outage remains in this period to complete the Code percentage requirements. Abstract of Results of Examination and Tests. See text of summary report. Abstract of Corrective Measures. No Corrective measures resulting from NDE ISI examinations were required in 2R10. |
| Abstract of Examination and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See Appendix I (Code Exams) for exams performed during 2R10. 2R10 was the second outage in the 2nd Period of the 2nd Ten-Year Interval. One outage remains in this period to complete the Code percentage requirements. Abstract of Results of Examination and Tests. See text of summary report. Abstract of Corrective Measures. No Corrective measures resulting from NDE ISI examinations were required in 2R10. |
| for the Inspection Plan. See Appendix I (Code Exams) for exams performed during 2R10. 2R10 was the second outage in the 2nd Period of the 2nd Ten-Year Interval. One outage remains in this period to complete the Code percentage requirements. Abstract of Results of Examination and Tests. See text of summary report. Abstract of Corrective Measures. No Corrective measures resulting from NDE ISI examinations were required in 2R10. |
| 15. Abstract of Corrective Measures. No Corrective measures resulting from NDE ISI examinations were required in 2R10. |
| |
| |
| 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) Date 126-05000 Expiration Date N/A FirstEnergy Nuclear Operating Co. By |
| (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 CT of Hartford, CT have inspected the components described in this Owner's Report during the period 2/27/2002 to 10/10/2003 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 make 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. Commissions NB 9428 ANIB, PA 2384 |
| Inspector's Signature Commissions NB 9428 ANIB, PA 2384 National Board, State, Province and Endorsements Date 12-19-03 |

OUTAGE SUMMARY

During the Tenth Refueling Outage (2R10) at the Beaver Valley Power Station, Unit 2, Inservice Inspection (ISI) examinations were performed on Class 1, 2, and MC components. This was the second outage in the second period of the second ten year interval. Also included in this report and the counts below, are examinations performed prior to 2R10 during plant operation. The examinations were based on ASME Section XI, 1989 Edition.

ASME XI Class 1 and 2 Credited Exams (See Appendix I)

9

- 1. Twelve (12) Class 1 exams were performed and are divided as follows:
 - a. Pipe Welds

Ultransonic Exams Visual Exams -

b. Reactor Coolant Pump Flywheel

Ultrasonic Exam - 1

- 2. Sixty (60) Class 2 exams were performed and are divided as follows:
 - a. Welds (vessels, valves, and piping)

Ultrasonic Exams - 30
Penetrant Exams - 2
Visual Exams - 24

b. Supports, visual exams - 4

Examinations were performed by FirstEnergy Nuclear Operating Company (FENOC) and contracted NDE Technicians. Appendix I compiles the examinations that have been credited toward fulfilling the Ten Year Plan requirements.

IWE Containment Examination

The BV-2 Containment Liner and associated components (penetrations, welded attachments, bolting) were examined during 2R10 in accordance with 10CRF50.55a(b)(2)(ix). The general visual found no conditions that affected either the containment structural integrity or leak tightness. Minor deficiencies were reported involving flaking paint and paint scratches. These areas did not impact structural integrity and were subsequently cleaned and re-painted. VT-3 examinations were also completed on the moisture barrier and on the bolting removed from the reactor cavity blind flange and the equipment hatch. The moisture barrier and bolting examinations found no unacceptable conditions.

Pressure Testing

The Class 1 piping System Leakage Test was performed prior to plant start-up. All Class 1 bolted connections were examined during 2R10. Also, Class 2 and 3 system functional and system inservice tests were performed on various systems to fulfill the current 40-month pressure testing requirement.

Deficiency Resolution

There were no ISI non-destructive examination deficiencies in 2R10.

Steam Generator Tube Examination

One hundred percent of the in-service tubes were examined in the three steam generators. Results of the examinations are submitted to regulatory authorities in accordance with Technical Specification requirements.

NIS-2 Forms

Included as Appendix II are the NIS-2 Forms associated with repairs and replacements. Code Case N-416-1, Alternative Pressure Test Requirement for Welded Repairs or Installation of Replacement Items by Welding, Class 1, 2 and 3, was used. The NIS-2 specifies when N-416-1 was implemented.

APPENDIX I COMPLETED CODE EXAMINATIONS

APPENDIX I 2R10 Completed Code Exams

| SUMMARY | COMPONENT ID | CATEGORY | ITEM NO | DESCRIPTION | NDE METHOD | ISO NO |
|---------|--------------------|----------|---------|-------------|------------|---------|
| 137300 | 2RCS-006-F01 | B-J | B09.011 | PIPE WELD | UT,,, | 110227 |
| 137600 | 2RCS-006-F02 | B-J | B09.011 | PIPE WELD | UT , , , | 110227 |
| 147000 | 2RCS-005-3-2 | B-J | B09.011 | PIPE WELD | UT , , , | 110233 |
| 151600 | 2RCS-041-F503 | B-J | B09.011 | PIPE WELD | UT,,, | 110237 |
| 152600 | 2RCS-040-2B-2 | B-J | B09.011 | PIPE WELD | UT , , , | 110237 |
| 154630 | 2RCS-044-F07 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 110454 |
| 154660 | 2RCS-024-S03 | R-A | RI-ISI | SOCKET WELD | | 110456 |
| 204700 | 2RCS*P21C-FLYWHEEL | | | FLYWHEEL | UT , , , | E-1C |
| 264000 | 2SIS-288-1B | B-J | | PIPE WELD | UT , , , | 108207 |
| 291200 | 2SIS-270-F06 | B-J | | PIPE WELD | UT , , , | 110801 |
| 292000 | 2SIS-015-1A | B-J | | PIPE WELD | UT , , , | 110801 |
| 295100 | 2SIS-024-1A | B-J | | PIPE WELD | UT,,, | 110802 |
| 314050 | 2CHS-434-F02 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 108301 |
| 315400 | 2CHS-071-F06 | C-F-1 | C05.021 | | UT , , , | 108301 |
| 317450 | 2CHS-433-F02 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 108302 |
| 319600 | 2CHS-072-F02 | C-F-1 | C05.021 | | UT , , , | 108302 |
| 319800 | 2CHS-072-F03 | C-F-1 | | BUTT WELD | UT , , , | 108302 |
| 322400 | 2CHS-072-F06 | C-F-1 | | BUTT WELD | UT , , , | 108303 |
| 322600 | 2CHS-072-F07 | C-F-1 | | BUTT WELD | UT , , , | 108303 |
| 324650 | 2CHS-291-F403 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 108304 |
| 325800 | 2CHS-320-F404 | C-F-1 | | SOCKET WELD | VT-2, , , | 108304 |
| 332250 | 2CHS-124-F409 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 108306 |
| 342500 | 2CHS-207-F02 | C-F-1 | | SOCKET WELD | VT-2, , , | 108313 |
| 373850 | 2CHS-056-F13 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 410-766 |
| 374300 | 2CHS-015-F02 | C-F-1 | | BUTT WELD | UT , , , | 108342 |
| 374500 | 2CHS-015-F03 | C-F-1 | C05.011 | | UT , , , | 108342 |
| 376100 | 2CHS-015-F06 | C-F-1 | | BUTT WELD | UT , , , | 108342 |
| 376300 | 2CHS-015-F07 | C-F-1 | C05.011 | | UT , , , | 108342 |
| 377600 | 2CHS-068-2-A | C-F-1 | C05.011 | * = · | UT , , , | 108343 |
| 389400 | 2CHS-278-F400 | C-F-1 | | SOCKET WELD | VT-2, , , | 108396 |
| 389600 | 2CHS-278-F401 | C-F-1 | | SOCKET WELD | VT-2, , , | 108396 |
| 393500 | 2CHS-275-F400 | C-F-1 | | SOCKET WELD | VT-2, , , | 108397 |
| 393700 | 2CHS-275-F401 | C-F-1 | | SOCKET WELD | VT-2, , , | 108397 |
| 395400 | 2CHS-358-1B | C-F-1 | | BUTT WELD | UT , , , | 108398 |
| 397100 | 2CHS-071-F512 | C-F-1 | C05.021 | | UT , , , | 108398 |
| 397700 | 2CHS-272-F400 | C-F-1 | | SOCKET WELD | VT-2, , , | 108398 |
| 397900 | 2CHS-272-F401 | C-F-1 | C05.030 | SOCKET WELD | VT-2, , , | 108398 |

APPENDIX I 2R10 Completed Code Exams

| SUMMARY | COMPONENT ID | CATEGORY | ITEM NO | DESCRIPTION | NDE METHOD | ISO NO |
|---------|--------------------------|----------|---------|--------------------------|------------|---------|
| 398600 | 2CHS-273-F502A | Ç-F-1 | C05.021 | BUTT WELD | UT , , , | 108398 |
| 434700 | 2CHS-149-F25 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 110298 |
| 459700 | 2CHS*FLT24A-C-2 | C-A | C01.020 | CIRC HEAD WELD # 2 | UT , , , | E-2E |
| 459800 | 2CHS*FLT24A-C-1 | C-A | C01.010 | CIRC SHELL WELD # 1 | UT , , , | E-2E |
| 459900 | 2CHS*FLT24A-WS-1 | F-A | F01.40E | LEG SUPPORT NO. 1 | VT-3, , , | E-2E |
| 460000 | 2CHS*FLT24A-WS-2 | F-A | F01.40E | LEG SUPPORT NO. 2 | VT-3, , , | E-2E |
| 460100 | 2CHS*FLT24A-WS-3 | F-A | F01.40E | LEG SUPPORT NO. 3 | VT-3, , , | E-2E |
| 460200 | 2CHS*FLT24A-WS-4 | F-A | F01,40E | LEG SUPPORT NO. 4 | VT-3, , , | E-2E |
| 460300 | 2CHS*FLT24A-N-3 | C-B | C02.021 | NOZZLE TO SHELL WELD #3 | UT ,PT , , | E-2E |
| 460400 | 2CHS*FLT24A-N-4 | C-B | C02.021 | NOZZLE TO SHELL WELD # 4 | UT ,PT , , | E-2E |
| 475600 | 2MSS-170-F01 | C-F-2 | | BUTT WELD | UT , , , | 100207 |
| 479350 | 2MSS-AOV101C-STUD1 TO 24 | C-D | C04.040 | VALVE BOLTING | UT , , , | 100208 |
| 488600 | 2MSS-43 -6A | C-F-2 | C05.051 | BUTT WELD | UT , , , | 100212 |
| 488700 | 2MSS-43 -6A1A-L05 | C-F-2 | | LONGITUDINAL WELD | UT , , , | 100212 |
| 488900 | 2MSS-43 -6A1A-L06 | C-F-2 | C05.052 | LONGITUDINAL WELD | UT , , | 100212 |
| 493000 | 2MSS-039-F07 | C-F-2 | C05.051 | BUTT WELD | UT , , , | 100213 |
| 502920 | 2QSS-1 -5B | C-F-1 | C05.011 | BUTT WELD | UT, | 107933 |
| 505450 | 2QSS-236-F20 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 520-114 |
| 507120 | 2QSS-2 -5B | C-F-1 | | BUTT WELD | UT , , , | 107934 |
| 507300 | 2QSS-3-21-B | C-F-1 | C05.011 | BUTT WELD | UT , , , | 107935 |
| 507450 | 2QSS-117-F402 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 107935 |
| 524000 | 2QSS-242-F510 | C-F-1 | C05.011 | BUTT WELD | UT , , , | 107978 |
| 526100 | 2QSS-243-F510 | C-F-1 | C05.011 | BUTT WELD | UT , , , | 107979 |
| 681350 | 2SIS-392-F11 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 410-548 |
| 694300 | 2SIS-029-7-A | C-F-1 | C05.011 | BUTT WELD | UT , , , | 108349 |
| 717050 | 2SIS-093-F401 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 109932 |
| 725150 | 2SIS-393-F23 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 510-258 |
| 749000 | 2SIS-104-14 | C-F-1 | C05.030 | SOCKET WELD | VT-2, , , | 110178 |
| 771050 | 2SIS-365-2 | R-A | RI-ISI | SOCKET WELD | VT-2, , , | 110-009 |
| 787900 | 2SIS-096-F508 | C-F-1 | | BUTT WELD | UT , , , | 110798 |
| 999980 | 2CNMT-LINER | E-A | | CONTAINMENT LINER | GV , , , | |
| 999983 | 2CNMT-MOISTBARR | E-D | | MOISTURE BARRIER | VT-3, , , | |
| 999985 | 2CNMT-BLDFLG | E-G | | FUEL CANAL BLIND FLANGE | VT-1, , , | |
| 999986 | 2CNMT-EQUHATCH | E-G | E08.010 | EQUIPMENT HATCH BOLTING | VT-1, , , | |

APPENDIX II

REPAIR / REPLACEMENT ABSTRACT AND NIS-2 FORMS

NIS-2 ABSTRACT

| | | HO E ADOTTAO | |
|----------|------------------|----------------|-----------------|
| FORM NO. | MARK NUMBER | WORK ORDER NO. | <u>COMMENTS</u> |
| 1298 | 2SWS-STRM47 | 98-076238-000 | Replacement |
| 1456 | 2SWS-106 | 200022095 | Replacement |
| 1465 | 2QSS-RV102A | 200020494 | Replacement |
| 1466 | 2FNC-109 | 00-024497-002 | Replacement |
| 1475 | 2CHS-RV382A | 200020357 | Replacement |
| 1511 | 2CHS-P21C | 200018465 | Replacement |
| | • | 200014981 | • |
| 1532 | 2RCS-RV551C | 200024619 | Replacement |
| 1552 | 2SWS-006-042-3 | 02-014152-000 | Replacement |
| 1561 | 2HVC-CND24A | 02-019408-000 | Replacement |
| | • | P.O. 7106761 | • |
| 1616 | 2HVC-CND24B | 200027711 | Replacement |
| | * | P.O. 7121907 | |
| 1619 | 2SWS-482 | 03-000353-000 | Removed |
| 1625 | 2SWS-002-894-3 | 200027511 | Replacement |
| 1643 | 2SIS-126 | 200017191 | Corrected |
| 1648 | 2MSS-AOV101C | 200024834 | Replacement |
| 1650 | 2FWE-RV101 | 200023787 | Replacement |
| 1651 | 2FWS-FCV488 | 200024381 | Replacement |
| • | 2FWS-260 | | Installed |
| 1652 | 2RCS-635 | 200057872 | Corrected |
| 1653 | 2SWS-MOV105B | 200029391 | Replacement |
| 1654 | 2SWS-MOV105D | 200029425 | Replacement |
| 1656 | 2RCS-REV21 | 200036683 | Replacement |
| 1658 | 2-SWS-002-103-3 | ECP-03-0061 | Replacement |
| , • | 2-SWS-002-753-3 | a | |
| • . | 2-SWS-150-966-3 | • | |
| | 2-SWS-002-758-3 | • | |
| * | 2-SWS-150-967-3 | • | • |
| H | 2-SWS-003-759-3 | | • |
| • | 2-SWS-002-092-3 | | |
| | 2-SWS-002-100-3 | | • |
| | 2-SWS-002-101-3 | • | • |
| | 2-SWS-002-102-3 | * | |
| • | 2-SWS-002-103-3 | • | * |
| • | 2-SWS-002-090-3 | | |
| • | 2-SWS-002-091-3 | • | u u |
| • | 2-SWS-002-092-3 | • | • |
| • | 2-SWS-002-093-3 | • | |
| • | 2-SWS-002-094-3 | • | • |
| • | 2-SWS-002-095-3 | • | • |
| • | 2-SWS-003-181-3 | • | |
| • | 2-SWS-003-182-3 | • | • |
| | 2-SWS-003-180-3 | • | • |
| | 2-SWS-003-183-3 | • | • |
| | 2-0410-000-100-0 | | |

NIS-2 ABSTRACT

| | | 113-2 ADSTRACT | |
|-----------------|--------------------|----------------|-----------------|
| <u>FORM NO.</u> | <u>MARK NUMBER</u> | WORK ORDER NO. | <u>COMMENTS</u> |
| 1658 | 2SWS-160 | ECP-03-0061 | Replacement |
| • | 2SWS-161 | • | |
| • | 2SWS-162 | • | |
| • | 2SWS-163 | • | * |
| • | 2SWS-164 | • | " |
| • | 2SWS-165 | * | |
| • | 2SWS-172 | | |
| • | 2SWS-173 | | * |
| • | 2SWS-174 | • | |
| • | 2SWS-181 | * | • |
| | 2SWS-182 | • | n · |
| | 2SWS-339 | • | |
| | 2SWS-1212 | • | |
| • | 2SWS-1213 | • | . * |
| • | 2SWS-1214 | | • |
| • | 2SWS-1215 | • | • |
| 1659 | 2RCS-RV551B | 200025234 | Replacement |
| • | • | 200055363 | н |
| 1660 | 2RCS-PCV456 | 200027218 | Replacement |
| 1661 | 2SIS-85 | 200060100 | Replacement |
| 1662 | 2SWS-58 | 200013138 | Replacement |
| 1664 | 2SVS-80 | 200015645 | Replacement |
| 1665 | 2SVS-82 | 200056455 | Replacement |
| 1666 | 2-SWS-030-076-3 | ECP-02-0225 | Replacement |
| 1667 | 2RCS-SG21A | P.O. 7024829 | Corrected |
| 1668 | 2RCS-SG21B | P.O. 7024829 | Corrected |
| 1669 | 2RCS-SG21C | P.O. 7024829 | Corrected |
| 1671 | 2RCS-PSSP011X | 200028558 | Replacement |
| • | 2RCS-PSSP017X | • | • |
| • | 2RCS-PSSP896 | • | • |
| 1672 | 2CHS-PSSP017X | 200028624 | Replacement |
| • | 2CHS-PSSP025X | • | |
| 1673 | 2QSS-PSSP131Y | 200028697 | Replacement |
| 1674 | 2RHS-PSSP007 | 200028703 | Replacement |
| 1675 | 2SIS-PSSP358Y | 200028716 | Replacement |
| 1676 | 2SIS-PSSP014A | 200028726 | Replacement |
| 1677 | 2SIS-PSSP450X | 200028730 | Replacement |
| 1678 | 2SWS-PSSP752 | 200028738 | Replacement |
| • | 2SWS-PSSP766A | • | • |
| 1682 | 2SWS-57 | 02-014832-000 | Replacement |
| | | | |

| Form | No | 1298 |
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| rom | NO. | 1298 |

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

| . Owner | F.E.N.O.C. | | Da | te | 07/2 | 3/03 | |
|----------------------|---------------------------------|----------------------------|--|---------------------------|---------------|------------------------|---------------------------|
| | (NAME) | | | | | | - |
| 76 South I | Main Street - Akro (ADDRESS) | on, OH 44308 | _ She | eet <u>1</u> | of | · | 2 |
| 2. Plant | Beaver Valley P | ower Station | Uni | it No. | | 2 | · |
| | Shippingport, PA | A 15077 | · · · · · · · · · · · · · · · · · · · | W.O. # | | | ETC. |
| 3. Work Perfo | ormed By <u>FENC</u> | C-Maintenance | Туг | e Code Symbol | Stamp | <u>t</u> | V/A |
| | Shippingport, PA | A 15077 | Aut | thorization No | | N/A | |
| | (ADORESS) | • | Exp | oiration Date _ | - | | |
| | | 0 | (Ol C) | | | | - |
| i. Identificatio | on of System | Service Water | (Class 3) | | | · · | |
| . (a) Applicable | e Construction Code | Section II | l 19 <u>_ 77</u> _ Edi | tion, <u>S'77</u> Addenda | ı, | N/A Code (| Case |
| (b) Applicable | e Edition of Section X | Utilized for Repairs | or Replacements_ | 1989 | | | • |
| 6. Identification | on of Components | Repaired or Re | placed and Re | placements Com | ponents | 5 | |
| | | ÷. | | | | Repaired, Replaced, | ASME Code |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | or Replacement | Stamped (YES or NO) |
| Strainer | Zurn Industries | 9809 | 40 | 2SWS-STRM47 | 1982 | Replaced | Yes |
| Strainer | BNL Industries | A99090-1-(1) | N/A | 2SWS-STRM47 | 2000 | Replace- ment | Yes |
| | | | | | | | · · · · · · |
| | | | | | | | |
| | | | The same of the sa | | | | |
| | · | | | · | | | Ì |
| 7. Description | of Work Rep | laced strainer wi | th spare. | | | | |
| | | | | | | | |
| | | | | | | | |

FORM NIS-2 (Back)

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

Pg. 1 of ____2

| Menufactured and certified by BNL ENERGY STEP. THE BOY STEP | (name and addr | es of N Certificate Holder) | • |
|---|--|---|---------------------------------------|
| 2. Manufactured for ENERGY STEE | isome and address | | HILLS, MI 40320 |
| 3. Location of installation DUQUESNE | LIGHT. BEAVER VALLEY. 20 | O ST RTE 3016.SHIPE | INGPORT. PA15077 |
| | PRAINER Orawing 83646- | nd address) | CRN |
| 5. ASME Code, Section III, Division 1: | . 1977 איים | • · · · · · · . 3 · | ₹ . |
| | fedicion) feddenda d | | (Code Case no.) - |
| 6. Fump or valve STRAINER | Nominal inlet size | Outlet size 3 | |
| 7. Material: Body SA351 GrCF8 | Bonnet SA351 GrCF8 Diel | • | SA193Gr6/SA194GrB |
| (a) (b) Cert. Net'l Holder's Board | (c) Bady Serist | (d) Bonnet Serial | (e) Disk Serial |
| Seriel No. No. | No. | No. | No. |
| A990901-1-(1) | 9400 | 9400 | • |
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^{*}Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8% × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back — Pg. 2 of _____)

| | | Certificate Hol | der's Serial No |
|--|---|--|---|
| 8. Design conditions | psipsi | eF or valve pres | sure class |
| 9. Cald working pressure | 153 psi at 100°F | | |
| J. Hydrostatic test425 | psi. Disk differential test | pressure | psi |
| 1. Remerks: | , | | · · · · · · · · · · · · · · · · · · · |
| | | | |
| | | • | |
| | | | |
| | CERTIFICATION | OF DESIGN | |
| Design Specification certified by . | J.R. HASLAM | P.E. StatePA | Reg. no. 35972-E |
| Design Report certified by | | P.E. State | Reg. no |
| We certify that the statements ma of the ASME Code, Section III, Di N Certificate of Authorization No. | vision 1. * N-2882 | that this pump or valve con | iforms to the rules for construction 11/10/01 |
| | BNL INDUSTRIES, INC. | Signed | mage |
| | (N Cartificate Holder) | Signed | urthorized repulantative) |
| | | | ···· |
| the undersigned holding a ve | CERTIFICATE OF | Intional Roard of Goller an | d Pressure Vessel Inspectors and |
| • • • | ild commission issued by the N CONNECTICUT | lational Board of Boller an and employed byCOI | d Pressure Vessel Inspectors and MERCIAL UNION INS. |
| the State or Province of BOSTON, M | lid commission issued by the N CONNECTICUT A | tational Board of Boiler an and employed byCOI uspected the pump, or valv | d Pressure Vessel Inspectors and MERCIAL UNION INS. e, described in this Data Report on left, the Certificate Holder has con- |
| the State or Province of BOSTON, M | IId commission issued by the N CONNECTICUT A have in , and state that to the best of | istional Board of Boiler an and employed by ispected the pump, or valv of my knowledge and belia | MERCIAL UNION INS. |
| the State or Province of BOSTON, M 05/11/00 structed this pump, or velve, in a | Ild commission issued by the N CONNECTICUT A have in , and state that to the best o coordance with the ASME Code, or the inspector nor his employed Report. Furthermore, neither the | iational Board of Boiler an and employed by EDI ESPECTED THE PROPERTY OF VAIV OF MY knowledge and belie ESPECTED THE PROPERTY OF MAKES ANY WARTENTY, BXI IS INSPECTOR NOT his employ | MERCIAL UNION INS. e, described in this Data Report on ef, the Certificate Holder has con- exessed or implied, concerning the er shall be liable in any manner for |

(1) For manually operated valves only.

| Form No. | 1456 |
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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

| . Owner First Energy | | | Da | te | 10/08 | /2003 | · |
|----------------------|-------------------------------|----------------------------|-----------------------|-------------------------|---------------|--|---------------------------------------|
| 76 South M | Main Street - Akro | n, OH 44308 | She | eet | <u>1</u> o | · | 2 |
| . Plant | Beaver Valley Po | ower Station | Un | it No. | | 2 | - |
| | Shippingport, PA (ADDRESS) | 15077 | | Work (| | 00022095 | lo., etc. |
| . Work Perfo | med By <u>FENO</u> | C-Maintenance | Туг | oe Code Symbo | ol Stamp | | N/A |
| | Shippingport, PA | 15077 | Au | horization No. | | N/A | |
| • | (ADDRESS) | | Exp | oiration Date | | | |
| Identificatio | on of System | Service Water | (Clase 3) | | | • | |
| | Construction Code S | | | n, <u>\$'74</u> Adder | ıda, | N/A Code (| Case |
| | le Edition of Section XI | | - | | | | |
| (c) Applicable | le Section XI Code Ca | se(s): <u>N/A</u> | | | | | |
| . Identificatio | on of Components | | | | | | 1. |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | l'invected, Renaved, or Installed | ASME Code Stamped (Yes or No |
| Duo-Check Valve | Mission/TRW Inc | B4584 | N/A | 2SWS-106 | 1976 | Removed | Yes |
| Duo-Check Valve | Crane Nuclear | D2226 | N/A | 2SWS-106 | 2003 | Installed | Yes |
| | | | | | | | |
| | | | | | | | |
| . Description | of Work Repla | aced valve with | spare. | | | | · · · |
| | | | | | ····· | | |
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FORM NIS-2 (Back)

| 9. Remarks Code Data Reports attached. Applicable Manufacturer's Data Reports to be attached |
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| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| 10 |
| Signed Signed Saxior Ey. Date November 18 , 20 03 |
| Owner or Owner & Designee, rate |
| |
| 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 CT of |
| and the State of Province of Pennsylvania and employed by HSBC1 of Hartford, CT have inspected the components described in the |
| Owner's Report during the period $9-3\sqrt{-0.3}$ to $\sqrt{2-2-0.3}$ 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. |
| |
| Dean S. hyper Commissions I, N. PA 2384 |
| Inspector's Signature National Board, State, Province, and Endorsements |
| n / 1 2 |
| Date /2-2-, 20 03 |

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

Pg. 1 of 2

| 1. | Manufactu | red and c | ertified by | CRANE | Nudear, Inc., | 860 Remin | gton Bouleva | ard, Bolin | igbrook, i | 60440 | <u> </u> |
|-----|---------------------------------------|---------------|----------------------|---------------------------|--------------------|-----------------------------|----------------|---------------------------------------|-------------|-------------|---------------------------------------|
| | | | • • • • • • | | Ţ. | • | | us noder) | • | | |
| 2. | Manufactu | red for _ | First Energy Corpo | ration, POB | | ngport, PA and address o | | | | | · · · · · · · · · · · · · · · · · · · |
| | | • | <i>\$</i> ** | | • | | | | | | , |
| 3. | Location of | installatio | XI Long Term Stor | age Facility, S | hippingport HIII R | oad, Shippi | ngpart, PA 150 |)77 | | | ····· |
| | | | | | | (name and | accress) | | | | • • |
| 4. | Model No., | Series No | ., or Type | 15 SEF-X04 | Drawing | | 802839 | Rev. | <u> </u> | CRN _ | N/A |
| 5. | ASME Cod | ie, Section | ı III, Division 1: _ | 1974 (edition) | | mer 1974 lenda date) | | 3 ass | | (Code C | /A ase no.) |
| 6. | Pump or va | alve | Duo-Chek Va | tve | Nominal inlet | size | 30 (a.) | Outlet | size _ | 3: Gr | |
| 7. | Material: | | | | | | | | | • | ٠, |
| | (a) valve | Body | SA216 WCB | Bonnet | NA | Disk | SA216 W | CB. | Bolting | SA479 | TP 316A |
| | (b) pump | Casting | N/A | Cover | NA | Bolting | N/A | = | oo.a.g | | |
| | (a) | | (b) | | (c) | | (d) | | | (e) | |
| | Cert. | | Nati | i | Body/Casing | - | Bonnet/Cov | rer | | Oisk | |
| | Holder's | | Board | · | Serial | | Serial | | | Serial | |
| | Sertal No. | | No. | | No. | | No. | ٠ | | No. | |
| | D2226 | | N/A | | D2227 | | N/A | | C | 2228 & D | 2229 |
| | | | | | | | | , , , , , , , , , , , , , , , , , , , | - 36 | | /_ |
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^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back) --- Pg. 2 of 2

| | | | Certificate Holder | 's Serial No | . <u> </u> | 2226 |
|----------|---|--|----------------------|---------------|---|------------------------------|
| 8 | Design conditions | 200 (pressure | Psi 300 (temperatu | | r valve pressure dass | ANSI 150 |
| 9. | Cold working pressure | 285 | Psi at 100° | F | | . • |
| 10. | Hydrostatic test | Psi. | Disk differentia | l test pressu | re <u>31</u> 5 | 5 Psi |
| 11. | Remarks: PO No. 71 | 16368, Rev. 0, Item No. 1 | SO No. 21416-0 | 1 Valve IC |): VCI-015-C-3 | |
| | | 8229 Items 1 and 2, Hings 26, Body Ht. #0349, RT S/ | | | | S/N T45 |
| • | | | | | · | |
| • | | · · · · · · · · · · · · · · · · · · · | | | | |
| | * | CERTIFI | CATION OF DESI | GN | | · |
| Desig | gn Specifications certified t | walter Joseph | Parker, Jr. | P.E. State | PA Reg. No. | 24003-E |
| Desig | n Report certified by | N/A | | P.E. State | N/A Reg. No. | N/A |
| | | | | | | • |
| | | CERTIFIC | ATE OF COMPLIA | NCF . | | |
| | ertify that the statements n ASME Code, Section III, | | ect and that this pu | mp or valve | conforms to the rules | s for construction |
| N Ce | rtificate of Authorization No | o. <u>N-2</u> | 899 | Expires | September 24, 200 | 5 |
| Date | 06/26/03 Nar | me CRANE Nuc | | Signed 2 | Jain Feter | entative) |
| | | • • | • | | Garrett Petro | vich |
| | | | | | | |
| | | CERTIFIC | ATE OF INSPECT | ION | | |
| | undersigned, holding a va | | | | | pectors and the |
| _ | or Province of | | | | HSBCT | nemeina. |
| of and s | Hartford, CT tate that to the best of my | Have inspected the pu knowledge and belief the | • • | | | 06/26/03 re_in accordance |
| | he ASME Code, Section II | • | | | | |
| Comp | gning this certificate, neithe conent described in this Da ersonal injury or property o | ita Report. Furthermore, n | either the inspecto | r nor his em | ployer shall be liable l | |
| Date | | TOC. Ourse (Authorized Nuclear Institutory) | Commissions | (Nart. 8d. (| IL 1005 incl. endorsements) and stat | e or prov. And no.) |

(1) For manually operated valves only.

| Form No. | 1465 |
|----------|------|
| FORM NO | IAnn |

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

| I. Owner First Energy | | | | te | 10/08 | /2003 | |
|--|--|----------------------------|-----------------------|-------------------------------|---------------|---|--|
| 76 South Main Street - Akron, OH 44308 | | | _ She | eet <u>1</u> | of | | 2 |
| . Plant | Beaver Valley P | ower Station | Uni | t No. | | <u> </u> | |
| | Shippingport, PA | A 15077 | ··· | Work Or Repair/Replacement | | 00020494 P.O. No., Job N | o., etc. |
| . Work Perfo | med By <u>FENO</u> | C-Maintenance | Тур | e Code Symbol | Stamp | . <u> </u> | V A |
| Shippingport, PA 15077 | | | Aut | horization No | | N/A | · |
| | (ADDNESS) | | Ext | oiration Date | | * | |
| . Identificatio | n of System _ | Quench Spray | (Class 2) | | | | |
| (c) Applicable | le Edition of Section X le Section XI Code Ca an of Components | ase(s): <u>N/A</u> | o or representations | 1505 | | · | |
| Name of Component | Name of Manufacturer | Munufacturer Serial No. | National Board No. | Other Edentification | Year Built | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
| Relief Valve | Dresser Ind. | TG-13645 | N/A | 2QSS-RV102A | 1983 | Removed | Yes |
| Relief Valve | Dresser Ind. | TL-40543 | N/A | 2QSS-RV102A | 1998 | Installed | Yes |
| | | | | | | | |
| | | | | | | " | |
| | | | | | | | |
| | | aced Relief Val | ve with spare fo | r testing purpose | s | | |
| Description | of Work <u>Repl</u> | | | | | | |
| Description | of Work <u>Hep</u> i | • | | | | | |

FORM NIS-2 (Back)

| 9. Remarks Code Data Reports attached. |
|---|
| Applicable Manufacturer's Data Reports to be attached |
| |
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| |
| |
| CERTIFICATE OF COMPLIANCE |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, |
| Section XI. |
| Turna Cada Sumbal Stama NVA |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| |
| Signed Stubb Savir Ey Date Navember 17 . 20 03 |
| 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 CT of |
| Hartford, CT have inspected the components described in the |
| Owner's Report during the period $1/-6-01$ to $12-3-03$, 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 tiable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with |
| this inspection. |
| 1 |
| |
| Mean I have be commission To be PA 1384 |
| Usan J. Mywh Commissions I/N/ 142384 Inspector Signature National Board, State, Province, and Endursements |
| |
| Date /2-320 8 3 |
| Date |

FORM NV-1 CERTIFICATE HOLDERS' DATA REPORT FOR PRESSURE OR VACUUM

RELIEF VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of _2_ Dresser Industries Inc., Dresser Ind. Valve Operations; Int. Hwy. Valve & Controls Div 157 & 3225 North, Al 71309-1430 2. Manufactured for Duquesne Light Company P. O. Box 347 Shippingport, PA 15077-0347 Shippingport, P. 3. Location of Installation Duquesne Light Company Beaver Valley Power Station 4. Valve 1970-2-XFL13 Orifice size ... 815 Nom. Inlet size Summer 1974 N/A 5. ASME Code, Section II, Division 1: .. *See Below at Ambient 150 Safety Relief Fixed Saturated 3NC3038 8. Control ring settings __NA S. Pressure retaining items: Seriel No. or Mat'l. Sooc.. Tensile Identification Including Type or Grade Strength SA479 Type 316 ACX02 84,939 PSI Body ACW98 SA216 Gr. WCC 75.3 KSI Bonnet or Yoke Support Rods Nozzle ACX59 SA479 Type 316 83.730 PS1 Disk Spring Weshers **Adjusting Screws** Spindle Spring Botting Other Items Base Extention ABR42 SA479 Type 316 85,100 PSI **SA105** Bonnet Extension ACX47 73,100 PSI 3763 #/hr. steam ΝA 10. Relieving capacity overpressure as cartified by the National Board . * Base Assembly - 425 PSIG 11. Remarks: Bonnet Assembly - 450 PSIG Disc - 4500 PSIG CERTIFICATION OF DESIGN John F. Harkins PA 30388E Design Specification certified by _ P.E. State Reg. no. __20244 Design Report certified by _ K. Sharma P.E. State CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

Signed

5/20/98

N1747

Name See 1 Above

NV Certificate of Authorization No. .

m of Hets, sketches, or drawings may be used provided (1) size is \$% × 11 /2) info is included on each sheet. [3] each sheet is numbered and the number of sheets is recorded at the top of th

FORM NV-1 (Back 2 Pg. 2 of 2)

Certificate Holder's Serial No. TL-40543

| CERTIFICATE OF INSPECTION |
|--|
| I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province |
| of Louisiana and employed by H.S.B.I. & I. |
| of Hartford, CT have inspected the velve described in this Data Report on |
| 4/27/97 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this valve in accordance |
| with the ASME Code, Section III, Division 1. |
| By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described |
| In this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or |
| a loss of any kind arising from or congected with this inspection. |
| Date #2/98 Signed A Soft Commissions NBMG A W We 2605 LAGE |
| [Net'l. Bd. (Incl. andersomerst) and etate or prov. and etal. |

| Form No. | 1466 |
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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

| . Owner | First Energy | | Dat | е | 12/01/2003 | | | |
|----------------------|--|----------------------------|-----------------------|-------------------------|--------------|---|--------------------------------------|--|
| 76 South M | Main Street - Akro | n, OH 44308 | She | et <u>1</u> | o | · | 3 | |
| . Plant | Beaver Valley Po | wer Station | Uni | t No. | : | 2 | | |
| | Shippingport, PA | 15077 | | Work Orc | | 024497-00 n P.O. No., Job N | | |
| . Work Perfo | med By <u>FENO</u> | C-Maintenance | э Тур | e Code Symbol | Stamp | ! | V/A | |
| | Shippingport, PA | 15077 | Aut | horization No | | N/A | | |
| | (ADORESS) | | Ехр | iration Date _ | | a . | | |
| (b) Applicabl | Construction Code _ e Edition of Section XI e Section XI Code Cas n of Components | Utilized for Repai | | | ddenda, _ | <u>1672</u> Code | Case | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Buik | Corrected, Removed, or Installed | ASME Code Stamped (Yes or N | |
| Check Valve | Walworth | A1091 | 1082 | 2FNC-109 | 1978 | Corrected | Yes | |
| Disc | Crane Nuclear | D0583 | N/A | Ht #026 | 2002 | Installed | Yes | |
| Coyer | Crane Nuclear | D0582 | N/A | Ht #026 | 2002 | Installed | Yes | |
| | | | | | | · | | |
| . Description | of Work Repla | aced valve disc | and cover. | | | | | |
| 3. Tests Cond | incted: Hydrosta | atic Pner | matic [] Nom | inal Operating F | Prossure | . ⊠ Ever | not 🏻 | |

FORM NIS-2 (Back)

| 9. Remarks Code Data Reports attached. Previous NIS-2 Data Report No. 1317. Applicable Manufacturer's Data Reports to be attached |
|--|
| |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| CERTIFICATE OF COMPLIANCE |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| Certificate of Authorization No. N/A Expiration Date N/A |
| 0.0 |
| Signed Signed Sevin Ey. Date <u>December 9</u> , 20 03 |
| |
| 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 CT of |
| Harford CT. have inspected the components described in the |
| Owner's Report during the period $\frac{1/-6-01}{}$ to $\frac{12-10-03}{}$, 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. |
| |
| Dean S. hymby Commissions I, N, PA2384 |
| Inspector's Signature National Board, State, Province, and Endorsements |
| Date 12-10- , 20 03 |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

Pg. 1 of 2

| | | (name and accust | ss of NPT Certificate Holder) | |
|---|--------------------------------|--|-------------------------------|-----------------------------|
| Manufactured for First Energ | y Corporation, PO Box 345, | Shippingport, PA 150 | 77 | |
| | | (name and address | • | • |
| Location of installation Beave | er Valley Power Station, Rout | e 168, PO Box 4, Shi | ippingport, PA 15077 | · |
| | | (name and | d address) | |
| Type C-47565, Rev. 1 | SA351 Gr. CF8 | 70 KSI (Min.) | N/A | 2002 |
| (drawing no.) | (mat), spec. no.) | (tensile strength) | (CRN) | (year built) |
| ASME Code, Section III, Division | on 1: 1971 | Winter 1972 | s 3 ⁺ | N/A |
| | (edition) | (addenda date) | (class) | (Code Case no.) |
| Fabricated in accordance with (| Conet Spac (Div 2 only) | N/A | Revision N/A | Date N/A |
| Papircated by accordance with | Const. opec. (On. 2 om) | (no.) | | |
| | | D/M 15066 | | |
| Remarks: PO No. 7078707 | SO No. 14010-03 6" Disc | , P/N 13500 | | |
| For a 6" Model N376-SP, 150# | Swing Check Valve, Assemi | bly Drawing No. D-50 | 933 | ** No Hydro performed |
| | • | | _ | • |
| Material supplier: PRL Industrie | es, Inc. (Comwall, PA), Ht. No | . 026, PRL S/N's: P8 | 129 | |
| | Add to the Abdahasan Am b | 600 0:- 10 (6) | (ta) 6 14" 1 a | ngth overall (ft. & in.) |
| Nom. thickness (in.) 3/2 | _ Min, design thickness (in.) | D(a. ID (it | . & (n.) _ 5 /2 Le | ngtti overati (it. & ki.) |
| | - | | | • |
| When applicable, Certificate Ho | olders' Data Reports are attac | thed for each item of | this report: | |
| | | | | |
| Part or Appurtenance. | National | l Pa | art or Appurtenance | National |
| Serial Number | Board No. | | | |
| | BOARD NO. | | Serial Number | Board No. |
| • | | | Serial Number | Board No. In Numerical Orde |
| | In Numerical Orde | er • | Serial Number | |
| | In Numerical Orde | er (26) | Serial Number | |
| (1) <u>D0583</u> | | (26) | Serial Number | |
| (1) <u>D0583</u> | In Numerical Orde | 1 1 | Serial Number | |
| (1) <u>D0583</u> (2) | In Numerical Orde | (26) | Serial Number | |
| (1) | In Numerical Orde | (26) (27) (28) (29) | Serial Number | |
| (1) D0583 (2) (3) (4) (5) | In Numerical Orde | (26) (27) (28) (29) (30) | Serial Number | |
| (1) D0583 (2) (3) (4) (5) (6) | In Numerical Orde | (26) (27) (28) (29) (30) (31) | Serial Number | |
| (1) D0583 (2) (3) (4) (5) (6) (7) | In Numerical Orde | (26) (27) (28) (29) (30) (31) (32) | Serial Number | |
| (1) D0583 (2) (3) (4) (5) (6) (7) (8) | In Numerical Orde | (26) (27) (28) (29) (30) (31) (32) (33) | Serial Number | |
| (1) D0583 (2) (3) (4) (5) (6) (7) (8) (9) | In Numerical Orde | (26) (27) (28) (29) (30) (31) (32) (33) (34) | Serial Number | |
| (1) D0583 (2) (3) (4) (5) (6) (7) (8) (9) (10) | In Numerical Orde | (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) | Serial Number | In Numerical Orde |
| (1) D0583 (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) | In Numerical Orde | (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) | Serial Number | In Numerical Orde |
| (1) D0583 (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) | In Numerical Orde | (26) (27) (28) (29) (30) (31) (32) (33) (33) (34) (35) (36) (37) | Serial Number | In Numerical Orde |
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| (1) D0583 (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) | In Numerical Orde | (26) (27) (28) (29) (30) (31) (32) (33) (33) (34) (35) (36) (37) (38) (39) (40) | Serial Number | In Numerical Orde |
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Supplemental information in the form of fists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back) --- Pg. 2 of 2

| | Certificate Holder | r's Serial Nos. | D0583 | Through | N/A |
|---|--|---|---|--|--------------------------|
| | CERTIFICATION OF DESIGN | I | | | |
| Design specifications certified by | Frank A. Gopalani (when applicable) | P.E. State | PA | Reg. No. | 21966-E |
| Design report * certified by | N/A (when applicable) | P.E. State | N/A | Reg. No. | N/A |
| | CERTIFICATE OF COMPLIANCE | CE | | | - |
| We certify that the statements made in this conforms to the rules of construction of the | • | • | Disc - P/N | 1 15966 | · · · · |
| NPT Certificate of Authorization No. | N-2900 | Ex | pires <u> </u> | September 24 | 1, 2002 |
| Date 02/22/02 Name | CRANE Nuclear, Inc. (NPT Certificate Holder) | Signed <u></u> | ` (| rized Representa Sarrett Petrovuality Assurance | vich |
| Province of Illinois of Johnston, RI have in best of my knowledge and belief, the Certii Section III, Division 1. Each part listed has By signing this certificate, neither the inspe | certificate of Inspection sion issued by the National Board of Boiler and employed by and employed by aspected these items described in this Data ficate Holder has fabricated these parts or a been authorized for stamping on the date sector nor his employer makes any warranty, e, neither the inspector nor his employer shising from or connected with this inspection. | Factory Mute Factory Mute Report on ppurtenances in shown above. expressed or im | ual Insuran 02/22/02 accordanc plied, conc | ce Company, and sta e with the AS eming the eq | te that to the SME Code, |
| Date <u>02/22/02</u> Signed <u>02</u> | Commission (Authorized Nuclear Inspector) James Bush | | | ois 1077 tents) and state o | or prov. and no.} |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

Pg. 1 of 2

| on of installation Beaver Va | | (name and te 168, PO Bo | address of purch | eser) | | |
|---|--|--|--|---|--|--|
| C-47565, Rev. 1 | lley Power Station, Rou | te 168, PO Bo | • • | | | • |
| C-47565, Rev. 1 | lley Power Station, Rou | | | | | |
| | | | k 4, Shipping name and addres | | | |
| | 04464 0- 000 | • | • | • | • | |
| | SA351 Gr. CF8 (msrl. spec. no.) | 70 KSI (Mi | | · N/A | _ · | 2002 |
| | (marc sharrier) | francisco an en el | | (Cital) | | (year built) |
| Code, Section III, Division 1: | 1971 | Winter 1 | | 3 | | N/A |
| • | (notition) | (addenda | late) | (class) | • | (Code Case no.) |
| ated in accordance with Cons | t. Spec. (Div. 2 only) | N/A | Revi | sion N/A | _ Oate _ | N/A |
| | • | (na.) | | | | |
| rks: PO No. 7078707 SO | No. 14010-02 6" Cox | rer, P/N 47565 | | | , | * |
| | | | | | | |
| 5 Model N376-SP, 150#, Swi | ng Check Valve, Assem | bly Drawing N | o. D-50933 | | " No Hyd | dro performed |
| al supplier. PRL Industries. In | c. (Comwall. PA 17016) | . Ht. No. 026 | PRL S/N: P83 | ю | • | |
| | | | | | | |
| thickness (in.) 13/16 Mir | n. design thickness (in.) | 280 Dia | i. ID (ft. & in.) | | ingth overall | (ft. & in.) <u>11.25</u> |
| applicable Certificate Holders | ' Data Reports are atta | ched for each i | tem of this re | port: | • | |
| applicable, Geralicate Horizon | Toda Nopela are pas | | | | · · · · · · · · · · · · · · · · · · · | · · |
| Part or Assurtangone | National | | Part or A | onurtenance | | National |
| | | | | | 1 | Board No. |
| | | er | - | | la t | lumerical Order |
| | | 11. | | | 1 | |
| D0582 | N/A | | | | | |
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| | | | 19) | | | |
| | | | 50) | | | |
| | ks: PO No. 7078707 SO Model N376-SP, 150#, Swin al supplier: PRL Industries, In hickness (in.) 13/16 Min applicable, Certificate Holders Part or Appurtenance Serial Number D0582 | Model N376-SP, 150#, Swing Check Valve, Assemal supplier: PRL Industries, Inc. (Comwall, PA 17016) hickness (in.) 13/16 Min. design thickness (in.) applicable, Certificate Holders' Data Reports are attained and Part or Appurtenance Serial Number National Board No. In Numerical Ord D0582 N/A | ks: PO No. 7078707 SO No. 14010-02 6" Cover, P/N 47565 Nodel N376-SP, 150#, Swing Check Valve, Assembly Drawing Nal supplier: PRL Industries, Inc. (Comwall, PA 17016), Ht. No. 026, Indickness (in.) 13/16 Min. design thickness (in.) 280 Dia applicable, Certificate Holders' Data Reports are attached for each in Report Part or Appurtenance Serial Number Roard No. In Numerical Order No. In Numerical Order No. In Numerical Order (C.) D0582 N/A (C.) (C.) | ks: PO No. 7078707 SO No. 14010-02 6" Cover, P/N 47565 Thodel N376-SP, 150#, Swing Check Valve, Assembly Drawing No. D-50933 al supplier: PRL Industries, Inc. (Cornwall, PA 17016), Ht. No. 026, PRL S/N: P83 thickness (in.) 13/16 Min. design thickness (in.) 280 Dia. ID (ft. & in.) applicable, Certificate Holders' Data Reports are attached for each item of this research Number Part or Appurtenance Serial Number National Board No. In Numerical Order (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) | ks: PO No. 7078707 SO No. 14010-02 6" Cover, P/N 47565 "Model N376-SP, 150#, Swing Check Valve, Assembly Drawing No. D-50933 al supplier: PRL Industries, Inc. (Cormwall, PA 17016), Ht. No. 026, PRL S/N: P830 hickness (in.) 13/16 Min. design thickness (in.) 280 Dia. ID (ft. & in.) 8.777 Le applicable, Certificate Holders' Data Reports are attached for each item of this report: Part or Appurtenance Serial Number National Board No. In Numerical Order N/A (26) (27) (28) (29) (30) (31) (31) (32) (33) (34) (35) (36) (37) (37) (37) (37) (38) (39) (40) (41) (42) (43) (44) (45) | ks: PO No. 7078707 SO No. 14010-02 6" Cover, P/N 47565 Model N376-SP, 150#, Swing Check Valve, Assembly Drawing No. D-50933 "" No Hydrology No. D-50930 "" No Hydrology N |

Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 2 and 3 on this Data Report is included on each pheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back) — Pg. 2 of 2

| | Certificate Holder's | Serial Nos. | D0582 | Through | N/A |
|---|--|--|---|--|---------------------------------------|
| | CERTIFICATION OF DESIGN | | | | · · · · · · · · · · · · · · · · · · · |
| Design specifications certified by | Frank A. Gopalani (when applicable) | P.E. State | PA | Reg. No. | 21966-E |
| Design report * certified by | N/A (when applicable) | P.E. State | N/A_ | Reg. No. | N/A |
| | CERTIFICATE OF COMPLIANCE | <u> </u> | | | |
| | in this report are correct and that this (these) of the ASME Code, Section III, Division 1. | | Plate - | P/N | |
| NPT Certificate of Authorization No. | N-2900 | | Expires | September 24 | , 2002 |
| Date <u>02/27/02</u> Name | CRANE Nuclear, Inc. (NPT Certificate Holder) | Signed | ` | orized Representa Garrett Petrov Juality Assurance | rich |
| Province of Illinoi of Johnston, RI have best of my knowledge and belief, the Section III, Division 1. Each part list By signing this certificate, neither the described in this Data Report. Furth | CERTIFICATE OF INSPECTION commission issued by the National Board of Boiler and and employed by inspected these items described in this Data Report a Certificate Holder has fabricated these parts or applied has been authorized for stamping on the date she inspector nor his employer makes any warranty, extermore, neither the inspector nor his employer shall arising from or connected with this inspection. | Factory M on Februaries own above. repressed or | iutual Insurar uary 27, 2002 in accordance implied, conc | ce Company and state with the AS cerning the eq | te that to the ME Code, |
| Date <u>02/27/02</u> Signed | Commission (Authorized Nuclear Inspector) James Bush | | | nois 1077 nents) and state o | r prov. and no.) |

| Form No. | 1475 |
|----------|------|

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

| | • | | | | · * · · · · · · · · · · · · · · · · · · | | |
|---|------------------------------|--|-----------------------|-------------------------|---|---|--|
| 1. Owner | First Energy | | _ Dat | е | 10/08 | /2003 | |
| 76 South M | lain Street - Akro | on, OH 44308 | _ She | eet1 | of | | 2 |
| 2. Plant | Beaver Valley P | ower Station | Unit | t No. | 2 | 2 | |
| | Shippingport, P/ | A 15077 | | Work O | | 00020357 P.O. No., Job N | o., etc. |
| 3. Work Perfor | med By <u>FENO</u> | C-Maintenance (NAME) | Тур | e Code Symbol | Stamp | | <u>VA</u> |
| | Shippingport, P/ | 15077 | Aut | horization No. $_$ | | N/A | |
| | (ADDRESS) | | Exp | oiration Date | - | | |
| 4 Identification | n of System | Chemical and | /olume Control | (Class 2) | | | • |
| 5. (a) Applicable(b) Applicable(c) Applicable | Construction Code | Section III (I Utilized for Repairs ase(s): <u>N/A</u> | 19 <u>71</u> Edition | ı, <u>W'72</u> Ad | denda, _ | N/A Code C | case |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other [dentification | Year Built | Corrected, Removed, or fastalled | ASME Code Stamped (Yes or No) |
| Relief Valve | Crosby Valve | N56900-00-0069 | 726 | 2CHS-RV382A | 1982 | Corrected | Yes |
| Nozzle | Anderson Greenwood Crosby | N90137-10-0354 | N/A | Ht #772556 VBR | 2000 | Installed | No |
| Disc Insert | Anderson Greenwood Crosby | N90448-92-0343 | N/A | . N/A | 2002 | Installed | Yes |
| | | · | | | | · | |
| | | | | | | | |
| 7. Description | of Work Rep | laced Nozzle, Di | sc | | | | |
| 8. Tests Cond | ucted: Hydros Other | _ | | ninal Operating P | | | mpt 🔲 |

FORM NIS-2 (Back)

| 9. Remarks Code Data Reports attached. Previous NIS-2 Data Report No; 241. Applicable Manufacturer's Data Reports to be attached |
|--|
| |
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| |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| and South Commencer and the second se |
| Signed Signed Sexion Evy. Date October 23 , 20 03 |
| |
| 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 CT of |
| Hartford, CT have inspected the components described in the Owner's Report during the period $2-19-02$ to $10-27-03$, and state that to the |
| Owner's Report during the period 2-19-02 to 10-27-03, 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. |
| |
| T / PA 22811 |
| National Board, State, Province, and Endorsements |
| |
| Date $10-27-$, 20 $0-3$ |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL **NUCLEAR PARTS AND APPURTENANCES***

| Manufactured and certified by | | wood Crosby, 43 Kendri | | MA 02093 | | | |
|---------------------------------------|--|---------------------------|---------------|--|--|--|--|
| · · · · · · · · · · · · · · · · · · · | (Name and Address of N Certificate Holder) | | | | | | |
| Manufactured for | · | FIRST ENERGY CORI | | | | | |
| | • | and Address of Purchaser | • | | | | |
| Location of Installation | BEAVER VALLEY POWER STATION | | | | | | |
| Toma De C 66000 DEV D | SA479 TYPE 316 | (Name and Address | 5) . | 2002 | | | |
| Type DS-C-56900 REV.B (drawing no.) | (mat'i. spec. no.) | 75,000 (tensile strength) | (CRN) | 2002 (year built) | | | |
| ASME Code, Section III, Division | | WINTER 1972 | (CRN) · 2 | (year built) | | | |
| ASMIL COC, Section III, Divisio | (edition) | (addenda date) | (class) | (Code Case No | | | |
| Fabricated in accordance with Co | . • | | | Date - | | | |
| I horiotist in accordance with C | omer opois (Div. 2 om)) | (no.) | | | | | |
| Remarks | | (20.) | • | | | | |
| | | | | | | | |
| | | | | | | | |
| Nom. thickness (in.) Mi | n. design thickness (in.) | - Dia. ID (ft & in.) | - Length over | rall (ft & in) | | | |
| When applicable, Certificate Hole | | | | | | | |
| | | | - P | · · · · · · · · · · · · · · · · · · · | | | |
| Part or Appurtenance | National | Part or Appu | rtenance | National | | | |
| Serial Number | Board No. | Serial Nu | mber | Board No. | | | |
| • | in Numerical Order | | in | Numerical Order | | | |
| (1) <u>N90448-92-0343</u> | | (26) | | | | | |
| (2) | | (27) | <u></u> | | | | |
| ") | · | (28) | | , | | | |
| £ | | (29) | | | | | |
| (5) | | (30) | | | | | |
| (6) (7) | | (31) (32) | | | | | |
| (8) | · · · · · · · · · · · · · · · · · · · | (33) | | | | | |
| (9) | <u>.</u> | (34) | | | | | |
| (10) | | (35) | | | | | |
| (11) | | (36) | · · · | | | | |
| (12) | | (37) | | | | | |
| (13) | | (38) | · , | | | | |
| (14) | | (39) | | | | | |
| (15) | | (40) | | | | | |
| (16) | | (41) | | | | | |
| (17) | | (42) | | · | | | |
| (18) | | (43) | | . | | | |
| (19) | <u> </u> | (44) | | | | | |
| (20) | | (45) | | . | | | |
| (21) | | (46) | | | | | |
| (22) | · · · · · · · · · · · · · · · · · · · | (47) (48) | | - | | | |
| (24) | | (49) | | ······································ | | | |
| (25) | | (50) | | | | | |
| (20) | | (30) | | | | | |
| | | | | | | | |
| Design pressure | psi. Temp ° | F Hydro, test pressure | 425 | at temp. 70 | | | |

on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

| CERTIFICATE OF DESIGN |
|--|
| Design specifications certified by H.P. LEONARD P.E. State PA Reg. no. 23938-E (when applicable) |
| Design report* certified by P.E. State Reg. no. (when applicable) |
| |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in this report are correct and that this (these) conforms to the rules of construction of the ASME Code, Section III, Division 1. |
| NPT Certificate of Authorization No. N-1877 Expires Sep. 30, 2004 Anderson Greenwood Crosby |
| Date 18-APR-02 Signed Wrentham, MA by D.E. TU- |
| (NPT Certificate Holder) (Authorized Representative) |
| |
| CERTIFICATE OF INSPECTION |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the |
| State or Province of Massachusetts and employed by Factory Mutual Insurance Co. |
| of Johnston, Rhode Island have inspected these items described in this Data Report on |
| April 18, 20 02 and state that to the best of my knowledge and belief, the Certificate Holder |
| has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has |
| |
| been authorized for stamping on the date shown above. |
| By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning |
| By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any |
| By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning |
| By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any |
| By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any |
| By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. |

| Form No. | 1511 |
|----------|------|
| FORD NO. | 1911 |

| . Owner | Owner First Energy (NAME) | | _ Dat | te | 11/25 | /2003 | · · · · · · · · · · · · · · · · · · · |
|-------------------------------|---|---|-----------------------|---------------------------------------|---------------|---|---|
| 76 South M | 76 South Main Street – Akron, OH 44308 (ADDRESS) | | _ She | eet1 | of | | 3 |
| . Plant | Beaver Valley P | ower Station | Uni | it No | 2 | 2 | |
| | Shippingport, P/ | A 15077 | | W.O. #2000 | | | |
| . Work Perfor | rmed By <u>FENC</u> | C-Maintenance | Тур | pe Code Symbol | Stamp | | √ A |
| | Shippingport, P/ | A 15077 | Aut | thorization No | | N/A | |
| | (ADDRESS) | | Exp | oiration Date _ | | *** | |
| I. Identification | n of System | Chemical and | Volume Control | l (Class 2) | | | |
| (b) Applicable (c) Applicable | Construction Code e Edition of Section X e Section XI Code Ca n of Components | (I Utilized for Repain ase(s): N-416-1 | | n, <u>S'72</u> Addenda <u>1989</u> | ı, | Code Ca | ISE |
| 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) |
| Pump | Pacific Pumps | NC-00020-01 | 746 | 2CHS-P21C | 1989 | Corrected | Yes |
| Discharge Head | Flowserve Corp. | RLSA04165 | N/A | Head, bypass pipe and flange | 2003 | Installed | Yes |
| Seal Housing | Flowserve Corp. | RLSA03094 | N/A | N/A | 2002 | Installed | Yes |
| Seal Housing | Flowserve Corp. | RLSA03093 | N/A | N/A | 2002 | Installed | Yes |
| - | | | | | 2 | · · | |
| '. Description | of Work Rep | | | d nuts, inboard & | | | usings, |
| • | احاجة | & outlet pipe fla | naa etudalaida | and continue of | | | |

| 9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 993. Replaced sections of |
|--|
| Applicable Manufacturer's Data Reports to be attached lube oil piping designed to ANSI B31.1 1967E-S'72A. All bolting was supplied by Nova Machine to |
| Tube on piping designed to Artor Bott. 1 10012 0 121 it 7 in Botting Was supplied by Frota triadimits to |
| ASME Sect. III Class 1 as follows: ¾" studs-Ht #537532-F908, ¾" nuts-Ht #530515/TTC, 7/8" nuts |
| -Ht #35620/TWS, 7/8" studs-Ht #537102/F768, 1-3/4" nuts-Ht #7421868 E749. |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| • |
| Type Code Symbol Stamp NA |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| |
| Signed Signed Segment Descention Descention Signed Descention Desc |
| |
| 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 CT of |
| Harford CT. have inspected the components described in the |
| Owner's Report during the period $9-2-03$ to $12-12-03$, 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. |
| Dean J. Right Commissions IN PA2384 Inspector's Signature Commissions National Board, State, Province, and Endorsements |
| Date /2-/2- , 20 <u>0 3</u> |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

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

Not to Exceed One Day's Production

Pg. 1 of ___2

| anufactured and certified by | Flowserve Corp | o., 2300 E. Vernon Ave., Verno (name and address of NPT Certificate I | n, CA 900: | 58 |
|--|------------------------------|--|--------------|--|
| anufactured for First Energy | Corp., PO Box 3611, Ala | ron, Ohio 44309 | • | |
| | | . (name and address of Purchaser) | DA 15077 | |
| ocation of installationFirst E | nergy Corp., Long 1erm S | (name and address) | PA 13077 | |
| ype:D73894 Rev. 03AS | ME SA 182 F304 | 75 KSI Min. | NA . | 2003 |
| (drawing no.) | (mat'l. spec. no.) | 11010110 | CRNI | (year built) |
| SME Code, Section III, Division 1: | 1971 | Summer 72 | 2 | NA (Code Case no.) |
| | (edition) | (eddenda date) NA | (class) | NA |
| sbricated in accordance with Cons | t. Spec. (Div. 2 only) | (ne.) Revision | | _ Date |
| emarks: Nomenclature: Asse | embly, Discharge Head, Co | onsisting of: | | • . |
| | I G 4 400 F304 F3 F3 | C4 212 20/I Breen Flor | co-SA 192 | E304 |
| Head | I-SA 182 F304, Bypass P1 | pe-SA 312 304L, Bypass Flan | gc-SA 102 | 1304 |
| • | | | | |
| 4 (257 | | 1.500" o: "10 (6 a in 1 1', 1 | 10" | 0'.9. |
| om. thickness (in.) 4.625" M | in. design thickness (in.) 📖 | Dia. ID (ft & in.) | Length | oversil (ft & in.) |
| hen applicable, Certificate Holder | s' Data Reports are attached | for each item of this report: | | |
| | | | | |
| | 1 | | | Marianal |
| Part or Appurtenance | National | Part or Appurtenar | ice | National Board No. |
| Serial Number | Board No. | Serial Number | N | in Numerical Order |
| | in Numerical Order | | | in Numerical Order |
| ,,, RLSA04165 | NA | 1961 | | e en |
| 11/ | | (26) | | |
| (2) | | (28) | | |
| (4) | | (29) | | |
| (5) | | (30) | | |
| (6) | | (31) | i | |
| (7) | | (32) | | · |
| (8) | | (33) | | |
| (9) | | (34) | | |
| (10) | | (35) | | |
| (11) | · <u>·</u> | (36) | | |
| (12) | | (37) | | |
| - L | | | | |
| (13) | | (38) | | |
| (14) | | (39) | | |
| (14)(15) | | (39) | | |
| (14) (15) (16) | | (39) (40) (41) | | |
| (14) | | (39) (40) (41) (42) | | |
| (14) (15) (16) (17) (18) | | (39) (40) (41) (42) (43) | | |
| (14) | | (39) (40) (41) (42) (43) (44) | | |
| (14) | | (39) (40) (41) (42) (43) (44) (45) | | |
| (14) | | (39) (40) (41) (42) (43) (44) (45) (46) | | |
| (14) (15) (16) (17) (18) (19) (20) (21) | | (39) (40) (41) (42) (43) (44) (45) (46) (47) | | |
| (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) | | (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) | | |
| (14) (15) (16) (17) (18) (19) (20) (21) | | (39) (40) (41) (42) (43) (44) (45) (46) (47) | | |

^{*}Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ × 11. (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of ____)

| | Certificate Holder's Serial No. | s through |
|---|---|---|
| - | CERTIFICATION OF DESIGN | |
| Design specifications certified by | Albert John Wettlaufer | P.E. State PA Reg. no. 13335-E |
| *Design report* certified by | | P.E. State NA Reg. no. NA |
| | CERTIFICATE OF COMPLIANCE | |
| We certify that the statements made | e in this report are correct and that this (these) | Assembly, Discharge Head |
| | on of the ASME Code, Section III, Division 1. | • |
| NPT Certificate of Authorization No. | N-1131 Expires | June 10, 2005 |
| Date1/16/03 Name | Flowserve Corp., Pump Division Signed Signed | J & Costantino (authorized representative) |
| | CERTIFICATE OF INSPECTION | |
| I, the undersigned, holding a valid c California | ommission issued by the National Board of Boiler and Pressuloyed by | re Vessel Inspectors and the State or Province of |
| Unetford CT | inspected these items described in this Data Report on | 1.16.03, and state that to the |
| best of my knowledge and belief, th | ne Certificate Holder has fabricated these parts or appurtenant | ces in accordance with the ASME Code, Section |
| • | een authorized for stamping on the date shown above. | |
| · | he inspector nor his employer makes any warranty, expressed wither the inspector nor his employer shall be liable in any man nected with this inspection. | |
| Date1/16/03 Signed | linely F. Reyes Commissi | ions PB 4495N CA1526 |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

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

Not to Exceed One Day's Production

Pg. 1 of ___2_

| nufactured for FIRST ENERG | n, beaver valley, se | IPPINGPO | RT, PA 15077 | | | |
|------------------------------------|-----------------------------|-------------|--|-------------|--------------|-----------------|
| | | | and address of furchaser) | | | |
| cation of installationFIRST | MERGY, BEAVER VALLEY | SHIPPI | (NGPURCE, PA 150 (name and address) | <u> </u> | | |
| pe: <u>D17368-00-00-05P-5P_A</u> | 202 SA-182 GR. 7-304 | 75,000 | <u> </u> | H/A | | 2002 |
| (drawing no.) | (mat'l, spec. no.) | (tensile s | trengthi | (CRN) | | (year built) |
| ME Code, Section III, Division 1: | 1971 | SUMMER | | 2 | | N/A |
| | fedition! | (800 | denda datel | (class) | | (Code Case no.) |
| bricated in accordance with Cons | t. Spec. (Div. 2 only) | N/A | Revision | N/A | Date | N/A |
| PT ANCERVE JOB NO. | . DECEMBER MONEY | • | : SEAL BOUSING | MATT. | TYDD 4 ICHR | SA-182 GR. P |
| TO HOLD NO. | ": MICYODALA MOREN | - LINI URL | SEMI ROUSING | BAL D. | ILEE: ROCK | SK-102 CK. I |
| • | * | | | | | |
| | | | | | | |
| hen applicable, Certificate Holder | s' Data Reports are attache | d for each | i item of this report: | | T | |
| Part or Appurtenance | National | | Part or Appu | rtenance | | National |
| Serial Number | Board No. | | Serial Nu | mber | i e | oard No. |
| | in Numerical Order | | | | in Nu | merical Order |
| 77.63.63.64 | | | | | | • |
| (1) RLSA03094 | | | (26) | | | |
| (2)RISA03095 | | | (27) | | | |
| (3) RISA03091 (4) RISA03093 | | | (28) | | | |
| 177 | | | (29) | • | | |
| (5) | | | (31) | | · | |
| (6) (7) | | | (32) | | | |
| (8) | * | | (33) | | | |
| (9) | | | (34) | | | |
| 10) | | | (35) | | | |
| | | | (36) | | | |
| 11) | | | | | i | |
| 12) | | | (37) | | | |
| | | | (37) | | 1 | |
| 12) 131 14) | | | 1 | | | |
| 12) 13) 14) 15) | | | (38) (39) (40) | | | |
| 12) 13) 14) 15) | | | (38) (39) (40) (41) | | | |
| 12) 13) 14) 15) 16) | | | (38) (39) (40) (41) (42) | | | |
| 12) | | | (38) (39) (40) (41) (42) (43) | | | |
| 12) | | | (38) (39) (40) (41) (42) (43) (44) | | | |
| 12) | | | (38) | | | |
| 12) | | | (38) | | | |
| 12) | | | (38) | | | |
| 12) | | | (38) | | | |

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

FORM N-2 (Back - Pg. 2 of ______)

| | Certificate Holder | rs Senai Nos through |
|---|---|---|
| | CERTIFICATION OF DESIG | gn |
| Design specifications certified by | Albert John Wettlaufer | P.E. State PA Reg. no. 13335-E |
| Design report * certified by | W. O. Shepherd (when applicable) | P.E. State N/A Reg. no. N/A |
| | CERTIFICATE OF COMPLIA | NCE |
| We certify that the statements made i | n this report are correct and that this (these) _ | SEAL HOUSING |
| conforms to the rules of construction | of the ASME Code, Section III, Division 1. | , |
| NPT Certificate of Authorization No Date4/26/02 Name PIO | N-1131 RSERVE CORPORATION, ROTATING EQUIPM INDEX Cortificate Holders DIVISION | Expires JUNE 10, 2002 Description (authorized registering) |
| | CERTIFICATE OF INSPECT | TION |
| I, the undersigned, holding a valid cor <u>CALIFORNIA</u> and employ | | r and Pressure Vessel Inspectors and the State or Province of |
| | spected these items described in this Data Rep | port on 4/26/02 and state that to the |
| l . | | r appurtenances in accordance with the ASME Code. Section |
| III. Division 1. Each part listed has bee | en authorized for stamping on the date shown | above. |
| By signing this certificate, neither the | inspector nor his employer makes any warran | ty, expressed or implied, concerning the equipment described |
| in this Data Report. Furthermore, neit | her the inspector nor his employer shall be liabl | e in any manner for any personal injury or property damage or |
| loss of any kind arising from or conne | cted with this inspection | - : |
| DateSigned | \$.0.0mm | Commissions |

| Form | No | 1532 |
|------|----|------|

| | Owner First Energy | | _ Da | te | 10/13 | /2003 | · · · · · · · · · · · · · · · · · · · |
|----------------------|-------------------------|---------------------------------|---------------------------------------|----------------------------|---------------|-------------------------------|---------------------------------------|
| 76 South M | • • • • | ron, OH 44308 | _ Sh | eet1_ | of | i | 1 |
| 2. Plant | Beaver Valley | Power Station | Un | it No | | 2 | |
| | Shippingport, F | PA 15077 | | Work O | | 00024619 n P.O. No., Job N | lo., etc. |
| 3. Work Perfor | med By <u>FEN</u> | OC-Maintenance (NAME) | Ту | oe Code Symbol | Stamp | 1 | V/A |
| | Shippingport, F | PA 15077 | Au | thorization No | | N/A | • |
| | (ADORESS) | | Ex | piration Date _ | | | |
| . Identification | n of System | Reactor Coolan | t (Class 1) | | | ······ | |
| 6. Identification | e Section XI Code (| ts | | I . | | Corrected, Removed, | ASME Code |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | or Installed | Stamped (Yes or No) |
| | | 1 | | | | | |
| Safety Valve | Crosby | N56963-01-0011 | N/A | 2RCS-RV551C | 1985 | Removed | Yes |
| Safety Valve | Crosby | N56963-01-0011 N56963-00-007 | N/A N/A | 2RCS-RV551C 2RCS-RV551C | 1985 | Removed | Yes Yes |
| | | | · · · · · · · · · · · · · · · · · · · | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Safety Valve | Crosby | | N/A | | | | |

| 9. Hemarks Previous NIS-2 Data Report NOS: 1474, 979, 556, 345, 205, 123, 014, and 010 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 rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| Ω |
| Signed Sever Ey. Date <u>December 10</u> , 20 03 |
| |
| 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 Pennsystvania and employed by HSB CT of |
| Hartford, CT. have inspected the components described in the |
| Owner's Report during the period $9-24-03$ to $12-70-03$, 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. |
| |
| |
| We an J. Nymhy Commissions I, N. PA 2384 Inspector's Signature National Board, State, Province, and Endorsements |
| |
| Date /2-/0- , 20 03 |

| Form No. | 1552 |
|----------|------|

| - | | | | | | | | |
|----|----------------------|-------------------------|--|-----------------------|-------------------------|----------------|---|--|
| 1. | Owner | First Energy | | Da | te | 11/20 | /2003 | |
| | 76 South M | Main Street - Akre | on, OH 44308 | _ Sh | eet <u>1</u> | o | · | 1 |
| 2. | Plant | Beaver Valley P | ower Station | Un | it No | | 2 | |
| | | Shippingport, PA | \ 15077 | | W.O. | 02-014 | 152-000 | |
| | | (ADDRESS) | | | Repair/Replacement | Organization | r P.O. No., Job N | lo., etc. |
| 3. | Work Perfo | med By <u>FENO</u> | C-Construction (NAME) | Serv. Typ | pe Code Symbol | Stamp | | N/A |
| | | Shippingport, PA | 15077 | Au | thorization No | | N/A | |
| | | (ADORESS) | | Ex | piration Date _ | | 4 | |
| 4. | Identificatio | n of System | Service Water | (Class 3) | · · | | <u> </u> | |
| _ | 4-\ A#1 t | Occasionation Ocasio | Castian II | 1 40 74 F-101- | - 14/170 Ad | _قديديقا | 0-4-0 | |
| Э. | | Construction Code | | • | | qenda, _ | Code C | ise |
| | | e Edition of Section X | | s or Replacements | 1989 | | | |
| | (c) Applicable | e Section XI Code Ca | ıse(s): N-416-1 | | | | | |
| 6. | Identification | n of Components | ; | | : | | | |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Bourd No. | Other Identification | Year Buik | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
| | Pipe | Schneider Power | N/A | · N/A | 2-SWS-006-042-3 | 1976 | Corrected | Yes |
| | Pipe | FENOC | N/A | N/A | 2-SWS-006-042-3 | 2002 | Installed | No |
| | | | —————————————————————————————————————— | | | | | |
| | | | | | | | | |
| | - | · | | | | | | |
| | | | | L | <u> </u> | l | <u> </u> | L |
| 7 | Description | of WorkCut- | out and rapiace | d anotion of nine | • | | • | |
| 7. | Description | OI WOIKCUI- | Jul and replaced | section of pipe | 5. | | | |
| | | | | | · | | | |
| | | | | | · - | - | | |
| c | Tasks Ossal | ، سياسيا المواميا | otio 🗀 🖰 | matia 🗀 - Alees | inal Onessine D | 2000: - | M | |
| ರ. | Tests Cond | - . | atic 🔲 Pneur | | ninal Operating P | | | npt 🗀 |
| | | Other [| Pressure _ | psi | Test Temp. | <u> </u> | °F | |

| Applicable Manufacturer's Data Reports to be attached existing weld nos. 2SWS-042-F-506 and 2SWS-042-F-508 was replaced. New pipe heat no. is |
|--|
| X82785 on P.O. 7059737; new weld nos. are 2SWS-042-F-511 and 2SWS-042-F-512. |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| Certificate of Authorization No. N/A Expiration Date N/A |
| Signed Solvier Ey Date November 20 , 20 03 |
| 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 have inspected the components described in the |
| Owner's Report during the period $6-12-03$ to $1/-26-03$, 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 manifer for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. |
| Dean J. Manuel Commissions I National Board, State, Province, and Endorsements |
| Date |

| Form No | 1561 |
|---------|------|

| 1. Owner | F.E.N.O.C. | · · · · · · · · · · · · · · · · · · · | _ | Date | • <u> </u> | 04/2 | 1/03 | |
|----------------------|---|---------------------------------------|--------------------|-------------|----------------------------------|---------------|---|---|
| 76 South N | flain Street - Akro | n, OH 44308 | . | She | et1_ | of | | 1 |
| 2. Plant | Beaver Valley Po | ower Station | · . | Unit | No | | 2 | |
| | Shippingport, PA (ADDRESS) | 15077 | · . | | P.O. #7106761 REPAIR ORGANIZA | | | |
| 3. Work Perfo | rmed By <u>AMS N</u> | lechanical Syste | m; Inc | Тур | e Code Symbol | Stamp | | 'R" |
| , | 140 E. Tower Dri (ADDRESS) | ive, Burr Ridge I | L 60521 | | norization No iration Date _ | | | 03 |
| I. Identificatio | n of System | Service Water | (Class 3) | | | | | |
| (b) Applicable | Construction Code _ Edition of Section XI n of Components | Utilized for Repairs | or Replacem | ents | 1989 | • | · | se |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Bo No. | erd | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (YES or NO) |
| Condenser | Carrier Corp. | 9915689 | 13911 | 7 | 2HVC-CND24A | 1978 | Replace- ment | Yes |
| Tube-sheets | Energy & Process Corp | N/A | N/A | | Ht #2103014 | 2002 | Replace- ment | No |
| Tubes | Energy & Process Corp | N/A | N/A | | Lot #1 | 2002 | Replace- ment | No |
| | | | | | | . : | · ·. | |
| | | | | | | | | |
| 7. Description | of Work Repl | aced the heat ex | changer to | ube s | heets and tubes | | | |
| 8. Tests Cond | - | | eumatic 🗌 | | Nominal Operati | • | | |

| 9. Remarks Code Data Reports attached. AMS Mechanical Systems (Preferred Metal Technologies) |
|--|
| replaced the tubes and tube-sheets with material purchased as ASME III Class 3 by FENOC under |
| P.O. #7106761. The condenser tube side was designed/built to ASME Section III Class 3, while |
| the shell side was ASME Section VIII (Natl. BD #139116). Shell pneumatically tested to 482 psig. |
| THE SHEW SIDE WAS ASMIC DECIDITY IN (1944). 55 # 100 1 10). Shell phodinalizing tosted to 402 psig. |
| |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in the report are correct and this Replacement conforms to the rules of the ASME Code Section XI. |
| Type Code Symbol Stamp per ½-ADM-0801 "ASME Section XI Repair/Replacement and Repair/Alteration Program" |
| Certificate of Authorization No. N/A Expiration Date N/A |
| On SO |
| Signed April 21 , 20 03 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 Factory Mutual Insurance Co. |
| |
| Owner's Report during the period $12/6/02$ to $4/23/03$, 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. |
| Child a respect in accordance with the requirements of the result of control of the result of the re |
| 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. |
| 01 + 00 0 |
| Clothest Cimoch Commissions NB 7509 (V,I) PA 2162 Inspector's Signature Commissions National Board, State, Province, and Endorsements Date April 23 , 20 03 |
| Date <u>April 23</u> , 20 <u>03</u> |

FORM R-1 REPORT OF WELDED REPAIR
In accordance with provisions of the National Board Inspection Code

| PAGE. | Z5 SINC. |
|-------|----------|
|-------|----------|

| 1, | Work performed byAMS Mechanical Systems, Inc. | • | 12 | 21 |
|------------------|--|------------------|---------------------|---|
| • | (name of repair organization) | | | orm R No.) |
| | 140 East Tower Drive, Burr Ridge, IL 60527 | | 7107643 | · . |
| _ | (address) | | (P.O. No. Job | No. etc.) |
| 2. | Owner First Energy Corporation | | | · |
| | (name) | | • | |
| | 76 South Main Street, Akron, OH 44308 | | | |
| ٦. | Location of installation Beaver Valley Power Station | | • | إ |
| ٠. | (name) | | | <u> </u> |
| _ | Route 168, Shippingport, PA 15077 | | | |
| | (address) | | | • |
| 4, | Unit identification Condenser Name of original manufactur | гег | Carrier Co | orporation |
| | (boiler, pressure vessel) | | • | |
| e | 71-46 | | | 1070 |
| 5. | Identifying nos.: 9915689 139116 - (mfg scrial no.) (National Board No.) (jurisdiction no.) | | (other) | 1978 (year built) |
| | · (mig serial in.) (reasoner totale tas.) (masses |).) | (omer) | (year bum) |
| 6. | NBIC Edition / Addenda: 2001 | 2002 | | |
| ,~ | (edition) | | (addenda) | |
| | Original Code of Construction for Item: ASME Section VIII D | Yiv. 1 | 1974/- | • |
| | (name/section/division) | | (edition/adden | ida) |
| | Construction Code Used for Repair Performed: ASME Section VIII | ர பு!் 1 | 2001 / 200 | ก |
| | Construction Code Osed for Repair Performed: ASIVE Section VIII (name/section/division) | | | on/addenda) |
| 7. | Repair Type: Welded Graphite Pressure Equipment | <i>'</i> — | FRP Pressure | • |
| 8. | Description of Work: Removed the installed (2) new tubesheets (SA | A-516 G | rade 70) and | <i>(</i> 110) |
| ٠. | (use supplemental sheet, Form R-4, if nec | cessary) | | • |
| | condenser tubes (SB-359). Installed/welded (16) inserts (SA-516 C | <u> Grade 70</u> |) within tube | sheets. |
| | Pressure Test, if applied Pneumatic 482 | nsi M | IAWP 38 | 35 psi. |
| | A LANDING A SUN AL SUPPLIES AND ALL SUPP | Pon | <u> </u> | <u></u> . |
| 9. | Replacement Parts. Attached are Manufacturer's Partial Data Rep completed for the following items of this repo | - | ₹orm R-3s pr | operly |
| | (name of part, item number, data report type, mfr's, name and identifying stam | <u>.</u> | | |
| | | | | • |
| 10 | Remarks:Code repair applies only to shell side of condenser. Co | · do coce | 1510 É annii | £ - |
| | | Dae Case | <u>луць с-61С1</u> | es for |
| DIK | eumatic testing. | · | | |
| | | | | |
| _ | CERTIFICATE OF COMPLIANO | _ | • .1 | - · · · · · · · · · · · · · · · · · · · |
| Ĭ, _ | Joe Emerson , certify that to the best of my knowledge and be | | | |
| | d that all material, construction, and workmanship on this Repair conform to | o the Nau | onal Board III | spection Code. |
| | | expires o | on March 15 | 5, 2003 |
| Da | te January 21, 2003 AMS Mechanical Systems, Inc. Signed (name of repair organization) | /authorize | d representative) | <u> </u> |
| | CERTIFICATE OF INSPECTION | | 110/1000 | · |
| t | Gergg Bankey , holding a valid Commission issued by the National | | of Boiler and P | ressure Vessel |
| | spectors and certificate of competency issued by the jurisdiction of <u>Illinois</u> | | | and employed by |
| | HSB CT of Hartford, Con | | | have |
| ins _į | | | ne best of my l | mowledge and belief |
| | s work complies with the applicable requirements of the National Board Ins | | | |
| Ву | signing this certificate, neither the undersigned nor my employer make any | y warranty | y expressed or | |
| the | work described in this report. Furthermore, neither the undersigned nor my | y employ | er shall be liat | ole in any manner for |
| Any | ly personal injury, property damage or loss of any kind arising from or conn | nected with | th this inspecti | on. |
| | tte January 21, 2003 Signed The Bankey Commissions | s <u>NB1</u> | 2343A, IL 20 | 07 |
| | (inspector) | | | nel. Endorsements), |
| | • | T. | nd jurisdiction, an | 1d no.) . |

FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS" An required by the Provision of the ASME Code Rulen

| | Manufactured by Ca | rrier C | rporet | tion, S | racuse, | New YOLK | 13201 | Job 413 | OD6037 | |
|------------------|--|--|--|--|--|--|--|--|--|-----------|
| _ | • | | | | (Name and | I address of Ma | megatinita) | Co. Shi | ppingport, | PÅ |
| 2. | Manufactured for | DCAVCI ! | | : | (Name a | nd address of P | mepass) | | KRUTERATA | |
| ٠. | TypeO9RA070 | ring Cor | denser | essel Na | (99156 | 19.1. |) Nat | 8d. Na. 139 | LLAr. Butte | 197 |
| . : | (House of Agus) | itank, jecko | rea, Heat & | iz.) | CRITTO BOTTOL | Noil (Blace | state Re.) | į | 170.00 | 34- |
| J. | Applicable ASME Co | ېڅې ، Sectio | n IU, Edi | tionLZ | 149 , Ad | deade date | | | Case No. | -00 |
| | | | | | u | K84 | • | | | |
| lew | is 1-8 incl. to be con | spleted for | single wa | il vessels, | inckets of | jacketed vent | sels, or shells | of heat eachs | DECIS. | |
| | | - | | Nomica | 1 (| Corrosium | | | | |
| 4. | Stell: Material N | /A T.S. oc. No.) (Mi | | Thicked | essia_ | Allowsace | lo. Diafc. | ia. Length _ | (s | in. |
| _ | ં વધ ગે h મોટ્રેફ્રો | }\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | _ | _ | | _: | f: | | | |
| 5. | | <u></u> . | H.T. | - | | | | • | | % |
| | Girch N | /X | . 11.T. ' | • | R | | N | u of Courses, | | |
| | *************************************** | _ | | | , | | M. Arment M. | A' At' a uine un' bi | | |
| 6. | ticada (a) Material | H/A | T.S | | (b) Mai | erial | T. | .s | | |
| | Location | | Cruwn | Knyckle | Elliptical | Conicai | Hemi spheric | | Elde to Pre | |
| | | Thickness | Redive | Radius | Ratio | Apez Angie | Redius | Ulumatar | (Convex or Co | nceve: |
| | (a) | | | | | | | | | |
| | (") | | | | | | | | | |
| | If removable, bolts t | u sed | | | | | Other laste | niae | | , |
| | | . A : | (Material | , Savc. No. | . T.S., Elze, | | | ulriestl) | or sitech sketch | 4 |
| 7. | Jacket Closure | N/A | | <u> </u> | | Territories | | | | |
| | | | (Descri | pe es ofice | h wold, bar. Drop Weig | ote. Il bor give ht | dimensions, de Preums | ecritir in skale Lic | J | |
| | | • | | | | | fi-16 Hydroct | | C SE | |
| 6. | Design Pressure N | /Ai | | | | | | | | |
| | | rest bring. | | of at | | | | | | _ Ps |
| | | | | م | | | | | resure | P= |
| 9. | s 9 and 10 to be com | pleted for t | ube section | 5"C" | icmp. of | 25 ia. Th | "F. Sombine | uinn P | welded | _ Ps |
| 9. | Tube Sheets: Station | pleted for t | ube section is SA28 | ons. 5"C" Spec. 20.) | Dia 12. | 25 ia. Th | "F. Sombine | uinn P | | - ba |
| 9. | Tube Sheets: Station | pleted for t | ube section is SA28 | ons. 5"C" Spec. 20.) | Dia 12. | 25 in. Th | "F. Sombine | in. Accacha | rent Welded (Welded, Bolt | - Ps |
| 9. | Tube Sheers: Station Fluntin SB359 | pleted for t ary. Mater ag. Mater | ube sectional SA28 (Kind & | Spec. No.1 | Dia 12. | 25 ia. Tho press.) | rkness 1-3 | Zin. Accacha | Welded (Welded, Bolt) | |
| 9. | Tube Sheers: Station Fluntin SB359 Tubes: Material _ Co | pleted for t ary. Mater ag. Mater | ube sectional SA28 (Kind & | Spec. No.1 | Dia 12. | 25 ia. Tho press.) | rkness 1-3 | Zin. Accacha | Welded (Welded, Bolt) | zht_ |
| 9. | Tube Sheers: Station Floati SB359 Tubes: Material Co | pleted for to sary. Matering. Matering. Matering. Dispress On the Spect Res.) | ube section is SA28 (Kind & (Kind & (Kind &)) | Spec. No.) | Dia 12. | 25 in. The opress.) in. The inches or gage | ickness 1-3 | in. Actacha | rent Welded. (Welded, Soliders) rent Straight on | |
| 9. | Tube Sheers: Station Fluntin SB359 Tubes: Material _ Co | pleted for to sary. Matering. Matering. Matering. Dispress On the Spect Res.) | ube section is SA28 (Kind & (Kind &) | Spec. No.1 Spec. No.1 Spec. No.1 chambers | Dia. 135 | 25 in. The operation of the control | rekness 1 - 3 | Lin. According in. According to the confidence of the confidence o | rest Welded (Frided, Boltones) (Fredght on | ht 6, |
| 9. | Tube Sheers: Station Floatin SB359 Tubes: Material _Cr. (Kind to be Shell: Material _N | pleted for the sary. Materials. M | tial SA28 (Kind & (Kind & (Kind & (Kind &)). 748 | Spec. No.) Spec. No.) Apre. No.) Apre. No.) Nomina Thicke | Dis | 25 in. The operation of the control | rekness 1 - 3 | Lin. According in. According to the confidence of the confidence o | rent Welded. (Welded, Soliders) rent Straight on | thr 6, |
| 9. | Floation SB359 Tubes: Material Co (Kind of the laterial of the | pleted for the sary. Materials, M | tial SA28 (Kind & (Kin | Spec. No.) Spec. No.) Apre. No.) Apre. No.) Nomina Thicke | Dis | 25 in. The operation of the control | rekness 1 - 3 | Lin. According in. According to the confidence of the confidence o | rest Welded, Soliders Straight on Straight | ht 6, |
| 9. | Floating SB359 Tubes: Material Control (Kind) 18 11 to 14 incl. to be Shell: Material No. (Kind) Scams: Long No. | pleted for the stry. Materials, M | tal (Kind & Chine of received the Chine of | Spec. No.1 Spec. No.1 Spec. No.1 in. Thickr chambers Nomina Thicks | Dia. 125 Coupled to Dia | 25 in. The operation of the control | ickness 1-3 | Lin. According in. According to the confidence of the confidence o | rest Welded, Soliders Straight on Straight | ht 6, |
| 9. | Floating States States Floating SB359 Tubes: Material Care (Kind Ins. 11 to 14 incl. to be Shell: Material No. (Kind & Seams: Long No. (Weldood) | pleted for the sary. Materials, M | the section is SA28 (Kind & Kind & Ki | Spec. No.) Spec. No.) Spec. No.) in. Thickr chambers Nomina Thicks specified) | Dia. 12. (Gubject of Dia | 25 in. The opress. In. The inches or gage weasels, or contrasion Allowance. | ickness 1 - 3 hickness | in. Actacha in. Actacha c. 105 T tt exchangera tt. in. jn. l | rent Welded, Solicited Straight on Straigh | ht 6, |
| 9. | Floating SB359 Tubes: Material Control (Kind) 18 11 to 14 incl. to be Shell: Material No. (Kind) Scams: Long No. | pleted for the sary. Materials, M | the section is SA28 (Kind & Kind & Ki | Spec. No.) Spec. No.) Spec. No.) in. Thickr chambers Nomina Thicks specified) | Dia. 125 Coupled to Dia | 25 in. The opress. In. The inches or gage weasels, or contrasion Allowance. | ickness 1 - 3 hickness | in. Actacha in. Actacha c_105T tt czchangera | rent Welded, Solicited Straight on Straigh | ht 6, |
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| 9. | Flunting Sheets: Station Flunting SB359 Tubes: Material _Control _ | pleted for reserve. Materials. Ma | the section is SA28 (Kind & Kind & Ki | Spec. No.) Spec. No.) Spec. No.) in. Thicks Chambers Nomina Thicks Thicks (Yes or | Dia 12. Dia 12. Cobject of Cobject of packeted in Rule Rule Rule Rule Rule Rule Rule Rule | 25 in. The operation of the contract of the co | Number of her in. Din. | in. Actacha in. Actacha c. 105. T tt exchangera fliciency an of Courses faceral from | T.S. Side to Personal Convert of | in. |
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| 9. | Flunting Flunting SB359 Tubes: Material _Cr (Kind in it is 11 to 14 incl. to be Shell: Material _N (Kind is is 11 to 14 incl. to be Shell: Material _N (Kind is is 11 to 14 incl. to be Shell: Material _N (Kind is is 11 to 14 incl. to be (Kind is is 11 to 14 incl. to be (Kind is is 11 to 14 incl. to be Shell: Material _N (Kind is is is 11 to 14 incl. to be Shell: Material _N (Welded Girth Heads: (a) Material Location (b) Channel (c) Floating If removable, bolts is (Material) | pleted for reary. Materiary. Mate | the section of Kind & (Kind & Kind & (Kind & Kind & | Spec. No.) Spec. No.) Spec. No.) in. Thickr chambers Nomina Thicks specified) (Yea or (Yea or Knuckte Radius | Dia. 12. (Gubject of packeted | 25 in. The operation of the control | rekness 1 - 3 hickness | in. Actacha in. Actacha in. Actacha r. 105 T at exchangera it exchangera it exchangera it fastening it fastening it fastening it fastening attach | T.S. Side to Personal Converse | in. |
| 9. 10. 11. | Flunting SB359 Tubes: Material _CA (Kind in 11 to 14 incl. to be shell: Material _N (Kind & in 12 to 14 incl. to be shell: Material _N (Kind & in 12 to 14 incl. to be shell: Material _N (Welded & in 12 to 14 incl. to be Girth Heads: (a) Material _Location (a) Top, bottom, and (b) Channel (c) Floating If removable, bolts in | pleted for reserve. Materiary. Ma | the section of the se | Spec. No.) Spec. No.) Spec. No.) in. Thicks Chambers Nomina Thicks Thicks (yes or Knuckte Radius 10 SA44 Number) | Dia. 129 (Gubject to Coubject | 25 in. The opress. In. The inches or gage weasels, or contract Apra Angle Apr | ickness 1-3 hickness 1-3 hickne | in. Actacha in. I | T.S. Side to President of the property of the president | in. |

| | to profit | ्रेंगिकित्र तन पर ंसं∗ | FORM N | -1 (beca. | | vinte to the state of the stat | • |
|--|--|--|---|--------------------------------------|---------------------|---|---------------------------------------|
| icas belovita hawaii | leted for all | vessels where | applicable. | | 31.1: | | |
| 15, Safety Valve Hade 16, Nouzlea Purpuse Hale Outlet, Order | • | Dia de Sico | Transit ? | Location, Location, Meterial SAD3 | Tuckase | Reinforcement | Weller Bolted |
| Inlet | | | | | .30" | Inherent | Welded/Bolted |
| Drains/K4sc. | 2/2 | 3/8"FPT | Pipe Cstg. | SA53. SB61 | .50" | Inherent | Threaded |
| 17. Inspection Manhale | s, No | Size | I.ocatio | a | | | |
| Openings: Handho | les, No | Size | Locatio | a | | | |
| Thread | ed, No | Size | Locatio | a | | | |
| 18. Supports: Skirt (Y- | | | | | | | |
| 19. Remarks: AS | ME code | Section III | tube si | de only. | Leagth 106" | 0.A. x 12.7 | 5" D. |
| <u>Su</u> | err side | ASME code | Section | ATIT ber W | .B. 137110 | | · · · · · · · · · · · · · · · · · · · |
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| | | (Brief description | on of service fo | or which vessel w | rae designed) | | |
| | | CE | RTIFICATI | ON OF DESIG | Ň | | |
| Design information of | n file at | Carrier Co | rporation | a, Syracus | e, New York | | |
| Strens enalysis repo | rt en file of | N/A | | | | | |
| Dratga språllitation | eculfied by | William J | Axt, Jr | | Prof. Bag. State | PA. Reg. No | 15699-B |
| Orrino analysis copo | ······································ | Anton K. | Bognoss:a | in | Prof. Eng. State | Reg. No | 19251-E |
| We certify that the | Biniements | made in this res | ou are corre | ct and this this | aucteur ressel | conforms to the ru | les of construc- |
| tion of the ASMF Code. | Section III. | ~78 C | Carrier Co | proretion | and | 1 - Second | Le · |
| Date July 14 | | 78 Signed. | (Manuf | eaturer) | - By | A | |
| Certificate of authoriza | ttion Expire | , August | 6, 1979 | | Certificate of | Authorization No. | 1508 |
| 6-35148 | | r | . 25 | e: w | 0435.75 | | |
| VESSEL MADE BY | Carri | CERTH er Corporat | FICATE OF | SHOP INSPE | ČTION Syracu | se, New York | |
| t, the understand his | | | | | | | dor the State |
| tiave inspected the pro- state that to the best Code, Section III. | ssuic vessel at my know! | described in this ladge and belief. | Maquincturer ^j s the Manufactur | Duta Report on_ er has constructe | d this pressure ve | | .19, and with the ASME |
| By signing this cortil | Yeure heliner | the Inspector no | r his employer | r makés any wéi | ronty, expressed o | r Implied, concernia | g the pressure. |
| vessel described in t | of blobeith q | mers Dets Kepor Amage of a loss o | t. Purmormore I say kind wis | ing from or cooks | cted wita this inc | peotion. 1 .4 | to eay manner |
| Dete | 19/8 | | <u> </u> | | MB8131 by 1 | BD WC 2561 | |
| - Quit 1 | ctor's Signatu | year. | | miesloos | OHIO COMMI | | |
| | | Jack L. | Shampine | } | Noticell Belle, | State, Province and | No. |
| | | CERTIFICAT | | | | | |
| I, the undersigned, h | olding a valid | commission issu | ed by the Natio | onal Board of Bei | les and Pressure 1 | /casel inspectors as | d/or the State |
| have compared the st | etemente la | and employed by Mr Meaufecturer | e Date Report | with the describe | d presure resset | and state that norte | referred to an |
| data Items force inspected by me set on accordance wit | and that to th | e best of my know Code, Section III | ledge and bell | of the manufactur | t included in the c | ertificate of shop to | ressure vex- |
| Present Test of | his Manufect | urer's Duta Repor | rt. Furthermore | , neither the lass | ector nor his empi | oyer shall be liable | f the pressure |
| Dec | | _ 19 | · | | , t | • | |
| Inspe | ctor's Signst | ite . | Com | missions | Nettonal Board, S | itate, Province and I | Yu. |
| | | | | | | - | |

| FORM U.1 MA | inufacturers' | DATA-REPORT FOR | PRESSURE VESSELS |
|------------------|--------------------|--------------------|--------------------------|
| As Required by t | he Provisions of t | he ASME Cadé Rules | Section VIII, Division 1 |

| CAPPI | | | | | |
|--|---|--|---|--|--|
| . Manufactured by | IER CORFORATION | SYRACUSE, NEW YORK | 13221 Job N | o. 4130D6037 | The state of the s |
| Manufactures for | ver Valley Po | ver Station Value | | sue Light Co. | Picceburgh, PA |
| Location of installation | caver Valley | Power Sta, Unit | No. 2. Shippi | ngport, PA | 3.5 |
| Type D98A Condense: | | 9915689 | SO 5525 | | ear Bullt1978 |
| ptoric, or ours tan The chemical and physical | (R) | Ruligi's Serial No.1 | CRNI (Drawid s of material specific | | OILER AND PRESSURE |
| VESSEL CODE. The design, | | | | | 74 and Addenda to |
| and Coc | da Casa no 1518 | -1 Special service | e per UG-120(d) N | o Special Service | |
| Manufacturers' Partial Data | | | Commissioned Insp | ectors have been furn | ished for the following |
| tems of the report: None | | (Name of part, item num | | | |
| | | | | | |
| ms 6-11 incl. to be complete | | | | | |
| Shell: Material SAS3"B" | | ess . 37.5n. Corrosion A | | | |
| Seams: Longitudinal | Seamlea. Walded. Dbl . Sag | ji., Cap. Butti R.T. | (Spot or will) | Efficiency 100 % | · · · · · · · · · · · · · · · · · · · |
| ne - Girth | · · · · · · · · · [Weided | Obt., Dogt., Leg. Buti) | R.T. | (Spot, Partial or Full) | of Courses 1 |
| Heads: (a) Material N/ | A | Gradal | (b) Material | | |
| | | | | (Spec. No., C | |
| (Top, Bottom, Ends) | Minimum Thickness | Corresion Allowance | Grown Radius | Knuckie Redius | Elilpticsi Ratio |
| a) | | | | | |
| ы | | <u> </u> | | | |
| Conical Apex Angle | | Hemispherical Radius | .Flat Dismeter | | ide to Pressure nvex or Concave) |
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| | tescribe other faster | ningsl | | | |
| If removable, bolts used to | | nings) | | ic No. Gr. Size. No.) | |
| If removable, bolts used to Type of Jacket Jacket Closure | n/a n/a | If bar, give dimensio | Proof Test | | ited, describe or sketch |
| If removable, bolts used to Type of Jacket Jacket Closure (Describe a | N/A N/A as ogos & weld, bar, et | If bar, give dimension | Proof Test | If bo | |
| If removable, bolts used to Type of Jacket Jacket Clocure (Describe a | N/A N/A as ages & weld, bar, et wable working press | If bar, give dimensions and the state of the | Proof Test | | |
| If removable, bolts used to Type of Jacket Jacket Closure (Describe a Constructed for mex. allow Hydrostatic pneumatic, or ms 12 and 13 to be complete | N/A N/A ss oges & weld, ber, et wable working press combination test p | If bar, give dimensions ture 385 ps: et max. pressure 482 ps: | Proof Test ins temp. 300 F (| lf bo Min. tomp. (when less | than -20 F) 1 |
| If removable, botts used to Type of Jacket Jacket Clocure Describe a Constructed for max. allow Hydrostatic pneumatic, or ms 12 and 13 to be complet Tubesheets Stationary—A | N/A N/A ss ogeo & weld, ber, et wable working press combination test p tod for tube sections Material SA265*C | If bar, give dimensions at the second | Proof Test ins temp. 300 F (| lf bo Min. tomp. (when less | than -20 F) 1 |
| If removable, bolts used to Type of Jacket Jacket Closure (Describe a Constructed for mex. allow Hydrostatic pneumatic, or ms 12 and 13 to be complete | N/A N/A so ogeo & weld, ber. et wable working press recombination test p lod for tube sections Material SA285*C Sape Attachment Weld | If bar, give dimensions at the second | Proof Test ins temp. 360 F I 12.25 Subject to pressurel | lf bo Min. temp. (when less Nominal Thickness | |
| If removable, bolts used to Type of Jacket Jacket Clocure Constructed for max allow Hydrostatic pneumatic, ed ms 12 and 13 to be complet Tubesheets Stationary—A Allowance .039 in. | N/A N/A So ogen & weld, bar, et wable working press combination test prod for tube sections Material SA285** Attachment Weld Welder in, Corresion A | If bar, give dimension of the second | Proof Test ins temp. 360 F I 12.25 Subject to pressure inerial | If bo Min. temp. (when less Nominal Thickness sc. No., Grede) | than -20 F) 1 1.32 in. Corrosio Diam in |
| If removable, bolts used to Type of Jacket Jacket Clocure Describe a Constructed for mex. allow Hydrostatic pneumatic, et ms 12 and 13 to be complet Tubesheets Stationary—A Allowance .039 in. Nominal Thickness — Tubes: Material SE359 | N/A N/A ss ogen & weld, ber, et wable working press recombination test p tod for tube sections Material SA285** Same Attachment Weld in, Corrosion A Copper O.D. | If bar, give dimension of the control of the contro | Proof Test ins temp. 300 F I 12.25 Subject to pressure interial | If bo Min. temp. (when less Nominal Thickness ac. No., Grade) age Number 105 | than -20 F) (|
| If removable, bolts used to Type of Jacket Locure (Describe a Constructed for mex. allow Hydrostatic pneumatic, or ins 12 and 13 to be complet Tubesheets Stationary—Allowance .039 in. (Nominal Thickness, Tubes: Material .S8359 (Specims 14-17 Incl. to be completed) | N/A N/A ss oges & weld, bar, et wable working press r-combination test p tod for tube sections viaterial SA285** Attachment Weld in, Corrosion A Copper O.D No., Gr.) ered for kneer chamb | If bar, give dimension of jacketed vessels of jacketed varieties. If bar, give dimension of the part of jacketed vessels of j | Proof Test ins temp. 300 F I 12.25 In. Subject to pressure interial (Spe Attachment iess035 In. or gau ir channels of heat ex | If bo Min. temp. (when less Nominal Thickness ac. No., Grede) age Number 105 achangers. | than -20 F) in. Corrosio Diam in Type _ Straight of U.1 |
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| If removable, bolts used to Type of Jacket Jacket Jacket Jacket Jacket Gooden (Describe a Constructed for mex. atlow Hydrostatic pneumatic, et ms 12 and 13 to be complet Tubesheets Stationary—A Allowance .039 in. A Nominal Thickness — Tubes: Material SE359 (Specims 14-17 incl. to be completed, Shell; Material N/A (Specimo, 1990). | N/A N/A ss oges & weld, bar, et wable working press recombination test p tod for tube sections Material SA285**C Spe- Attachment Weld in, Corression A Copper O.D No., Gr.) ered for inner chamb Or.) Mominal Thicknes | If bar, give dimension into 385 ps; at max, pressure 482 ps; see the control of t | Proof Test ins temp. 300 F I 12.25 In. Subject to pressure interial Spe Attachment less . 035 in. or gau ir channels of heat ex flowance in. D | If bo Min. temp. (when less Nominal Thickness ac. No., Grede) age Number 105 achangers. | than -20 F) in. Corrosio Diam in Type _ Straight of U.1 |
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| If removable, bolts used to Type of Jacket Jacket Clocure Constructed for mex. allow Hydrostatic pneumatic, or Is and 13 to be complet Tubesheets Stationary—A Allowance .039 in. Nominal Thickness Tubes: Material SE359 ISpectors 14-17 Incl. to be complet Shelt: Material N/A ISpect No. (Spect No. (Spect No. (Welded, Heads: (a) Material Location (Top. Bottom, Ends) (a) | N/A N/A as ogen & weld, ber, et wable working press recombination test p lad far tube sections Material SA265**C Attachment Weld (Worde in, Corrosion A Copper O.D. Na. Gr.) eted far inner chamb (Nominal Thicknes Gr.) I/A ided, Dbl., Sngl. Lap & Dbl., Sngl., Lap & (Spec. N Minimum | If bar, give dimension in the state of the s | Proof Test ins temp. 360 F I 12,25 In. Subject to pressure inerial (Spe Attachment less . Q35 In. or gau ir channels of heat ex flowance In. D (Spot. Partial. (b) Material Crown Radius | If both Min. temp. (when less Nominal Thickness no. No., Grade) no | than -20 F) f 1. 32 . in. Corrosio Diam fo TypeStratght f CStratght of f Length f F Time No. of courses . Ge.) Elliptical flatio |
| If removable, botts used to Type of Jacket Jacket Clocure Constructed for mex. allow Hydrostatic gneumatic, et ms 12 and 13 to be complet Tubesheets Stationary—A Allowance .039 in. Nominal Thickness I, Tubes: Material SE359 ISpectors 14-17 incl. to be complet I, Shelt; Material N/A ISpect No. (Spect No. (Spect No. (Spect No. (Welded, Steads: (a) Material Location (Top. Bottom, Ends) (a) (b) Conical | N/A N/A as ogen & weld, ber, et wable working press recombination test p lad far tube sections Material SA265**C Attachment Weld (Worde in, Corrosion A Copper O.D. Na. Gr.) eted far inner chamb (Nominal Thicknes Gr.) I/A ided, Dbl., Sngl. Lap & Dbl., Sngl., Lap & (Spec. N Minimum | If bar, give dimension of the second of the | Proof Test ins temp. 300 F I 12.25 In. Subject to pressure! Interial | If both Min. temp. (when less Nominal Thickness no. No., Grade) no | than -20 F) f 1.32 in. Corresio Diam fe Type <u>Strateht</u> (Streight of 'U') Length ft f _F Time No. of coursesGr.) Elliptical Ratio |

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| | 4 12 2 12 3 | ij. | LEOR. | MILT BACK | MICHAEL NIN I | 39116 | * |
| 17. Constructed for max | allowable work | inu pressure | _NA S | is st max temp | F. Min. to | mp. (when less than - | 10 F) |
| Hydrostatic, pneuma | tie. Ar combinat | on test press | ura | cisi. | • | • | |
| Koms below to be compl | oted for all vess | els where ap | alicable | | * *** | | |
| 16. Bafety Valve Outlets: | Number: | | Ska | 50: | See Location :- | Shell. | |
| 19. Nozzies: | and a second of the second | | | - | | | |
| | <u> </u> | * | , | * * * * * | | | |
| Purpase | | Diam. | | | Nominal | Reinforcement | How |
| (Inlot, Outlet, Drain) | Number | or Size | Туре " | Material | Thickness | Material | Attached |
| Inlet | Ţ | 3.12 00 | | SB43 | .28" | Inderent | Brazed |
| Outlet | 1 | 1.25 | Pipe | SA53 | ,19 ⁿ | Inherent | Welded |
| Drain | -1 | .75 FPT | Cplg. | SA105 | .42" | Inherent | Welded |
| 20. Inspection Openings | <u> </u> | | L | L | <u>L</u> | | |
| filantioles No | _ | Size | • | Locat | ion | | |
| Handholes No | | | | • | | | |
| | | Size | | | ion | | ··· |
| Threaded No | lo Luce 0 | | 0.4 | | | | to shell |
| Yes (| or not | Legs | No.) | Ø. | ecdba) | (Where | and how) |
| 22. Romarks: ASME | code Sect | ion VIII | Shell | side only | Length 85" | r 12.75 dia. | |
| | Refrigera | nt 22 T | ube side | e ASMR code | Section III | per NB 139117 | |
| | * Par | a. UG25 (| a) | | | | |
| | | | CEDTICIC A | TE OF COMP | HANCE | | |
| | | | | | _ | • | |
| | | | | | - | l, construction, and wo | rkmanship of thi |
| vessel conform to the | | | | in Vill, Division 1 | | 1 -11 11 | , |
| Date _7/14/78 | Signed _CA | RRIER CORP | ORATION | | by | the North | <u> </u> |
| l | | • | [Manufactus 701 | 60 | | (Representative) February 28 | 80 |
| "U" Certificate of Auth | iorgation No | | | | expires | t Column La | 19_80 |
| | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | | E 18 | | |
| | | CE | RTIFICATE | E OF SHOP IN | SPECTION | - | |
| Vessel made by | ARRIER CORP | DRATION | - | • | SYRACUSE, NE | W YORK | |
| | | | | | · | | |
| I, the undersigned, no | ioing a valid co | mmission iss | neg by the | Mational Roato | of Holler and Pressu | re Vessel Inspectors at | noor the State (|
| Province of New York of Hartford, Conn. | | | | and employ | ed by The Loudon | Steam Boiler I & I Co. | /10 |
| | | | | | | sta Report ca7/12/ | |
| | | wiedge and b | elief, the M | fanufacturer has | constructed this pr | ezanie hezael ju socolo | Jance With ASM |
| Code, Section VIII, Div | ision.1. | | | 1 | | | |
| By signing this confife | oto anither the i | nenador nor | hie.emaloue | ar makas anu wa | reacht average of or | implied, concerning th | i |
| | | | | | | or shall be liable in an | |
| | | | | | | | A tiišinier tot st |
| personal injury or pro | A 72 | | | | • | - | |
| | 310, | N | | • | NB0131,1 | A BD WC 2561 | |
| Signed Fail | The same of | magain | | Commissio | neOHTO_CQ\ | MISSION Posid, State, Province and | No. |
| | (arabactor) | | | | | | 401 |
| | | CERTIFIC | ATE OF C | Ompliance i | OR FIELD WORK | | |
| We certify that the sta | itements made i | | | | | of construction, and wo | rkmanshin of st |
| vessel conform to the | | | | | | or adiamenated wild Mr. | ······································ |
| 1 | | | | | | | |
| Date | | hise | (Ma | inufacturer) | оу | (Be)résentativ | <u>a</u> |
| 1 | 10 1 12 12 | | | | | | |
| in. ceutilicate of Vri | MONESHON NO | | | | exoires | | 19 |
| "U" Certificate of Aut | monzation No | | | | expires | | , 19 |
| "O" Certificate of Aut | monzeton 140. | | | | | | , 19 |
| | | CERTIFIC | CATE OF | FIELD ASSEM | BLY INSPECTION | | , 19 |
| I, the undersigned, h | olding a valid co | CERTIFIC | CATE OF I | FIELD ASSEM | BLY INSPECTION of Boller and Press | ura Vessel Inspectors a | nd/or the State |
| I, the undersigned, h | olding a valid co | CERTIFIC | CATE OF I | FIELD ASSEM | BLY INSPECTION of Boller and Press | ura Vessel Inspectors a | nd/or the State |
| I, the undersigned, he Province of | olding a valid co | CERTIFIC | CATE OF I | FIELD ASSEM | BLY INSPECTION of Boiler and Press | ura Vessel Inspectors a | ndfor the State |
| I, the undersigned, he Province of | olding a valid co | CERTIFIC | CATE OF I | FIELD ASSEM! National Board and employ statements in t | BLY INSPECTION of Boller and Press red by | ure Vessel Inspectors a | ndfor the State |
| I, the undersigned, he Province of | olding a valid co | CERTIFIC Demmission is: have cooperated as data item. | CATE OF I | FIELD ASSEMS National Board and employ statements in t | BLY INSPECTION of Boller and Press yed by | ure Vessel Inspectors a Data Report with the di | nd/or the State |
| I, the undersigned, he Province of | olding a valid co parts referred to se and that, to the | CERTIFIC Demmission is: have contained the dest of my | CATE OF I | FIELD ASSEM! National Board and employ statements in t | BLY INSPECTION of Boller and Press yed by | ure Vessel Inspectors a | nd/or the State |
| I, the undersigned, he Province of | olding a valid co parts referred to se and that, to the | CERTIFIC Demmission is: have contained the dest of my | CATE OF I | FIELD ASSEM! National Board and employ statements in t | BLY INSPECTION of Boller and Press yed by | ure Vessel Inspectors a Data Report with the di | nd/or the State |
| I, the undersigned, he Province of | olding a valid co parts referred to be and that, to the with ASME Cod | CERTIFIC COMMISSION IS: have commission is: have commission is: have commission is: have commission is: have commission is: | CATE OF I | FIELD ASSEM! National Board and employ statements in t e and belief, the | BLY INSPECTION of Boiler and Press yed by | ure Vessel Inspectors a Data Report with the di | nd/or the State |
| I, the undersigned, he Province of of vessel and state that been inspected by messel in accordance. The described vessel | parts referred to be and that, to the with ASME Cod | CERTIFIC Demmission is: have contained the best of my le. Section VIII | CATE OF I sued by the impared the ins y knowledge it, Division 1 | FIELD ASSEM! National Board and employ statements in t e and belief, the | BLY INSPECTION of Boiler and Press yed by | ure Vessel Inspectors a Data Report with the d In the certificate of shor constructed and assemi | nd/or the State escribed pressure inspection, has bled this pressure |
| I, the undersigned, he Province of of vessel and state that been inspected by m vessel in accordance. The described vessel by signing this certi | parts referred to parts referred to se and that, to the with ASME Cod was inspected a | CERTIFIC Demmission is: have contained the best of myle. Section VIII | CATE OF I sued by the impared the ina y knowledge it. Division 1 I to a hydro nor his emp | FIELD ASSEM! National Board and employ statements in t e and belief, the | BLY INSPECTION of Boiler and Press yed by | ure Vessel Inspectors a Data Report with the de In the certificate of short constructed and assemble | nd/or the State escribed pressure inspection, har bled this pressure ining the pressure. |
| I, the undersigned, he Province of of vessel and state that been inspected by m vessel in accordance. The described vessel by signing this certivessel described in the province of | parts referred to parts referred to be and that, to it with ASME Cod was inspected a ficate neither th | CERTIFIC Description is: have contained as data item the best of my the Section VII and subjected the Inspector of the Section of the contained as the conta | CATE OF I sued by the impared the is y knowledge it. Division 1 I to a hydro nor his emp ort. Further | FIELD ASSEM! National Board and employ statements in the and belief, the static test of | BLY INSPECTION of Boiler and Press yed by | ure Vessel Inspectors a Data Report with the de In the certificate of short constructed and assemble sed or implied, concent employer shall be liab | nd/or the State escribed pressure inspection, har bled this pressure ining the pressure. |
| I, the undersigned, he Province of of vessel and state that been inspected by m vessel in accordance. The described vessel by signing this certi | parts referred to parts referred to be and that, to it with ASME Cod was inspected a ficate neither th | CERTIFIC Description is: have contained as data item the best of my the Section VII and subjected the Inspector of the Section of the contained as the conta | CATE OF I sued by the impared the is y knowledge it. Division 1 I to a hydro nor his emp ort. Further | FIELD ASSEM! National Board and employ statements in the and belief, the static test of | BLY INSPECTION of Boiler and Press yed by | ure Vessel Inspectors a Data Report with the de In the certificate of short constructed and assemble sed or implied, concent employer shall be liab | nd/or the State escribed pressure inspection, har bled this pressure ining the pressure. |
| I, the undersigned, he Province of of vessel and state that been inspected by messel in accordance. The described vessel By signing this certivessel described in the for any personal injunction. | parts referred to parts referred to be and that, to it with ASME Cod was inspected a ficate neither th | CERTIFIC Description is: have contained as data item the best of my the Section VII and subjected the Inspector of the Section of the contained as the conta | CATE OF I sued by the impared the is y knowledge it. Division 1 I to a hydro nor his emp ort. Further | FIELD ASSEM! National Board and employ statements in the and belief, the static test of | BLY INSPECTION of Boiler and Press yed by | ure Vessel Inspectors a Data Report with the de In the certificate of short constructed and assemble sed or implied, concent employer shall be liab | nd/or the State escribed pressure inspection, har bled this pressure ining the pressure. |
| I, the undersigned, he Province of of vessel and state that been inspected by messel in accordance. The described vessel By signing this certivessel described in the for any personal injurial. | parts referred to the and that, to the with ASME Code was inspected a fricate neither that this Manufacture try or property d | CERTIFIC Demmission is: have contained the best of my le. Section VII and subjected the inspector of the ins | CATE OF I sued by the impared the is y knowledge it. Division 1 I to a hydro nor his emp ort. Further | FIELD ASSEM! National Board and employ statements in the and belief, the static test of | BLY INSPECTION of Boiler and Press yed by | ure Vessel Inspectors a Data Report with the de In the certificate of short constructed and assemble sed or implied, concent employer shall be liab | nd/or the State escribed pressure inspection, has bled this pressure ning the pressure le in any mann |

| Form No. | 1616 |
|------------|------|
| FORIH ING. | מומנ |

| 1. Owner | First Energy | | Da | te | 10/07 | 7/2003 | |
|-------------------------------|---|--|-----------------------|--|---------------|------------------------|------------------------|
| 76 South M | Main Street - Akro | on, OH 44308 | Sh | eet1 | o | · | 2 |
| 2. Plant | Beaver Valley Po | ower Station | Un | it No. | | 2 | |
| | Shippingport, PA | 15077 | | Order #200027711 Repair/Reptacement | | | |
| 3. Work Perform | med By AMS N | Techanical Syste | em, Inc Ty | pe Code Symbol | Stamp | | 'R" |
| | (ADDRESS) | ve, Burr Ridge II | | thorization No piration Date _ | | | 06 |
| 4. Identification | n of System | Service Water | (Class 3) | | | · | |
| (b) Applicable (c) Applicable | Construction Code _ e Edition of Section X e Section XI Code Ca n of Components | l Utilized for Repair se(s): <u>N/A</u> | · | n, Addenda, (:1989 | N-68, 1634 | <u>-1</u> Code Cas | e |
| | | | | | | Corrected, Removed, | ASME Code |
| Name of Component | Name of Manufacturer . | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | or Installed | Stamped (Yes or No) |
| Condenser | Carrier Corp. | 9915690 | 139119 | 2HVC-CND24B | 1978 | Corrected | Yes |
| Tube-sheets | Energy & Process Corp. | N/A | N/A | Ht #2103014 | 2002 | Installed | No |
| Tubes | Energy & Process Corp. | N/A | N/A | Lot #1 | 2002 | Installed | No |
| | | | | | | | |
| | | | | | | | |
| 7. Description | of Work Repl | aced the heat e | exchanger tube | sheets and tubes | . | | |
| 8. Tests Cond | lucted: Hydrost | atic 🛛 Pneu | | ninal Operating P | | | npt 🔲 |

| 9. Remarks Code Data Reports attached. AMS Mechanical Systems (Preferred Metal Technologies) |
|---|
| Applicable Manufacturer's Data Reports to be attached replaced the tubes and tube-sheets with material purchased as ASME III Class 3 by FENOC under |
| |
| P.O. #7106761. The condenser tube side was designated/built to ASME Section III Class 3, while |
| The shell side was ASME Section VIII (Natl. BD #139118). Shell pneumatically tested to 423 psig. |
| The Shell side was Advice decitor vin (val. DD #105110). Onen priedifiationly tested to 425 psig. |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration DateN/A |
| |
| Signed Will Swip Eg. Date November 12, 20 03 |
| |
| 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of |
| Hartford, Connecticut have inspected the components described in the |
| Owner's Report during the period $5-12-03$ to $11-12-03$, 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. |
| |
| Dean S. hymbe commissions I, N. PA 2384 |
| Insgretor's Signature National Board, State, Province, and Endorsements |
| Date 11-12- , 20 03 |

FORM R-1 REPORT OF WELDED REPAIR

In accordance with provisions of the National Board Inspection Code

Preferred Metal Technologies Project: Beaver Valley P.O. #: 7121907 PAGE (

| | • |
|---|---|
| 1. Work performed by <u>AMS Mechanical Systems, Inc.</u> | 7 |
| (name of repair organization) | (Form R No.) |
| 140 East Tower Drive, Burr Ridge, IL 60527 | 7107643 (P.O. No. Job No. etc.) |
| 2. Owner First Energy Corporation | (F.O. 140. 300 IA. cm.) |
| (name) | |
| 76 South Main Street, Akron, OH 44308 | |
| (address) | |
| 3. Location of installation Beaver Valley Power Station (name) | |
| Route 168, Shippingport, PA 15077 | |
| (address) | · · |
| 4. Unit identification <u>Condenser</u> Name of original manufacturer <u>(boiler, pressure vessel)</u> | Carrier Corporation |
| 5. Identifying nos.: 9915690 139118 - | - 1978 |
| (mfg serial no.) (National Board No.) (jurisdiction no.) | (other) (year built) |
| 6. NBIC Edition / Addenda: 2001 200 | - na |
| (edition) | (addenda) |
| Original Code of Construction for Item:ASME Section VIII Div. 1 | 1974/- |
| (name/section/division) | (edition/addenda) |
| Construction Code Used for Repair Performed: ASME Section VIII Div. | . 1 2001/2002 |
| | (edition/addenda) |
| 7. Repair Type: Welded Graphite Pressure Equipment | FRP Pressure Equiperant |
| 8. Description of Work: Replaced (2) tubesheets (SA-516 Grade 70) and (1 | 110) |
| (use supplemental sheet, Form R-4, if necessary) | |
| condenser tubes (SB-359). | |
| Pressure Test, if applied Pneumatic 423 psi. | MAWP 385 psi |
| | |
| 9. Replacement Parts. Attached are Manufacturer's Partial Data Reports of | or Form R-3s properly |
| completed for the following items of this report: | |
| | |
| (name of part, item number, data report type, mfr's, name and identifying stamp) | |
| - / / | |
| 10. Remarks: Code repair applies only to shell side of condenser. Code ca | ase 1518-5 applies for |
| pneumatic testing. | |
| | <u>;-</u> |
| CERTIFICATE OF COMPLIANCE | |
| I, <u>Joe Emerson</u> , certify that to the best of my knowledge and belief t and that all material, construction, and workmanship on this Repair conform to the N | |
| National Board "R" Certificate of Authorization No. R-5525 expire | |
| Date May 22, 2003 AMS Mechanical Systems, Inc. Signed | |
| | rized representative) |
| CERTIFICATE OF INSPECTION | A SP all and Program Versal |
| I, <u>Todd Ward</u> , holding a valid Commission issued by the National Box Inspectors and certificate of competency issued by the jurisdiction of <u>Illinois</u> | ard of Botter and Pressure Vessel and employed by |
| HSB CT of Hartford, Connectic | |
| inspected the work described in this report on May 22, 2003 and state that to | o the best of my knowledge and belief |
| this work complies with the applicable requirements of the National Board Inspection | on Code. |
| By signing this certificate, neither the undersigned nor my employer make any warranteers. | |
| the work described in this report. Furthermore, neither the undersigned nor my emp | |
| Any personal injury, property damage or loss of any kind arising from or connected Date May 22, 2003 Signed Commissions | |
| | 104/104 |
| (inspector) | (National Board (incl. Endorsements), |

| Form No. 1619 | 3 |
|---------------|---|

| 1. Owner _ | First Energy | | - | Date <u>12-02-03</u> | | | |
|----------------------|---|----------------------------|--------------------------|---|-----------------|---|---|
| 76 South | Main Street - Akı | | | Sheet 1 of 2 | | | |
| 2. Plant | Beaver Valley F | Power Station | | Unit No. 2 | | | - |
| | Shippingport, P (ADDRESS) | A 15077 | · | ECP-02-0006-02, V Repair/Replacement | | | |
| 3. Work Per | rformed By BVPS | Construction (NAME) | | Type Code Symbol | Stamp | N | <u>'A</u> |
| | Shippingport, P | A 15077 | ; | Authorization No | | N/A | |
| | (ADDRESS) | | | Expiration Date _ | | | |
| 4. Identifica | tion of System _ | Service Water | (Code Cla | ss 3) | , | | |
| 5. (a) Applica | able Construction Code | ASME Se | ction III 1 | 9 <u>71</u> Edition, <u>Wi</u> | nter '72 | Addenda, | |
| (b) Applic | able Edition of Section able ASME XI Code Ca ation of Component | se(s) N-416-2 | rs or Replace | ments1989 | | | |
| | | | | | | | |
| 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 | Walworth Co. | N/A | N/A | 2SWS-482 | 1987 | Removed | Yes |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 7. Descripti | on of Work <u>This</u> | s ECP removed | 2SWS-482 | <u>.</u> | | 1 | |
| 8. Tests Co | onducted: Hydro: Other [| Pressure | | Nominal Operating F perating | Pressure psi | | pt 🗌 |

| 9. Remarks |
|---|
| Applicable Manufacturer's Data Reports to be attached |
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| |
| OFFICIATE OF COUNTAINS |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, |
| Section XI. |
| Section Al. |
| Type Code Symbol Stamp Per 1/2 ADM-0801, "ASME XI Repair/ Replacement Program" |
| Type code Cymbol Camp Tol DE Cam Cod II Cam |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| |
| Says & Make |
| Signed Sanjib K. Mukherjee / Date 2/2, 20 0 3 |
| 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 Pennsyllvania and employed by HSB-CT of |
| Hartford, Connecticut . have inspected the components described in the |
| Owner's Report during the period $\frac{12 \cdot 10 - 03}{12 \cdot 12 \cdot 13}$ to $\frac{12 \cdot 12 \cdot 03}{12 \cdot 12 \cdot 13}$, 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. |
| \sim . Ω |
| \wedge |
| weam S. Kymp Commissions I, N. 142384 |
| Inspector's Algnature National Board, State, Province, and Endorsements |
| |
| 20 CM M D |
| Date $\frac{12-12-}{2003}$ |

| _ | | | |
|------|-----|------|--|
| Form | No. | 1625 | |

| 1. Own | | Energy ME) | | Dat | te | 10/10 | /2003 | |
|---------------|--------------------|------------------------------|----------------------------|-----------------------|-------------------------|------------------------|---|--|
| <u>76 S</u> | South Main Str | <u>eet – Akro</u> DORESS) | n, OH 44308 | She | et <u>1</u> | of | | <u> </u> |
| 2. Plant | | Valley Po | wer Station | Uni | t No. | | 2 | |
| | | ngport, PA | 15077 | <u> </u> | 2 Repair/Replacement | 000275 Organization | | o., etc. |
| 3. Work | (Performed By | FENO | C-Construction (NAME) | Serv. Typ | e Code Symbol | Stamp | | VA. |
| | Shippir | ngport, PA | 15077 | Aut | horization No | | N/A | |
| | | DDRESS) | | | piration Date | | | |
| | | _ | | | | | | • |
| 1. Ident | ification of Sys | stem | Service Water | (Class 3) | | | | · |
| 5. (a) A | oplicable Construc | tion Code _ | Section II | I 19 71 Edition | n, <u>W72</u> Ad | denda, _ | Code Ca | ise |
| | - | | | s or Replacements | | - | | • |
| (c) A | pplicable Section | XI Code Cas | se(s): <u>N-416-1</u> | | | | | , |
| 6. Ident | ification of Co | mponents | | | | | | |
| | | | | | | | | |
| Name Compo | | urne of ufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Buik | Corrected, Removed, or fastalled | ASME Code Stamped (Yes or No) |
| • | nent Man | | | | | | Removed, or | Code Stamped |
| Compo | nent Man | ufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) |
| Compo | nent Man | ufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) |
| Compo | nent Man | ufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) |
| Compo | nent Man | ufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) |

| 9. Remarks No Code Data Report for material. |
|---|
| 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 rules of the ASME Code, |
| Section XI. |
| |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| |
| Signed Septer Eng. Date October 13 , 20 03 |
| 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 CT of |
| Hartford, CT. have inspected the components described in the |
| Owner's Report during the period $10-14-03$ to $10-24-03$, 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. |
| |
| |
| Vear S. hywh Commissions I, N, PA 2384 |
| National Board, State, Province, and Endorsements |
| |
| Date 10-24- , 20 03 |

| Form t | No. | 1643 |
|--------|-----|------|

| | | | | | | _ _ | | |
|---------------------------------|-------------------------------|----------------------------|---------------------------------------|-----------------------|--------------------------|-----------------------------|---|--|
| 1. | Owner | First Energy | | _ Da | te | 10/13 | /2003 | |
| | 76 South M | fain Street - Akr | on, OH 44308 | _ She | eet <u>1</u> | of | · · · · · | 1 |
| 2. | Plant | Beaver Valley F | Power Station | U n | it No. | | 2 | |
| | · | Shippingport, P. (ADDRESS) | A 15077 | | Ord Repair/Replacemen | er #2000 It Organization | | lo., etc. |
| 3. | Work Perfor | med By <u>FENC</u> | OC-Maintenance | Т | oe Code Symbo | l Stamp | | V/A |
| | | Shippingport, P. | A 15077 | Aut | thorization No | | N/A | - 4 |
| | | (ADDRESS) | | | oiration Date | | « | |
| | | | | 느시 | onation bate _ | | | |
| 4. | Identification | n of System _ | Safety Injection | (Class 1) | | | | : |
| 5.6. | (b) Applicable (c) Applicable | | * * * * * * * * * * * * * * * * * * * | | | ia, | <u>N/A</u> Code (| Jase |
| | | | | | | | | |
| | Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Buik | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
| | | | | | | | Removed, or | Code Stamped |
| | Component | Manufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) |
| | Component | Manufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) Yes |
| | Component | Manufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) Yes |
| | Component | Manufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) Yes |
| | Component | Manufacturer | Serial No. | No. | Identification | Buik | Removed, or Installed | Code Stamped (Yes or No) Yes |
| 7. | Valve | Manufacturer Kerotest | Serial No. | No. 5649 | Identification 2SIS-126 | Buik | Removed, or Installed | Code Stamped (Yes or No) Yes |

| 9. Remarks No Code Data Report. |
|--|
| 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 rules of the ASME Code, Section XI. |
| SECION AL. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| |
| Signed Source Source Source Signed November 20 , 20 03 |
| Owner or Owner's Designee, Title |
| |
| CERTIFICATE OF INSERVICE INSPECTION |
| |
| the section of hedden a suit an emission instead by the National Document Dellar and Dragoura Vessel Inspectors |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of |
| Hartford CT. have inspected the components described in the |
| Owner's Report during the period $9-5-03$ to $1/-26-03$, 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. |
| |
| Dear J. Light Commissions NB 9428 ANIB PA 2384 |
| Commissions of a fire of the f |
| Inspector's Signature National Board, State, Province, and Endorsements |
| Inspector's Standure National Board, State, Province, and Endorsements |

| Form No. | 1648 |
|----------|------|

| | | | | | ************************************* | | | |
|--------------|-------------|---------------------------------|----------------------------|--------------------------|--|---------------|---|--|
| 1. Own | er | First Energy | · · | _ Dat | е | 10/07 | /2003 | · |
| <u>76 9</u> | South M | fain Street — Akre (ADORESS) | on, OH 44308 | _ She | eet <u>1</u> | of | - | 3 |
| 2. Plan | ıt | Beaver Valley P | ower Station | Uni | t No. | | 2 · | |
| | | Shippingport, P/ | A 15077 | | Work Or Repair/Replacement | | 00024834 1 P.O. No., Job N | o., etc. |
| 3. Wor | k Perfo | med By <u>FENC</u> | C-Maintenance | Тур | e Code Symbol | Stamp | | VA |
| | | Shippingport, PA | A 15077 | ∆ ın t | horization No | | N/A | |
| | | (ADDRESS) | 13077 | | oiration Date | | 11/A | |
| 4. Iden | tificatio | n of System _ | Main Steam | - | | | . | |
| 5 (a) 4 | Innlicable | Construction Code | Section III | 19 77 Edition | n, <u>S'79</u> Addenda | | N/A Code (| ?eeo |
| • | | | • | | A- 71 | · | <u> 147</u> 000g (| ASC. |
| • • | | e Edition of Section > | | s or mepiacements | 1909 | | | |
| (c) | Applicable | e Section XI Code Ca | ase(s): <u>IVA</u> | | • | ₩. | | • |
| 6. Iden | tificatio | n of Components | 3 | (6) (5) (5) (6) (6) | | | | |
| Nam Compo | | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Buik | Corrected, Removed, or installed | ASME Code Stamped (Yes or No) |
| Val | lve | Atwood & Morrill | 3-15579-03 | N/A | 2MSS-AOV101C | 1987 | Соггестес | Yes |
| Pilot P | oppet | Weir Valve | 1 | N/A | Ht #73130 | 2003 | Installed | Yes |
| Stu | | Weir Valve | N/A | N/A | Ht #61586 TR: V121 | 2003 | Installed | No |
| ··· | | | | | | | | |
| | | | | 19- | | | | |
| 7 Des | cription | of Work Rec | laced Pilot Popo | et/stem assemi | bly, two body to o | l cover si | luds, and s | tellite |
| | | | | | • | | | |
| | | <u>haro</u> | <u>ffacing in areas o</u> | of the valve boo | ty. | | | |
| 8. Test | | lucted: Hydros | | | | | * | |

| 9. Remarks Code Data Reports attached. The stellite welding was performed by Continental Field Applicable Manufacturer's Data Reports to be attached |
|--|
| Systems contracted by Weir Valve under the FENOC-Beaver Valley Power Station QA Program. |
| |
| · · · · · · · · · · · · · · · · · · · |
| en e |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| Certificate of Authorization No. N/A Expiration Date N/A |
| |
| a A Clark Sain E. Sain E. |
| Signed Name of UNITE Source Title Source Tit |
| |
| 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 CT of |
| Hartford, CT. have inspected the components described in the |
| Owner's Report during the period $9-22-03$ to $10-9-03$, 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. |
| and the control of th |
| 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. |
| Dear S. Trysik commissions I, N, PA2384 |
| Inspectors Signature National Board, State, Province, and Endorsements |
| Date 10-9-1, 20 03 |
| THE THE PARTY OF T |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

Pg. 1 of 2

| Mai | nufactured for First Energ | y, P.O. Box 6100, Joh | instown, l | PA 15907-6 | 100 aser) | | |
|-----------|---|--|---------------|---------------------------------|--|--|--|
| Loc | ation of installation Beav | er Valley Nuclear Pow | · · . | • | | rt PA 150 |)77 |
| <u> </u> | | (na | ime and addre | ss) | | | |
| Тур | e: *32446-303-C Re | v. 02 SA 479, S30- (matt. spec. no.) | | 88100 PSI (tensile strength) | Section 1 | N/A (CRN) | 20 tyear |
| ASI | ME Code, Section III, Division | | | 979 | * 2 | | N/A |
| . (0) | | (edition) | | da date) | (class) | | (Code Case no.) |
| Fat | ricated in accordance with Co | nst. Spec. (Div. 2 only) | N/A: | N/A | N/A | Date | N/A |
| Res | narks: Cuct thom 04 14 | MC hom 40 2 Ob. 4 D | (na) | | 2244E 202 | | 0.014 |
| | marks: <u>Cust. Item 04 W</u> WC S.O. 68311) *Dwg. | | | | | | |
| | SME Section III 1977 Ed | | | | 1944 japaya 2. | 107 10 7 10 | |
| | | | | | | | |
| NOI | n. Thickness (in.) 1.986 | Min. design thickness (in.) | 1.75 | Dia. 10 (R & ¥ | ы <u>_=N/A -</u> | · Length ov | rerali (R& In.) |
| Wh | en applicable, Certificate Holde | ers' Data Renorts are attach | ed for each | item of this rea | ort: | • | |
| | | sia Data reporta di Cuttori | | | | ÷ | |
| Γ | Part or Appurtenance | National | 7 [| Part or Appu | tenance | | National |
| | Serial Number | Board No. | | Serial Nu | | | Board No. |
| | • | In Numerical Order | 3 1 . | | • | ln N | umerical Order |
| 1, | 1) · UT• 72420 CMI• 4 · | Line to NUA o | | 5)-< `* | | | |
| | 1) <u>HT: 73130 S/N: 1</u> 2) | N/A | - (2 | | ervar i savets | 1 | |
| 1 | 3) | Andrew Control of the State of the Control of the C | 7 62 | | AND RESERVED STANSFERS | | erin den en e |
| | 4) | | 1 2 | | • | 1 | 34. |
| | 5) | | G | | | 1 | |
| | 6) | | - 'i | | - :- | | |
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| | 8) | | (3 | | | | |
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| | 1) | | | | | 1 | |
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| | 3) | ass where he was signed to the first | (3 | | Carried Track | 1 | |
| | 4) | The state of the s | | | e a proportion de la company de la compa La company de la company d | 1 | |
| | 5) | | (4 | · — | | | |
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| | (8) | | 1 4 | | | + | |
| | 9) | | - 4 | | | | |
| | 20) | <u> </u> | - 6 | <u> </u> | | | |
| | 21) | | - (4 | | <u> </u> | + | |
| | 22) | | | _ — | Andrews of the second | + | Section Control |
| | 23) | Alternative Medical Control of | (4 | | Back Barrier | ******** | |
| | | If you was a second of the control of the contro | ·i 114 | O) 🤯 | والمتواد ويها شمير الرارة | . . | <u> </u> |
| e 1 - ∞ / | 24) | THE REPORT OF THE PARTY OF THE | - (4 | مر | A CANCORD | | · Section of the section of the |

FORM N-2 (Back - Pg. 2 of 2)

| | No spine 1 | • | | | 130 3/14 1 | |
|---|---|--|--|----------------|----------------------|---------------------------------------|
| | Ç | ERTIFICATION O | F DESIGN | • | | |
| Design specifications certified by | N/A | | E. State | N/A | Reg. no. | N/A |
| | (when applicab | | ing sa | | _ | |
| Design report * certified by | N/A | P. | E. State | N/A | Reg. no. | N/A |
| | (when applicable) | | | | | ₹ |
| \$ | CE | RTIFICATE OF CO | OMPLIANCE | | | |
| We certify that the statements made | e in this report are correct | and that this (thes | e) | | Pilot Pop | pet |
| conforms to the rules of construction | n of the ASME Code, Sec | tion III, Division 1. | • | | | |
| NPT Certificate of Authorization No | N260 | 7 | Expires | | 6-13 | -04 |
| Date | | & Controls US T Certificate Holder) | <u>, iiic.</u> | igned <u>(</u> | (author | ized representative) |
| | | ERTIFICATE OF IN | ICOCCTION | | | |
| | | KIIFICATE OF IN | ISPECTION | | | |
| I, the undersigned, holding a valid | commission issued by the | National Board of | Boiler and P | ressure Vess | el Inspectors ar | d the State or Province of |
| MA. | And employed by | Mark the control | | HSI | BCT / | |
| of Hartford, CT | | ese items describe | | | 9/19/1 | 3 , and state that to the |
| Best of my knowledge and belief, the lift, Division 1. Each part listed has By signing this certificate, neither the in this Data Report. Furthermore, recess of any kind arising from or con | been authorized for stam he inspector nor his emplo neither the inspector nor h | ping on the date sh yer makes any wa is employer shall b | nown above. manty, expres | ssed or implie | ed, conceming t | he equipment described |
| Date 9/19/13 Signed | | Lann- | Co | ommissions | A, N | MA1657 |
| 77 77 | (autho | orized inspector) | | | [Natt 8d. (incl. End | orsements) and state or prov. and no. |

SERVICE/PARTS DELTS.

**SERVICE/PARTS DELTS.

Community-1 N CERTIFIC/F. HOLDERS' DATA REPORT FOR NUCl 'R PUMPS OR VALVES*

As Required , the Provisions of the ASME Code, Sectio., st. Div. 1

| | used for Duches | ame and Address of N Certificate ne Light Co. * | Pitteh | urgh. PA |
|--|--|---|--|--|
| · | (Ni | ime and Address of Furchaser or Owner | 1 | |
| ecation (| of Installation <u>Be</u> | aver Valley Station 2. | Shippi | ngport, PA |
| twb at | Valve Va | 1ve Nominal | Inlet Size 28 | Outlet Size28 |
| · (a) (| Model No., (b) N C | iertificate Holder's (c) Canadian | (inch) | (linch) |
| · 8 | eries No. | Serial Registration | (d) Drawing | (f) Nat'l. (g) Ye |
| .: | or Type | No. No. | No. (e) Clas | s 8d. No. Buill |
| | B" Main Steam | | | N/A 198 |
| | solation Valv | | Rev. 02 | N/A 198 |
|) | SULALIUM YALV | <u> </u> | NEV. UZ | |
| . — } . <u>∸</u> | | | a see and | |
| } | *Sold | to Stone & Webster Engi | neering Corp. | The state of the s |
| 3 · | | Company of State | E. Canada de Cara de C Cara de Cara d | |
| · | | | | |
| · — | | t poppet material procu | | |
| } | - Vien | Winter 1975 Addenda. R | ererence A&M NUK# 32 | 440. |
| نند (۵ | | | | |
| | Main Steam | | • | • |
| | | (Brief description of service for w | hich equipment was designed) | |
| old Wor | (Pring Pressure | essure) (Temperature) 1500 psi at 100°F. | *F, or Valve Pressure Ci | N/A N/A |
| old Wor ressure | (Processure | essure) (Temperature) 500 psi at 100°F. | T DI VAIVE PIESSURE CI | |
| old Wor ressure | (Principle of the Control of the Con | essure) (Temperature) 1500 psi at 100°F. | F OF VAIVE FIESSURE CI | Remarks |
| old Wor ressure | (Principles of the Control of the Co | essure) (Temperature) 500 psi at 100°F. | T DI VAIVE PIESSURE CI | |
| old Wor | (Principles of the Control of the Co | essure) (Temperature) 500 psi at 100°F. | T DI VAIVE PIESSURE CI | |
| old Wor | (Procedure Andrews No. | essure) (Temperature) 500 psi at 100°F. Material Spec. No. | Manufacturer | Remarks |
| old Wor | (Procedure Andrews No. | essure) (Temperature 500 psi at 100°F. Material Spec. No. | Manufacturer Newport News Shiphuilding | Remarks 4267B-1 |
| old Wor | (Properties of the control of the co | essure) (Temperature) 500 psi at 100°F. Material Spec. No. | Manufacturer Newport News | Remarks |
| old Wor | (Procedure Andrews No. | essure) (Temperature) 500 psi at 100°F. Material Spec. No. | Manufacturer Newport News Shiphuilding | Remarks 4267B-1 |
| old Wor | Retaining Pieces Mark No. | essure) (Tamperature) 500 psi at 100°F. Material Spec. No. SA 216 Gr. WCC | Manufacturer Newport News Shiphuilding | Remarks 4267B-1 |
| old Wor | Retaining Pieces Mark No. ngs | essure) (Tamperature) 500 psi at 100°F. Material Spec. No. SA 216 Gr. WCC | Manufacturer Newport News Shiphuilding | Remarks 4267B-1 |
| old Wor | Retaining Pieces Mark No. | essure) (Tamperature) 500 psi at 100°F. Material Spec. No. SA 216 Gr. WCC | Manufacturer Newport News Shiphuilding | Remarks 4267B-1 |
| old Wor | Retaining Pieces Mark No. ngs | essure) (Tamperature) 500 psi at 100°F. Material Spec. No. SA 216 Gr. WCC | Manufacturer Newport News Shiphuilding | Remarks 4267B-1 |
| old Wor | Retaining Pieces Mark No. ngs | essure) (Tamperature) 500 psi at 100°F. Material Spec. No. SA 216 Gr. WCC | Manufacturer Newport News Shiphuilding | Remarks 4267B-1 |
| old Worressure | Retaining Pieces Mark No. ngs ndy | essure) (Tamperature) 500 psi at 100°F. Material Spec. No. SA 216 Gr. WCC | Manufacturer Newport News Shiphuilding | Remarks 4267B-1 |
| old Worressure Castin Bo b) Forgi | rking Pressure Retaining Pieces Mark No. ngs dy | essure) (Tamperature 500 psi at 100°F. Material Spec. No. SA 216 Gr. WCC | Manufacturer Newport News Shiphuilding Cann & Saul Steel | Remarks 4267B-1 MV4191-2 |
| old Worressure Castin Bo Di Forgi | rking Pressure Retaining Pieces Mark No. ngs dy | essure) (Tamperature 500 psi at 100°F. Material Spec. No. SA 216 Gr. WCC | Manufacturer Newport News Shiphuilding Cann & Saul Steel | Remarks 4267B-1 MV4191-2 |
| old Worressure Castin Bo Di Forgi | rking Pressure Retaining Pieces Mark No. ngs dy | SA 105 Q & T | Manufacturer Newport News Shiphuilding Cann & Saul Steel Cann & Saul Steel | Remarks 4267B-1 MV4191-2 6068460-2 |
| old Worressure Castin Bo Cr | Mark No. Ings Ings Oppet | SA 105 Q & T SA 105 Q & T | Manufacturer Newport News Shiphuilding Cann & Saul Steel | Remarks 4267B-1 MV4191-2 6068460-2 |
| old Worressure Castin Bo Castin Pc | Retaining Pieces Mark No. ngs ody ings oppet | SA 105 Q & T SA 182 Gr. F6a | Manufacturer Newport News Shiphuilding Cann & Saul Steel Cann & Saul Steel | Remarks 4267B-1 MV4191-2 6068460-2 |
| old Worressure Castin Bo Castin Pc | Mark No. Ings Ings Oppet | SA 105 Q & T SA 182 Gr. F6a | Manufacturer Newport News Shiphuilding Cann & Saul Steel Cann & Saul Steel | Remarks 4267B-1 MV4191-2 6068460-2 30611-3 |

or manually operated valves only.

Supplemental Information in the form of first, exercise, or drawings may be used provided [1] size is 8K s 11: [2] Information in items [2], through 4 on this Data Report is included on each sheet [3] sach sheet is sumbered and the number of cheets is eccorded at the top of this second at the same and [4] each additional sheet shall be signed by the Carifficate Holder and the ANI.

FORM NPV-1 (Back)

| Mark No | Material Spec. No. | Manufacturer | Remarks |
|--|--|--|--|
| c) Bolting . | | | |
| Studs | SA 540 Gr. B23 Cl. 5 | Jos. Dyson & Son | Trace P4566 |
| Nuts | SA 540 Gr. B23 Cl. 5 | Jos. Dyson & Son | Trace F1773 |
| | | | |
| The second secon | The state of the s | | |
| | | The second second second | |
| (d) Other Parts | | | |
| N/A | | | |
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| | | <u> </u> | |

| CERTIFICATE OF COMPLIANCE | |
|--|---|
| We certify that the statements made in this report are correct and that this pump, or valve, conforms to the runconstruction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1977 Addenda Summer 1979** Code Case No. N/A Signed Atwood & Morrill Co. Inc. by Snow M. Sullivin | |
| - (N Certificate Holder) Our ASME Certificate of Authorization No. $\frac{N2606}{N2606}$ to use the $\frac{N}{N}$ symbol expires $\frac{6-13-8}{N2606}$ | 9 |

| • | CI | ERTIFICAT | ION OF | DESIGN | | | |
|---|-------------------------|--------------------|--------|---------------|----------|-------|-------------|
| Design information on file at | Stone & | Webster | Engine | ering | | · | |
| Stress analysis report (Class Fig. | inly) on file at | N/A | | · | | | |
| Oesign specifications certified b | y (1)Denn: leg. No34 | Ls Paul L73-E ॐ | Lessar | 1 September 1 | | | |
| Stress analysis certified by (1) PE State | N/A | <u></u> | | | <u> </u> | · | |
| (1) Signature not required. List | name only. | | | | Dange | | |

| | · · · · · · · · · · · · · · · · · · · | | |
|---------------------------|--|----------------------------|------------|
| | CERTIFICATE OF SHOP INSPECTION | | - (A) |
| 1, the undersigned, hold | ting a valid commission issued by the National Board of Boiler | and Pressure Vessel In | rspectors |
| and the State or Province | e of Massachusetts and employed by H. | S.B.1. & I. Co. | 30.00 may |
| of Hartford. C | T have inspected the dumo for valve des | scribed in this Data Ri | enort an |
| 30 Moriz | 19 8Z and state that to the best of my knowledge and belie | of the M Cartificate Holde | r has con- |
| | alve, in accordance with the ASME Code, Section III. | | |
| By signing this certifica | te, neither the inspector nor his employer makes any warranty, e | expressed or implied, ca | acerning |
| the equipment describe | ed in this Data Report. Furthermore, neither the Inspector nor his | s employer shall be lisb | ole in any |
| | al injury or property damage or a loss of any kind arising from or | | |

| Form No. | 1650 |
|----------|------|

| Owner First Energy (NAME) | | | _ Dat | e | 10/08/2003 | | |
|--|---|--|-----------------------|--------------------------------|--------------|---|---------------------------------------|
| 76 South Main Street - Akron, OH 44308 (ADDRESS) | | | _ She | et <u>1</u> | of | | 2 |
| 2. Plant Beaver Valley Power Station | | | Uni | t No. | 2 | | |
| | Shippingport, PA | A 15077 | + | Work O | | 00023787 P.O. No., Job N | o. , e (c. |
| B. Work Performed By FENOC-Maintenance | | | | Type Code Symbol Stamp N/A | | | |
| Shippingport, PA 15077 | | | Aut | Authorization NoN/A | | | |
| (ADDRESS) | | Exp | Expiration Date | | # | | |
| (b) Applicable | Edition of Section 3 Edition of Section 3 Edition XI Code Control of Components | (I Utilized for Repair ase(s): <u>N/A</u> | | n, <u>S'74</u> Addenda 1989 | a, | <u>ww</u> code (| ,ds e |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Buik | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No |
| Relief Valve | Dresser Ind. | TG-62061 | N/A | 2FWE-RV101 | 1985 | Removed | Yes |
| | | | | | | | |
| Relief Valve | Dresser Ind. | TN-39769 | N/A | 2FWE-RV101 | 2003 | Installed | Yes |
| Relief Valve | Dresser Ind. | TN-39769 | N/A | 2FWE-RV101 | 2003 | Installed | Yes |
| Relief Valve | Dresser Ind. | TN-39769 | N/A | | 2003 | Installed | Yes |
| | | | | | | Installed | Yes |

| 9. Remarks Code Data Reports attached. Previous NIS-2 Data Report No: 357. |
|--|
| Aphinama wananamia 2 nara mahina in na anaman |
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| |
| |
| OFDIFICATE OF COURT INCE |
| CERTIFICATE OF COMPLIANCE |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| (in C) |
| Signed Stever Eng. Date October 11 , 20 03 |
| 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 CT of |
| Hartford, CT have inspected the components described in the Owner's Report during the period $9-24-03$ to $10-14-03$, 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. |
| |
| |
| Sean J. Lywly Commissions T. N. PA 2384 Inspector's Signature National Board, State, Province, and Endorsements |
| INSPECTOR'S SIGNALINE |
| Date 10-14-, 20 03 |
| Date 70 1 |

FORM NV-1 CERTIFICATE HOLDERS' DATA REPORT FOR PRESSURE OR VACUUM RELIEF VALVES*

Pg. 1 of

2

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

Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N Manufactured and certified by P. O. Box 1430 Alexandria, Louisiana 71309-1430 (name and address of NV Certificate Holder) Manufactured for First Energy Corporation P. O. Box 3611 Akron, Ohio 44309-3611 2. (mame and address of Purchaser) Location of installation First Energy Corporation Beaver Valley Power Station Unit # 2 Shippingport, Pennsylvania 15077 (mame and address) 1912KC Orifice size 2.138 Nom. Inlet size Outlet size SQ. IN. (model no., series no.) (h.) (h.) N/A ASME Code, Section III, Division 1: 1974 Summer 74 (edition) (addenda date) (dass) (Code Case no.) 1450 7% Saturated 4550 **Ambient** Type (spring, pilot or power operated) (set pressure, psig) (blowdown, psi) (rated temp.) (hydro. Test, psig, inlet) TN-39769 NA 3NC3178 Identification NA 2003 (drawing no.) (Cert. Holder's serial no.) (CRN) (Natl Bd. No.) (year built) Control ring settings Fixed Pressure retaining items: Serial No. or Mat'l. Spec., **Tensile** Identification Including Type or Grade Strength AD081 **ASME SA216 GRADE WCC** 70 ksi **Body** AD083 **ASME SA216 GRADE WCC** 70 ksi **Bonnet or Yoke Support Rods** Nozzie AD071 ASME SA182 GR F316 75 ksi Disk AD074 ASME SA479 TYPE 316 75 ksi **Spring Washers Adjusting Screws** Spindle **Spring** Base Stud Heat # H398 ASME SA193 GR B7 150 ksi **Bolting** Stud Nut Heat #E1D ASME SA194 GR 2H Other Items **Flanges** Relieving capacity 2173 GPM 145 overpressure as certified by the National Board 7-12-95 (steam or fluid, lb/hr) (date) Remarks: **CERTIFICATION OF DESIGN** P.E. State 16001 Design Specification certified by Louis P. Copian California Reg. no. Design Report certified by D. K. Sharma P.E. State Louisiana Reg. no. 20244 **CERTIFICATE OF COMPLIANCE** We certify that the statements made in this report are correct and that this valve conforms to the rules for construction of the ASME Code, Section III, Division 1. 1747 NV Certificate of Authorization No. **Expires** 5/20/2004 8-20-03 SEE LINE 1 Signed (NV Certificate Holder)

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

FORM NV-1 (BACK--- Pg. 2 of _2_)

Certificate Holder's Serial No. TN-39769

I, the undersigned, holding a valid commission issued by the National Board of Pressure Vessel Inspectors and the State or Province of LOUISIANA and employed by HSB CT of HARTFORD, CT. have inspected the valve described in this Data Report on 3/20/03, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this valve in accordance with the ASME Code. Section III.Division 1. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/20/3 Signed 1/20/3 Signed 1/20/3 Commissions 1/20/20/3 (Natl. Bd. (ind. Endorsements) and state or prov. And no.)

| Form No. | 1651 |
|----------|------|
| , 0,,,, | |

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

| 4. | Owner | First Energy | e de ndada bada a diberen Adam | Da | ate | | 10/09 | /2003 | |
|----|--|----------------------------------|--|---------------------------------------|---------------|-------------|------------------|---|--|
| | | (NAME) | | _ | | | | | • |
| : | 76 South M | flain Street – Akro (ADDRESS) | on, OH 44308 | _ St | neet | 1_ | of | | 3 |
| 2. | Plant | Beaver Valley P | ower Station | Ur | nit No. | | 2 | 2 | · |
| | | Shippingport, PA | 15077 | | | | r #2000 | | |
| | | (ADORESS) | | | Repain/R | eplacement | Organization | P.O. No., Job N | • • |
| 3. | Work Perfo | rmed By <u>FENO</u> | C-Construction (NAME) | <u>Serv.</u> Ty | /pe Code \$ | Symbol | Stamp | | N/A |
| | | Shippingport, PA | 15077 | Au | uthorizatio | n No | | N/A | - 1 · |
| | | (ADDRESS) | | E | piration D | ate _ | | * | - 1 y |
| 4. | Identificatio | n of System | Feedwater (Cla | ass 3) | | | | | 1 2 mg |
| | · | | | | DV (| | 71 11 | | ં અનુક |
| 5. | . Talin a Person | Construction Code | | | | | 3, | N/A Code | Case |
| | | e Edition of Section X | | s or Replacement | s <u>198</u> | 9 | | | |
| | (c) Applicabl | e Section XI Code Ca | ise(s): <u>N-416-1</u> | s systa | | | | | |
| 6. | Identificatio | n of Components | . | · · · · · · · · · · · · · · · · · · · | | | | | |
| | Name of Component | Name of - Manufacturer | Manufacturer Serial No. | National Board No. | Od dentif | | Year Buik | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) |
| • | Valve | Copes-Vulcan | 7310-95255-1-2 | 795 | 2FWS-F | CV488 | 1977 | Removed | Yes |
| | Valve | CCI | 101184-010-2 | N/A | 2FWS-I | | 2003 | Installed | Yes busyla |
| | TopaC | 1.3 - 1, -2.1 1 - 1 | a walayaran gar | अनुस्थित । संस्थान | n e torr | | 14 5000 11 11 | 23 - N | ্রেন্ড্রেন্ড্র ১৯৪৯ ক |
| | Valve | Velan | 941054-5 | N/A | 2FW: | S-260 | 1990 | Installed | Yes |
| | | | × , , , , , , | af | | | | | |
| | | <u></u> | | <u> </u> | | | 1 | | sald |
| 7. | Description | of Work Rep | aced Feedwate | r Regulator va | lve with ne | ew desid | on, insta | alled new | |
| | | | | | | | | | |
| | | <u>valv</u> | e | | | | | | |
| 8. | Tests Cond | lucted: Hydros | tatic 🔲 Pneu | matic 🔲 No | minal Ope | rating P | ressure | ⊠ Exe | mpt 🔲 |
| | | • | | | | _ | | | • |

| 9. Remarks Code Data Reports attached. Previous NIS-2 Data Report Nos: 1358, 899, 795, 384, 238, Applicable Manufacturer's Data Reports to be attached 131, 078, 047, and 046. Valve was replaced with a new style per ECP 02-0902-02. |
|---|
| ASME Section III 1989 Edition was used for purchase and installation of new valve. |
| |
| CERTIFICATE OF COMPLIANCE |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| ype Code Symbol Stamp N/A |
| Certificate of Authorization No. N/A Expiration Date N/A |
| Signed School Eng. Date October 21 . 20 03 |
| |
| 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 CT of |
| Hartford, CT. have inspected the components described in the |
| Owner's Report during the period $9-12-03$ to $10-22-03$, 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. |
| Dean J. Dignile Commissions I National Board, State, Province, and Endorsements |
| Date |

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

Pg. 1 of 2

| , | | | n and Stage (see | 5.15 | • • | ess of Certificate Ho | lder) | |
|--|--------------------------------|---|--|---------------------------------------|--------------------|---|--------------|---|
| 2. Manufactured | for Fil | RST ENERGY SE | RVICE COMPA | | | | · | |
| | | • | | (name a | ind address of p | urchaser) | | |
| . Location of in | stallation | BEAVER VALL | EY POWER ST | TATION, SHIP | PINGPORT, PA | 15077 | | |
| | | | | | | nd address) | | |
| Model No. Se | erial No. (| or Type :DRAC | VALVE | Drawing 20 | 0788-1 | Rev. D | CRN | N/A |
| | | ,po <u></u> | | | | - '''' - | 7133. | • |
| . ASME Code, | Section II | I, Division 1: | 1989 | | 10 | 3 | | N/A |
| alu . | | | (edition) | (adden | da date) | (class) | (0 | Code Case no.) |
| . Pump or Valv | | VALVE | Nominal | inlet size | 16" | Outlet s | size | 16* |
| . Tump or Vari | | TALTE | | | | | | • . |
| '. Material: | Body | SA216-WCB | Bonnet | SA-105 | Disk | SA182-F11 | Bolting _ | SA193-B7 & SA194-GR 7. |
| (a) Cert. Holder | 's | (b) Nat Boa | 'l rd | (c) Bod Seri | ly al | (d) Bonnet Serial | | (e) Disk Serial |
| Serial N | | No No | <u> </u> | No 234803 / N | | No. LV8554 | | No. K4389 |
| 101184-0 | | . <u> </u> | | 2340037 IV | 236202 - | LYOUA | - | K4303 [|
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| | | | a programme de la compansión de la compa | u di | | | | |
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| Section 1 | | | · · · · · · | | | • | | t. |
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| grafiete (2 e. g. e.) Grafie (2 grafiete (2 e.) | er de silvada Egit e Birthe | Alter in Designations Could be recommended | | | • | | | and the second second |
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| na españole e 124 - | | 32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | A 1 と 一、 は新動 |

^{*}Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11. (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back - Pg. 2 of 2)

| | | | | | entificate Holder's Senal N | lo. <u>101.184-01</u> | 0-2 | |
|------------------------------|---------------------------------------|-------------|---------------------------------------|--------------|--|---------------------------------------|---------------------------------------|------------------------|
| 8. Design conditions | 1860 | psi | 460 | Deg. Fo | r Valve pressure | N/A | · · · · · · · · · · · · · · · · · · · | (1) |
| - | (pressure) | | (temperature) | | | | | |
| 9. Cold working pressu | ure <u>2250</u> | | psi at 100 Deg. | F | | | • | |
| 10. Hydrostatic test | 3375 | psi - | Disk different pressure | tial | N/A | | psi | |
| | NNET BOLTING: B7, HT # L834 (3775 | 3) | | | | | - | |
| NUTS, SA194- | GR 7, HT # L985 (74: | 21869) | | | | · | | |
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| · | | | | | | | | — |
| | | | CERTIFIC | ATE OF | DESIGN | | | |
| | | | | | | • | | |
| Design Specification (| certified byFRAI | NCIS GA | RDNER | - | PENNSYLVANIA | 03661 | 4-E | |
| Design Report certifie | d by JAMSHI | D FARAM | MARZI P. | E. State | CALIFORNIA | Reg. no. <u>M282</u> | 72 | - |
| | | | | | · · · | · | | 4. 1 |
| · | | | · · · · · · · · · · · · · · · · · · · | <u> </u> | | | | $\stackrel{\smile}{-}$ |
| | | | CERTIFICAT | re of co | MPLIANCE | | | |
| We certify that the | statements made ir | this rep | ort are correct | and that | this pump or valve con | forms to the rules for | | |
| construction of the | ASME Code, Section | on III, Di | v. 1. | | | | | |
| N Certificate of Auti No. | horization | | N-269 | 5 | Expire | es 14 AUGUST, | 2006 | |
| _ | | | | | . 1 | 02.011 | # · · · • • • • | |
| Date 26-AU9-03 | | | Cl | <u>.</u> | Signed | All the | | |
| | (r | v Certifica | ate Holder) | | (au | thorized représentative) | | |
| | | | | | | | - | |
| <u> </u> | | | 0507:5:01 | | | | | |
| ļ | | | CERTIFICA | TE OF IN | SPECTION | | | |
| I, the undersigned, | , holding a valid cor | nmission | n issued by the | National | Board of Boiler and Pr | essure Vessel Inspec | tors and | |
| | | | | | ARTFORD, CONNECT | | | |
| valve, described in | | | nis nump or val | | 5 and state that cordance with ASME Se | to the best of my know | wledge and | |
| bener, the octanical | e Holder Has const | i acica u | ns pump or va | rve, iii aci | AND THE PROPERTY OF THE PROPERTY OF | scion III, Division 1. | | |
| By signing this cert | ificate, neither the i | nspecto | r nor his emplo | yer make | s warranty, expressed | or implied, concerning | y the | • |
| i ' | • | | - | | pector nor his employe | - | manner | |
| for any personal inj | ury or property loss | of any l | kind arising fro | m or con | ected with this inspect | ion. | 10.00 | |
| 0/2/ | | 11- | | , | À | | 1.47 | |
| Date O/KL/03 | 3 Signed Letel | thorized in | rspector) | Commiss | | ndorsement) and state or pr | ov and no 1 | 2 |
| | · | | | | troct or fallowing e | · · · · · · · · · · · · · · · · · · · | , | |

| | 14 14.50 | | DATA | PACKAGE NO. | 941054 | P. |
|-------------------|----------------|-----------|-----------|-------------|--------------|-----|
| FORM NPV-1 CERTIE | FICATE HOLDERS | ' DATA RE | PORT FOR | NUCLEAR PU | IPS OR VALUE | C * |
| As Required by t | the Provision: | of the A | SME Code, | Section I | II, Division | 1 |

| _ | •• | • | • | •• | | | - | ••• | | |
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| • | | | | | | | * ***** . * |
|--|---------------------------------------|---|---------------------------------------|---------------|----------------------|----------------|---|
| 1. Manufactured and | certified | by VEI | AN INC. 2 | 125 WA | RD AVE. MTL. | CANADA | 1.50 |
| | ~ ~~~ ~, ~~ , ~ ;; | | (same and | ddress of | N Certificate Holder |) | |
| 2. Manufactured for | B&WN | UCLEAR SER | | | | 14.444 | - نيون |
| | | | (name and a | address of | purchaser) | | |
| 3. Location of inst | allion | N/A | | <u> </u> | | | <u> </u> |
| | 4.40 | | . (name and : | | | | gar 11 m/sep |
| 4. Model No., Serie | s No., or T | pe GATE | Draw: | ing P | <u>1-76800-N02</u> | Rev F | CRN N/A |
| | | | | | | | |
| 5. ASME Code, Secti | OH III, DIA: | reion T: | 1989 | _ — | NONE | | <u> </u> |
| C Burn on1 | -8** | | (edition) | | ienda date) | (class) | (Code Case no.) |
| 6. Pump or valve | VALVE + | KCminai in | HEC PIZE | | Outlet si | | |
| e skillika mas. | and section is | | a | (in.) | | (in.) | |
| 7. Material: Body | SA-105 | - Rouner - | SA-105 | DIBE | SA-351, CFM8 | Borring | <u>\$λ-193,87</u> |
| | | • | • | | | | <u>Sλ-194,2H</u> |
| | | | | | | • | 44. |
| (a) a 1 mum = 1 | (ъ) | * * | (c) | • | (a) | 7.5 | (e) |
| Cert. | Nat'l | • • | Body | | Bonz | et · | Disk |
| Holder's | Board | | Serial | | Seri | al | Serial 💮 |
| Serial No. | No. | | No. | | No | • • • | No. |
| 041054 | 11.12 | | *** | | ************ | | |
| 941054-1 941054-2 | N/A | | H/C: B-CS | | H/C: AM | | H/C: 03R |
| 941054-3 | | | | | | | |
| 941054-4 | | | .# | | | | · const |
| 941054-5 | | | * | | | | • |
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Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 LAW DRIVE < BOX 2300 Fairfield, NJ 07007-2300.

BWNS

| Certificate Holder's Serial No. 941054 |
|---|
| 1. Design conditions 4175 psi :30 P or valve pressure class 1690 (1) |
| 1. Cold working pressure 4175 psi at 100°F |
| .0. Hydrostatic test <u>6350</u> psi. Disk differential test pressure <u>4650</u> psi |
| 1. Remarks: MATERIALS MEET ASME SECTION II EDITION: 1989 ADDENDA: NONE |
| |
| |
| <u> </u> |
| CERTIFICATE OF DESIGN |
| Design Specification certified by <u>J.M. FARRELL</u> P.E. State <u>OUE</u> Reg. no. <u>30039</u> Design report certified by <u>S. ISBITSKY</u> P.E. State <u>OUE</u> Reg. no. <u>22115</u> |
| |
| |
| We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. |
| We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N Certificate of Authorization No. N-2797-1 Expires MAY 2.95 Date May 12-94 Name VELAN INC. Signed Dodging |
| We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N Certificate of Authorization No. N-2797-1 Expires MAY 2.95 Date May 12-94 Name VELAN INC. Signed Code (Authorized representive) |
| We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N Certificate of Authorization No. N-2797-1 Expires MAY 2.95 Date May 12-94 Name VELAN INC. Signed Dodging |
| We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N Certificate of Authorization No. N-2797-1 Expires MAY 2.95 Date May 12-94 Name VELAN INC. Signed Code (Authorized representive) |
| We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N Certificate of Authorization No. N-2797-1 Expires MAY 2.95 Date May 12-94 Name VELAN INC. Signed Code, Section III, Division 1. (N Certificate Holder) (authorized Expires in the state of the |

1) For manually operated valves only. ...

| Form | Na | 1652 |
|------|-----|------|
| -orm | NO. | 1052 |

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

| | | | | · | | | | |
|----------------------|--------------------------------|---------------------------------------|------------------------|----------------------------|-------------------------|---|--|--|
| 1. Owner _ | First Energy | · · · · · · · · · · · · · · · · · · · | Dat | te | 10/13 | /2003 | <u> </u> | |
| 76 South | Main Street - Akr (ADDRESS) | on, OH 44308 | She | et <u>1</u> | of | | 1 | |
| 2. Plant | Beaver Valley P | ower Station | Uni | Unit No. 2 | | | | |
| | Shippingport, Pa (ADDRESS) | A 15077 | | Orde Repair/Replacement | r #2000 Organization | | lo., etc. | |
| 3. Work Perl | formed By <u>FENC</u> | C-Maintenance | тур | e Code Symbol | Stamp | 1 | N/A | |
| | Shippingport, P | A 15077 | Aut | horization No | | N/A | | |
| | (ADORESS) | | Ext | oiration Date _ | | α | | |
| 4. Identificat | ion of System | Reactor Coola | nt (Class 1) | • | | | | |
| • | ole Construction Code | | | | idonda : | N/A Code (| `eco | |
| • • • • • • | able Edition of Section) | - | | | 2016 IUA, _ | TAY COUR | ease. | |
| (c) Applica | able Section XI Code C | ase(s): <u>N/A</u> | • | | | | | |
| 6. Identificat | ion of Components | 5 | | | | | | |
| Name of Component | Name of Manufacturer | Manutacturer Serial No. | Nutivinal Board No. | Other Identification | Year Buik | Corrected, Removed, or Installed | ASME Code Stamped (Yes or No) | |
| Valve | Kerotest | JU1-17 | 6460 | 2RCS-635 | 1975 | Corrected | Yes | |
| | | | | · | | | | |
| | | • | | | | | | |
| | | | | | | | | |
| | : | | | · | | | | |
| 7. Descriptio | on of Work <u>Sea</u> | l welded a cap o | onto the valve bo | onnet. | | | | |
| | | | | _ | | | | |
| | | <u> </u> | 1 | | | | | |

| 9. Remarks No Code Data Report. |
|--|
| Applicable Manufacturer's Data Reports to be attached |
| |
| |
| |
| <u>.</u> |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Time Code Simbol Stamp M/A |
| Type Code Symbol Stamp N/A |
| O OTT A CART OF A DATE AND |
| Certificate of Authorization No. N/A Expiration Date N/A |
| $\mathcal{O}(\mathcal{A})$ |
| Signed Live South Eng. Date November 17 , 20 03 |
| |
| |
| 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 PA and employed by HSBCT of |
| HARTFOR C , CT have inspected the components described in the Owner's Report during the period $9-39-33$ to $1/-19-63$, and state that to the |
| Owner's Report during the period $\frac{9-3\cancel{p}-\cancel{p}3}{\cancel{p}-\cancel{p}3}$ to $\frac{1/-1\cancel{p}-\cancel{p}3}{\cancel{p}-\cancel{p}3}$, 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. |
| |
| Dean S. hugala Commissions I, N, PA2384 |
| Inspectors Signature National Board, State, Province, and Endorsements |
| |
| Date |

| | | | | FO | m No. | | <u>1653</u> |
|--------------|----------------------------|----------------------------|---------------------------------------|------------------------------|--------------|---|------------------------|
| | FORM NIS-2 OW As Requir | | | S/REPLACEME SME Code Sect | | ΠΥΙΤΥ | |
| Owner | First Energy | | _ Dat | te | 10/09 | /2003 | |
| 76 South | Main Street - Akr | on, OH 44308 | _ She | eet1_ | of | · | 2 |
| Plant | Beaver Valley P | ower Station | Uni | it No. | 03-001 | 2 | |
| • | Shippingport, P. (ADDRESS) | A 15077 | · · · · · · · · · · · · · · · · · · · | | r #2000 | 29391 | o., etc. |
| Work Perf | ormed By <u>FENC</u> | C-Construction (NAME) | Serv. Typ | pe Code Symbol | Stamp | | VA . |
| | Shippingport, PA | A 15077 | Aut | thorization No | . <u>.</u> | N/A | · · |
| | (NOONLOS) | | Exp | piration Date _ | | | |
| Identificati | ion of System | Service Water (| Code Class 3) | \ | | | |
| Name of | on of Components | Manufacturer Serial No. | National Board No. | Other Identification | Year Buik | Corrected, Removed, or Installed | ASME Code Stampe |
| Valve | Manufacturer Walworth | D-66537 | 1795 | 2SWS-MOV105B | 1980 | INSCRIPCT | |
| | | | | 3 | 1.700 | Removed | |
| Valve | Copes-Vulcan | 0320-87110-1-2 | N/A | 2SWS-MOV105B | 2003 | Removed | Yes |
| Valve | Copes-Vulcan | 0320-87110-1-2 | N/A | 2SWS-MOV105B | | | Yes or 1 |
| Valve | Copes-Vulcan | 0320-87110-1-2 | N/A | 2SWS-MOV105B | | | Yes |
| Valve | Copes-Vulcan | 0320-87110-1-2 | N/A | 2SWS-MOV105B | | | (Yes or h |
| | | | | | | | Yes or N |
| | Copes-Vulcan | | | | | | Yes or N |

Other Pressure _____ psi Test Temp. AMBIENT °F

| 9. Remarks Code Data Report attached. Replaced Valve and Section of 16" pipe (P.O. #100575, Applicable Manufacturer's Data Reports to be attached Ht #A42779) added two flanges (P.O. #0045103127, Ht #WSR3). Previous NIS-2 Data Report |
|---|
| No:789. |
| 110.703. |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration DateN/A |
| Signed Source Source Eng Date December 10 , 20 03 |
| |
| 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 CT of |
| Hartford, CT. have inspected the components described in the |
| Owner's Report during the period $9-24-03$ to $12-10-03$, 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. |
| Dear J. Dirich Commissions I, N, P42384 Inspector's Algorithme Rational Board, State, Province, and Endorsements |
| Date /2-/0- , 20 <u>03</u> |

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

| | · | | | |
|------------------------------|---|-----------------------|--|--------------------|
| 1. Manufactured and certifie | Market SPX Valves | & Controls, 5620 | West Road, McKear | 1,_PA |
| · · · · · | | | | |
| 2. Manufactured for | rst Energy Corp., E | O Box 3611, Akron | , OH | |
| | | finame and address of | | |
| 3. Location of installation | First Energy Co | orp., Shippingport | Hill Road, Ship | pingport. PA |
| | | | eddress) | |
| 4. Model No., Series No., or | Type Butterfly | Drawing D-376503 | _ Rev4 | CRNN/A |
| | | | | _ |
| 5. ASME Code, Section III, I | Division 1: 1971 | thru W72 | 3 | n/a |
| | (edition) | (addonda dutci | (class) | (Code Case no.) |
| 6. Pump or valve Valve | Nominal inlet size | 0utlet si | ze <u>16</u> | |
| į. | | (in) | (Ga) | |
| | .351SA479 | SA351 | SA193 | • . |
| (a) valve Body CF | 8M 67477 316 | Disk CF8M Be | olting B8M | |
| (b) pump Casing | Cover | Balting | | |
| for hand, daying man | | | | |
| (a) | (e) | - (d | (4) | (e) |
| Cert. Holder's | Nat'l Board | Body/Casing Serial | Bonnet/Cover Serial | Disk Serial |
| Serial No. | No. | No. | No. | No. |
| M20 0340 4 0 | | <u> </u> | · · · · · · · · · · · · · · · · · · · | _ |
| 0320-87110-1-2 | N/A | CN 60793 3: | 0302 | C N-607944- |
| | | | | <u> </u> |
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This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

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

FORM NPV-1 (Back - Pg. 2 of ______]

| Certificate Holder's Serial No. <u>VOZU-0/11V</u> |
|---|
| 8. Design conditionspsipsi |
| 9. Cold working pressure psi at 100°F |
| 10. Hydrostatic test 425 psl. Disk differential test pressure 50 |
| 11. Remarks: |
| |
| |
| CERTIFICATION OF DESIGN |
| Design Specification certified by Francis Gardner P.E. State PA Reg. no. 36614-E |
| Design Report certified by Reg. no |
| |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the |
| ASME Code, Section III, Division 1. N Cartificate of Authorization No. N=3052 Evaluet 10/5/04 |
| To Continuous of Additional Inc. |
| Date 9-17-03 Name SPX Valves & Controls Signed Signed (authority) |
| CERTIFICATE OF INSPECTION |
| |
| t, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by OneBeacon America Insurance Company of Boston, MA have inspected the pump, or valve, described in this Data Report on |
| 9-17-03, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, |
| in accordance with the ASME Code, Section III, Division 1. |
| By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage |
| or a loss of any kind arising from or connected with this inspection. |
| Date 9-17-03 Signed Authorized Nuclear Inspected Commissions NB 9543, N. 192274 (Natherized Nuclear Inspected Plants Bd. (Incl. sed-memortal and state or prev. and na.) |

(1) For manually operated valves only

| Form No. | 1654 |
|----------|------|

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

| Owner | First Energy | | _ Dat | te | 10/09 | /2003 | |
|---------------------------------|---|--|-----------------------|--|-----------------------|---|--------------------------------------|
| 76 South M | fain Street - Akr | on, OH 44308 | _ She | eet | <u> </u> of | f | 2 |
| Plant | Beaver Valley P | ower Station | U ni | it No. | | 2 | |
| | Shippingport, P/ | A 15077 | <i>*</i> | • | P 03-001 ler #2000 | | |
| | (ADDRESS) | | | Repair/Replaceme | | | lo., etc. |
| Work Perfor | med By <u>FENC</u> | C-Construction (NAME) | Serv. Tyr | pe Code Symbo | of Stamp | | WA . |
| | Shippingport, PA | A 15077 | Aut | thorization No. | | N/A | · · · · |
| | (ADDRESS) | | Exp | piration Date | | 4 | |
| Identification | | Service Water | (Ol 0) | , | | | |
| (c) Applicable | e Edition of Section X e Section XI Code Co | ase(s): <u>N-416-2</u> | | | | | |
| . Identification | n of Components | • | | | | | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Buik | Corrected, Removed, or lastalied | ASME Code Stamped (Yes or N |
| Name of | Name of | Manufacturer | | | Buik | Removed, or | Code Stamped |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | No. | 3dentification | 1979 | Removed, or installed | Code Stamped (Yes or N |
| Name of Component Valve | Name of Manufacturer Walworth | Manufacturer Serial No. D-66541 | No. 1799 | Identification 2SWS-MOV1058 | 1979 | Removed, or histalled Removed | Code Stamped (Yes or N |
| Name of Component Valve | Name of Manufacturer Walworth | Manufacturer Serial No. D-66541 | No. 1799 N/A | Identification 2SWS-MOV1058 | 1979 | Removed, or histalled Removed | Code Stamped (Yes or N |
| Name of Component Valve | Name of Manufacturer Walworth | Manufacturer Serial No. D-66541 | No. 1799 N/A | Identification 2SWS-MOV1058 | 1979 | Removed, or histalled Removed | Code Stamped (Yes or P |
| Name of Component Valve Valve | Name of Manufacturer Walworth | Manufacturer Serial No. D-66541 0320-87110-1-1 | No. 1799 N/A | Identification 2SWS-MOV105I 2SWS-MOV105I | 1979 | Removed, or histalled Removed | Code Stamped (Yes or N |

| 9. Remarks Code Data Report attached. Replaced Valve and Section of 10 pipe (P.O. #100575, Applicable Manufacturer's Data Reports to be attached |
|---|
| Ht #A42779) added two flanges (P.O. #0045103127, Ht #WSR3). |
| |
| |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| Signed Slub Service Ey Date December 10 20 03 |
| Owner or Owner's Designee, size |
| 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 CT of |
| Hartford, CT. have inspected the components described in the |
| Owner's Report during the period $9-24-03$ to $12-10-03$, 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. |
| Dear Signature Commissions I, N. P.A. 2384 Inspector Signature Commissions T, N. P.A. 2384 National Board, State, Province, and Endorsements |
| Date <u>/2-/0-</u> . 20 <u>0 3</u> |

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

| | | | | Pg. 1 of |
|--|--------------------------------|--|---|------------------------------|
| Manufactured and certific | ed bySPX_Valves & | Controls, 5620 Wes | t Road, McKean N Certificate Holder) | , PA |
| 2. Manufactured for | First Energy Corp., | PO Box 3611, Akron | , OH | · |
| 3. Location of installation . | | frame and address of fur p., Shippingport Hi frame and add | | oingport, PA |
| 4. Model No., Series No., o | | Drawing | | crn <u>N/A</u> |
| 5. ASME Code, Section III, | Division 1: 1971 | thru W72 | 3 (dess) | N/A (Code Case no.) |
| 6. Pump or valve <u>Va</u> | lve Nominal inlet size | 16 Outlet size | • | forms con sent |
| 7 Managali Si | A351 SA479 F8M COVER 316 Cover | SA351 CF8M Botting | SA193 | |
| (s) Cert. Holder's Serial No. | (b) Nat'l Board No. | (c) Body(Casing Serial No. | (d) Bonnet/Cover Serial No. | (e) Disk Serial No. |
| 0320-87110-1-1 | AV/A | CN 60793.4 | 0301 | CN 6079427 |
| | | | · | - - |
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(7/98)

This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

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

FORM NPV-1 (Back - Pg. 2 of _____)

Place when the control of the contro

| | Certificate Holde | er's Serial No. <u>032</u> | <u>0-87110-</u> 1 |
|---|--|----------------------------|-------------------|
| 8. Design conditions 150 psi 160 (pressure) | *F or valve pressure class | N/A | (1) |
| 9. Cold working pressure psi at 100°F | | | |
| 10. Hydrostatic test 425 psi. Disk differential test pressum | 150 | | eq |
| 11. Remarks: <u>Oustomer PO 7122785</u> | | | |
| | | | |
| CERTIFICATION | OF DESIGN | • | |
| Design Specification certified byFrancis Gardner N/A | P.E. StateP.E. State | PA Reg. no | 36614-E |
| CERTIFICATE OF | COMPLIANCE | | |
| We certify that the statements made in this report are correct and the ASME Code, Section III, Division 1. | at this pump or valve conforms to t | he rules for construc | ction of the |
| N Certificate of Authorization No. N-3052 | Expires10 | /5/94 | |
| Date 9-17-03 Name SPX Valves & Control (N Continue Holder) | Ls Signed 02-7-/su | shorized represorretive) | |
| CERTIFICATE OF | INSPECTION | | |
| | ard of Boiler and Pressure Vessel Instance Company — have inspected the pump, or valve, | | |
| , and state that to the best of my knowledg | ge and belief, the Certificate Holder has | constructed this pur | np, or valve, |
| in accordance with the ASME Code, Section III, Division 1. By signing this certificate neither the inspector nor his employer makes an | warranty, expressed or implied, conc | cerning the componer | nt described |
| in this Data Report. Furthermore, neither the inspector nor his employer si | | | |
| or a loss of any kind arising from or connected with this inspection. | | • | i |
| Date 9-17-03 Signed Wuthertook Nuder Inspector | Commissions NBS563 | N P42274 | Land no. |

(1) For manually operated valves only

Westinghouse

Westinghouse

Other [

CETNA

CETNA

L050212

L050213

| Form No. | 1656 |
|----------|------|

| r | | | | e ASME Code Sec | | | |
|---------------------------|---|--|-----------------------|---|--------------------------|---|--|
| 1. Owner | First Energy (NAME) | . : | | Date | 12/1 | 9/03 | |
| ' 76 South M | lain Street - Akro (ADDRESS) | on, OH 44308 | <u>.</u> | Sheet 1 | ol | · | <u> </u> |
| 2. Plant | Beaver Valley Po | ower Station | | Unit No. | | 2 | |
| | Shippingport, PA (ADDRESS) | 15077 | . <u></u> | Orde Repair/Replacemen | er #2000 Organization | | o., etc. |
| 3. Work Perfo Westingt | ormed By: nouse Electric Co (NAME) | o. Nuclear Servi | ces | Type Code Symbol | Stamp | . <u> </u> | N/A |
| 20 Inter | national Drive, W | indsor, CT. 060 | <u> 195</u> | Authorization No | | N/A | <u> </u> |
| | (ADORESS) | • | | Expiration Date _ | | | |
| 4. Identification | n of System | Reactor Coola | nt (Class 1) | · | | | |
| (b) Applicable | Construction Code Edition of Section X Section XI Code Ca n of Components | I Utilized for Repair se(s): <u>N/A</u> | | ion, <u>S'72</u> Addenda, _ ents <u>1989</u> | | Code Ca | ise |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Edentification | Year Buik | Corrected, Renoved, or installed | ASME Cade Stamped (Yes or No) |
| Reactor Vessel | Combustion Engineering | CE-9071 | 21669 | 2RCS-REV21 | 1975 | Corrected | Yes |
| CETNA | Westinghouse | P1202B04 | N/A | Heat No. 36825 | 2003 | Installed | No |
| | | | | | 1 | | |

| I | CETNA West | inghouse | L050 | 214 N | /A | Heat No. D88408A | 2003 | Installed | No | |
|---|-----------------------|----------------|----------------|---------------|-------|----------------------|----------|------------|------------|----|
| • | <u></u> | | , , | | | | | | | |
| | 7. Description of Wor | k <u>Repla</u> | ced Co | re Exit Thern | nocou | ole Assemblies at Re | eactor F | lead Colur | <u>nns</u> | • |
| | | E-13. | C-5, L-3 | 3, and N-11 | | | | | | |
| | | | | | | • | | | -:· | ٠. |
| | 8. Tests Conducted: | Hydrosta | atic 🗌 | Pneumatic | | Nominal Operating P | ressure | ⊠ Exen | npt 🔲 | |

Pressure ____ psi

N/A

N/A

Heat No. D88408A 2003

Heat No. D88408A

Installed

Installed

2003

Test Temp. _____ °F

No

No

| 9. Hemanks Four Thermocouple Nozzies were replaced, one was seal welded as part of the Applicable Manufacturer's Data Reports to be attached |
|--|
| installation. Replacement was performed by Westinghouse under the FENOC/Beaver Valley |
| Power Station QA Program to the 1989 Edition of ASME Section XI. |
| |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. / N/A Expiration DateNA |
| |
| Signed Michael A. Gerardi Date 12/19/03 |
| Owner of Original 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 CT of |
| Hartford, CT. have inspected the components described in the Owner's Report during the period $9-22-03$ to $12-19-03$, 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. |
| |
| |
| Wear J. hymle Commissions N89428 ANIB PA2384 Inspectod Signature Commissions National Board, State, Province, and Endorsements |
| named Dual, State, Frontza, and Biodisonials |
| Date /2-19- , 20 03 |
| · · · · · · · · · · · · · · · · · · · |

| Form | Ala | 1658 | |
|------|------|------|--|
| CUIN | IVO. | 1000 | |

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

| 1. Owner First Energy | Date 10-16-03 | • |
|--|---------------------------------------|--|
| 76 South Main Street – Akron, OH 44308 (ADDRESS) | Sheet 1 of 4 | - |
| 2. Plant Beaver Valley Power Station | Unit No. 2 | • |
| Shippingport, PA 15077 | ECP-03-0061-03, ECP-03-0 | 061-04, ECP-03- |
| | 0061-05 & ECP-03-0061-06 | : |
| (ADDRESS) | Repair/Replacement Organization I | P.O. No., Job No., etc. |
| 3. Work Performed By BVPS Construction (NAME) | Type Code Symbol Stamp | N/A |
| Shippingport, PA 15077 | Authorization No. | N/A |
| (ADDRESS) | · · · · · · · · · · · · · · · · · · · | 33.5 |
| | Expiration Date | <u> N/A </u> |
| 4. Identification of System Service Water (Code | Class 3) | · · · · · · · · · · · · · · · · · · · |
| 5. (a) Applicable Construction CodeASME Section III | 19 <u>71</u> Edition, Winter 72 | Addenda, |
| (b) Applicable Edition of Section XI Utilized for Repairs or Rep | lacements 1989 | • |
| (c) Applicable Section XI Code Case(s) N-416-1 | · · | |
| (a) Administration opening and appropriate the state of | • | |

6. Identification of Components

| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Edentification | Year Buik | Corrected, Removed, or Installed | ASME Code Stamped (Yes er No) |
|----------------------|-------------------------|----------------------------|--------------------------|-------------------------|--------------|---|---|
| Pipe | N/A | N/A | N/A | 2-SWS-002-103-3 | 2003 | Installed | No |
| Pipe | N/A | N/A , | N/A | 2-SWS-002-753-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-150-966-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-002-758-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-150-967-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-003-759-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-002-92-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-002-100-3 | 2003 | Installed | No |

| Pipe | NA | N/A | N/A | 2-SWS-002-101-3 | 2003 | Installed | No |
|----------|-------------------------|--------------|-----|-----------------|------|-----------|------|
| Pipe | N/A | NA | N/A | 2-SWS-002-102-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-002-103-3 | 2003 | Installed | No |
| Pipe | NA | NA | N/A | 2-SWS-002-90-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-002-91-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-002-92-3 | 2003 | Installed | No |
| Pipe | N/A | NA | N/A | 2-SWS-002-93-3 | 2003 | Installed | Ν̈́ο |
| Pipe · · | N/A. | N/A | N/A | 2-SWS-002-94-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-002-95-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-003-181-3 | 2003 | Installed | . No |
| Pipe | NA | N/A | N/A | 2-SWS-003-182-3 | 2003 | Installed | No |
| Pipe | NA | N/A | N/A | 2-SWS-003-180-3 | 2003 | Installed | No |
| Pipe | N/A | N/A | N/A | 2-SWS-003-183-3 | 2003 | Installed | No |
| Valve | BNL Industries, Inc. | A030501-2-5 | N/A | 2SWS-160 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-2 | N/A | 2SWS-161 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-6 | N/A | 2SWS-162 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-1 | N/A | 2SWS-163 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-12 | N/A | 2SWS-164 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-4 | N/A | 2SWS-165 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-10 | N/A | 2SWS-172 | 2003 | Installed | Yes |

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| | | | | | | | • . |
|-------|------------------------|--------------|-----|-----------|------|-----------|-----|
| Valve | BNL Industries, Inc | A030501-2-7 | N/A | 2SWS-173 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-8 | N/A | 2SWS-174 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-9 | N/A | 2SWS-181 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-3 | N/A | 2SWS-182 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-2-11 | N/A | 2SWS-339 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-1-4 | N/A | 2SWS-1212 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-1-2 | N/A | 2SWS-1213 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A03050I-1-3 | N/A | 2SWS-1214 | 2003 | Installed | Yes |
| Valve | BNL Industries, Inc | A030501-1-1 | N/A | 2SWS-1215 | 2003 | Installed | Yes |

| 7. Description of World | | | | | |
|---|---------------|------------------|----------------|-------------------|-------|
| Pump Lube Oil Cooler also replaced existing | | | | | |
| | | | | | |
| • | | | . ₩. | | |
| 8. Tests Conducted: | Hydrostatic 🛛 | Pneumatic 🔲 | Nominal Operat | ing Pressure 2 | |
| | Other Pre | ssure <u>165</u> | _ psi Test Te | mp. <u>Ambier</u> | ıt °F |

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| Section XI Code. | Applicable Manufacturer's Date Reports to be attached |
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| | CERTIFICATE OF COMPLIANCE |
| | |
| I certify that the statements ection XI. | made in the report are correct and this conforms to the rules of the ASME Code, |
| ype Code Symbol Stamp Po | er 1/2 ADM-0801, "ASME XI Repair/ Replacement Program" |
| | |
| ertificate of Authorization No. | . NA Expiration Date NA |
| S. 1011 | L |
| igned Sanjib/K. Mukheri | e Date |
| Owner or O | whar's Designed, 1709 |
| | |
| | CERTIFICATE OF INSERVICE INSPECTION |
| • | |
| | id commission issued by the National Board of Boiler and Pressure Vessel Inspectors |
| | annsyllvania and employed by HSB-CT of |
| | have inspected the components described in the |
| | d $8-/-03$ to $10-/6-03$ and state that to the |
| | , the Owner has performed examinations and taken corrective measures described in this |
| Owner's Report in accordance v | ith the requirements of the ASME Code, Section XI. |
| By climing this sortificate name | the inspector nor his employer makes any warranty, expressed or implied, concerning the |
| | asures described in this Owner's Report. Furthermore, neither the inspector nor his employer |
| | any personal injury or property damage or a loss of any kind arising from or connected with |
| this inspection. | any processing or property contrage or a root or only rate around from the contract that |
| | |
| Λ· / Λ | |
| Dean 1. he | whe commissions I, N. PAL384 |
| Inspector | Signature National Board, State, Province, and Endorsements |
| | • |
| Date /0-/6- | , 20 <u>03</u> |

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

Pg. 1 of ____2

| i. Manufactured for | | | , 76 SOUTH | MAIN ST | | 4430 | | - |
|--|------------------------------|--|------------------------------|---------------------------|--------------------------------|------------------|------------------------------|-------------|
| i. Location of Installation i. Model No., Series No., | v | ALVE | (na | me and addres -B2-30-0 | ut | | CRN | • |
| 5. ASME Code, Section II VAI B. Pump or valve | il, Division 1: .VE | 1971 (edition) Nominal inlet al: | ladde 3" | 4 | (class) | 3" | (Code Case no.) | |
| 7. Meterial: Body SA47 | 79 TY316 | Bonnet SA479 | TY316 | | 9 TY316 | (in.) Bolting | \$A193GrB8/\$A19 | 4Gr8I |
| (a) Cert. Holder's Serial No. | (b) Nat'l Board No. | | (c) Body Serial No. | • | (d) Bonnet Serial No. | | (e) Disk Seriel No. | •• |
| 030501-1- (1THRU4 | | | T96 | | T111 | | S260 | • |
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^{*}Supplemental information in form of lists, eletches, or drawings may be used provided (1) size is 8 % × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back - Pg. 2 of ______)

| | | Certific | ats Holder's | Serial No | 30501-1- |
|--|--|--|--|--|---|
| | | | | | 150# |
| | ei te | *F or val | ve pressure | | |
| (pressure) | (temperature) | | | | |
| Cold working pressure150PSIG 0 120F | , ρεί at 100°F | | | | |
| 425 | | • | 320 | | |
| łydrostatic test psi. Dis | k differential test preseu | re | | | |
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| emarks: | | | | | |
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| • | CERTIFICATION OF DE | SIGN | | | |
| F.W. GAR | | | PA | _ | 036614-E |
| ign Specification certified by | | P.E. State _ | | Reg. no | |
| gn Report certified by | | P.E. State _ | | Reg. no | |
| | CERTIFICATE OF COMP | | | | |
| e certify that the statements made in this repo | ort are correct and that th | | alve conform | | |
| e certify that the statements made in this repo the ASME Code, Section III, Division 1. | | | alve conform | is to the rules for | |
| certify that the statements made in this repo the ASME Code, Section III, Division 1. Certificate of Authorization No. | nt are correct and that th N=2882 | | | | |
| certify that the statements made in this repo he ASME Code, Section III, Division 1. ertificate of Authorization No | ort are correct and that the N-2882 TRIES, INC. | | _ Expiree _ | | |
| certify that the statements made in this repo he ASME Code, Section III, Division 1. ertificate of Authorization No | nt are correct and that th N=2882 | is pump or v | _ Expiree _ | | |
| certify that the statements made in this repo he ASME Code, Section III, Division 1. ertificate of Authorization No | ort are correct and that the N-2882 TRIES, INC. | is pump or v | _ Expiree _ | | |
| certify that the statements made in this repo he ASME Code, Section III, Division 1. ertificate of Authorization No | ort are correct and that the N-2882 TRIES, INC. | is pump or v | _ Expiree _ | | |
| certify that the statements made in this repo ne ASME Code, Section III, Division 1. ertificate of Authorization No | ort are correct and that the N-2882 TRIES, INC. | is pump or v | _ Expiree _ | | |
| certify that the statements made in this repo the ASME Code, Section III, Division 1. Certificate of Authorization No | ort are correct and that the N-2882 TRIES, INC. | is pump or v | _ Expiree _ | | |
| e certify that the statements made in this reportie ASME Code, Section III, Division 1. Certificate of Authorization No | ort are correct and that the N-2882 TRIES, INC. tificate Holded CERTIFICATE OF INSPE | is pump or v | Expires (auth | 11/10/0 | 4 tive) |
| certify that the statements made in this report the ASME Code, Section III, Division 1. Certificate of Authorization No | ort are correct and that the N-2882 TRIES, INC. Ufficate Holded CERTIFICATE OF INSPE | is pump or v. Signed CCTION if Board of E | Expires (suth | 11/10/0 | 4 tive) |
| certify that the statements made in this report for ASME Code, Section III, Division 1. Certificate of Authorization No. 108/21/03 Name BNL INDUS IN Certificate of Authorization No. IN Certificate of Authorization No. IN Certificate of Authorization No. IN Certificate of Conn. | TRIES, INC. Ufficate Holder! CERTIFICATE OF INSPER | Signed CCTION Board of E | Country ONEBE | 11/10/0 / Was Accord represents | dvel |
| certify that the statements made in this reported he ASME Code, Section III, Division 1. Section III, Division 1. Section III, Division 1. Section III, Division 1. Section III, Division II. Section III, Division II. Section III, Division III, D | TRIES, INC. tificate Holder CERTIFICATE OF INSPER | Signed Strong Board of Edemployed to the complete to the com | (sutth | 11/10/0 | Inspectors a CX INS. |
| certify that the statements made in this reported he ASME Code, Section III, Division I. ertificate of Authorization No | TRIES, INC. CERTIFICATE OF INSPER | Signed Signed Sound of Edemployed to the pump knowledge | Country ONEBE, or valve, de and belief, ti | 11/10/0 | Inspectors a CX INS. |
| certify that the statements made in this reported ASME Code, Section III, Division II. ertificate of Authorization No | TRIES, INC. CERTIFICATE OF INSPER | Signed Signed Sound of Edemployed to the pump knowledge | Country ONEBE, or valve, de and belief, ti | 11/10/0 | Inspectors a |
| certify that the statements made in this report for ASME Code, Section III, Division 1. Sectificate of Authorization No | TRIES, INC. Ifficate Holded CERTIFICATE OF INSPER | Signed Signed Board of E d employed t ed the pump knowledge | Country ONEBE, or valve, do and belief, the control of the control | 11/10/0 MOC MIZE PROPERTY ACON AMERI SECTIFICATE I | Inspectors a ICA INS. |
| certify that the statements made in this report for ASME Code, Section III, Division 1. Section III, INDUS IN Continue Of Code of Co | TRIES, INC. Ifficete Holder CERTIFICATE OF INSPE In Issued by the Nations have inspect that to the best of my the ASME Code, Sect or nor his employer make | Signed Signed Board of Edemployed to the pump knowledge to the pump to the | Cauth Cauth Coller and Pr ONEBE, or or valve, do and belief, ti on 1. | 11/10/0 MOC MIZED PRESENTS ACON AMERI Excribed in this the Cartificate is seed or implied, | Inspectors at ICA INS. Data Report Holder has concerning |
| certify that the statements made in this report he ASME Code, Section III, Division 1. ertificate of Authorization No | TRIES, INC. tificate Holder CERTIFICATE OF INSPE a lasued by the Nations have inspect that to the best of my th the ASME Code, Section nor his employer make | Signed Signed Sound of Edemployed to the pump knowledge soon ill, Divisiones any warmonton nor the | Cauth Coller and Pr ONEBE, or or valve, do and belief, the | 11/10/0 MOC MICHAEL MICHAEL | Inspectors at ICA INS. Data Report Holder has concerning |
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| the ASME Code, Section III, Division 1. Certificate of Authorization No. 108/21/03 Name BNL INDUS The undersigned, holding a valid commission of EOSTON, MA 108/21/03 and state ructed this pump, or valve, in accordance with a signing this certificate, neither the inspects of the pumponent described in this Data Report. Further presonal injury or property damage or a loss. | TRIES, INC. TRIES | Signed Signed Signed Sound of Edemployed the pump knowledge sion till, Division till, Division to connector nor him or connector nor connec | Courts Courts | 11/10/0 IN OF THE PROPERTY OF | Inspectors at CA INS. Data Report folder has concerning any manner |
| ertify that the statements made in this report ASME Code, Section III, Division 1. refficate of Authorization No | TRIES, INC. TRIES | Signed Signed Signed Sound of Edemployed the pump knowledge sion till, Division till, Division to connector nor him or connector nor connec | Courts Courts | 11/10/0 MOC MICHAEL MICHAEL | Inspectors a ICA INS. Data Report folder has concerning any manner |

(1) For manually operated valves only.

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

Pg. 1 of ___2

| Manufactured for | FIRST ENERGY | SERVICE CO. | 76 SOUTH M | TESS of N Certificate Holder LIN ST, AKRON, O | K 44308 | |
|---------------------------------------|---|-----------------------|---------------------------------------|--|---------------------------|--|
| - | | | Arene and addis | a of Comband | | |
| Location of installat | on TIRST ENE | KGY SHIPPINGP | | AD SHIPPINGPORT | PA 15077 | |
| Model No., Series N | o., er Type | ALVE On | | nd eddress! -20-0011 0 Rev. | CRN_ | |
| ASME Code, Sectio | n III, Division 1: | 1971 | s'7 | | | |
| v | ALVE | (edition) | 0.0 | | (Cod- | c Case no.) |
| Pump or valve | | Nominal inlet size | · · · · · · · · · · · · · · · · · · · | Outlet Elzh | (fn.) | |
| Meterial: Body Si | 479 TY316 | Bonnet SA479 | TY316 | k SA479 TY316 | Botting | GrB8/SA194Gr |
| (a) | (P) | ∜'; . | (c) | (₫) | | |
| Cert. | . Nat'l | | Body | · Bonnet | | (e) Disk |
| Holder's | Board | | Serial | Serial | S | erial |
| Serial No. | No. | * | Na. | No. | 4 | No. |
| 0501-2-(1THR | | | T140 | T109 | R | 144 |
| 0501-2-(5THR | (12) | | T140 | T109 | | 95 |
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^{*}Supplemental information in form of flats, sketches, or drawings may be used provided (1) size in SX × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back - Pg. 2 of ____)

| | CARROCATA HOM | er's Sedal Ho | 030501-2- |
|--|---|--|--|
| | | | 150# |
| Design conditions pel | oF or valve press | | |
| (pressure) (temperature) 150PSIG 8 120F | • | | |
| cold working pressure psi at 100°F | | | |
| 425 | 320 | • | |
| ydrostatic test psl. Disk differential test pr | | | i |
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| ACTIVITIAN AT | | | |
| CERTIFICATION OF F.W. GARDINER | rucsian | | |
| Ign Specification certified by | P.E. State PA | Reg. no | 036614-E |
| gn Report certified by | P.E. State | Reg. no | |
| An impact during by a second s | | | |
| certify that the statements made in this report are correct and the ASME Code, Section III, Division 1. $N-2882$ | | 11/10/0 | |
| Certificate of Authorization No | Expli | " | |
| | | 12 mso | ~~ |
| 08/21/03 BNL INDUSTRIES, INC. | | | |
| 08/21/03 Name BNL INDUSTRIES, INC. | Signed | sutpolized tepresents | itive) |
| Name | Signed | substitled represents | itivel |
| Name | Signed | surbolized represent | itivel |
| Name | Signed(| subplized represent | ntvel |
| Name | | entrolized represents | atval |
| IN Certificate Holder) CERTIFICATE OF IN | SPECTION | subpliced represents | tivel |
| CERTIFICATE OF IR | ISPECTION Board of Boller, an | subdiced represents d Pressure Yessell BEACON AMER | Inspectors a |
| the undersigned, holding a valid commission issued by the National State of Province of CONN. | ISPECTION tional Board of Boller an and employed by | | |
| Name (N Cartificate Holder) CERTIFICATE OF IN the undersigned, holding a valid commission issued by the Name of CONN. State or Province of CONN. BOSTON, MA have ins | ISPECTION tional Board of Boller an _ and employed by pected the pump, or valv | e, described in this | Data Report |
| Name [M Cartificate Holder) CERTIFICATE OF IR the undersigned, holding a valid commission issued by the National State or Province of CONN. BOSTON, MA have ins 08/21/03, and state that to the best of | ispection isonal Board of Boller an ONI and employed by pected the pump, or valv my knowledge and beli | e, described in this | Data Report |
| CERTIFICATE OF IR the undersigned, holding a velid commission issued by the National Province of CONN. State or Province of CONN. BOSTON, MA have ins. 08/21/03, and state that to the best of | ispection isonal Board of Boller an ONI and employed by pected the pump, or valv my knowledge and beli | e, described in this | Data Report |
| Name [M Certificate Holder) CERTIFICATE OF IR the undersigned, holding a valid commission issued by the National State or Province of CONN. State or Province of CONN. BOSTON, MA have insured that the best of ucted this pump, or valve, in accordance with the ASME Code, the contents of the code, the code of the co | ISPECTION tional Board of Boller and amployed by ONI pected the pump, or valv my knowledge and bell Section III, Division 1. | e, described in this of, the Certificate | Data Report Holder has co |
| CERTIFICATE OF IR the undersigned, holding a valid commission issued by the National State or Province of CONN. BOSTON, MA have insued that the best of ucted this pump, or valve, in accordance with the ASME Code, a signing this certificate, neither the inspector nor his employer | ISPECTION tional Board of Boller and and employed by ONI pected the pump, or valv my knowledge and bell Section III, Division 1. | e, described in this of, the Cartificate pressed or Implied | Data Report Holder has co |
| CERTIFICATE OF IR the undersigned, holding a veild commission issued by the National State or Province of CONN. State or Province of CONN. BOSTON, MA have insufficient the best of ucted this pump, or valve, in accordance with the ASME Code, seligning this certificate, neither the inspector nor his employer moonent described in this Data Report. Furthermore, neither the | ISPECTION tional Board of Boller and amployed by ONI pected the pump, or valv my knowledge and bell Section III, Division 1. makes any warranty, ex | e, described in this of, the Certificate pressed or implied, or shall be liable in | Data Report Holder has co |
| CERTIFICATE OF IR the undersigned, holding a valid commission issued by the National Province of CONN. State or Province of CONN. BUSTON, MA have insued that the best of ucted this pump, or valve, in accordance with the ASME Code, signing this certificate, neither the inspector nor his employer | ISPECTION tional Board of Boller and amployed by ONI pected the pump, or valv my knowledge and bell Section III, Division 1. makes any warranty, ex | e, described in this of, the Certificate pressed or implied, or shall be liable in | Data Report Holder has co |
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| CERTIFICATE OF IR undersigned, holding a velid commission issued by the National Province of CONN. DUSTON, PIA have insued that to the best of the this pump, or valve, in accordance with the ASME Code, in increase of the control of the certificate, neither the inspector nor his employer ponent described in this Data Report. Furthermore, neither the | ispection isonal Board of Boller and employed by pected the pump, or valve my knowledge and belle section III, Division 1. makes any warranty, explored the pump or connected with | e, described in this of, the Certificate pressed or implied, or shall be liable in | Data Report Holder has co , concerning : a any manner |

(1) For manually operated valves only.

| Form No. | 1667 |
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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

| . Owner | wner First Energy | | | | 10/08 | 3/2003 | |
|--|---|---|-------------------------|--------------------------------------|------------------------|---|---------------------------------------|
| 76 South F | Main Street - Akr (ADDRESS) | on, OH 44308 | _ SI | neet1 | o | i | 2 |
| . Plant | Beaver Valley F | Power Station | Ui | nit No. | | 2 | |
| | Shippingport, P. (ADDRESS) | A 15077 | | Work Order #2 Repair/Replacement | 200025 Organization | 234, 2000: n P.O. No., Job N | 55363 lo., etc. |
| . Work Perfo | ormed By <u>FENC</u> | OC-Maintenance (NAME) | Ту | pe Code Symbol | Stamp | | N/A |
| | Shippingport, P. | A 15077 | Au | $_{ m thorization}$ No. $_$ | | N/A | <u> 1860 - 1</u> |
| | (ADDRESS) | • | E | piration Date | | * | · |
| • • | _ | Reactor Coolan | ** . | on, <u>W72</u> Ad | Idondo | N/A Codo / | 2000 |
| (c) Applicable | le Edition of Section X le Section XI Code C on of Component: | • | or Replacement | s <u>1989</u> | | | |
| | | • | | | | | • |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other fdentification | Year Buik | Corrected, Removed, or [astalled] | ASME Code Stamped (Yes or No |
| | | | | | | Removed, or | Code Stamped |
| Component | Manufacturer | Serial No. | No. | Identification | Buik | Removed, or installed | Code Stamped (Yes or No |
| Component Relief Valve | Manufacturer Crosby Valve | Serial No. N56963-00-0009 | 206 | fdentification 2RCS-RV551B | 1976 | Removed, or fastalled | Code Stamped (Yes or N |
| Component Relief Valve Relief Valve | Crosby Valve Crosby Valve | Serial No. N56963-00-0009 N56963-000-0008 | 206 N/A | 2RCS-RV551B 2RCS-RV551B | 1976 | Removed, or fastalled Removed Installed | Code Stamped (Yes or N Yes Yes |
| Component Relief Valve Relief Valve | Crosby Valve Crosby Valve | Serial No. N56963-00-0009 N56963-000-0008 | 206 N/A | 2RCS-RV551B 2RCS-RV551B | 1976 | Removed, or fastalled Removed Installed | Code Stamped (Yes or N Yes |
| Component Relief Valve Relief Valve Nozzle | Manufacturer Crosby Valve Crosby Valve Crosby Valve | Serial No. N56963-00-0009 N56963-000-0008 N90556-33-0002 | N/A N/A | 2RCS-RV551B 2RCS-RV551B | 1976 1976 1975 | Removed, or fastalled Removed Installed Installed | Code Stamped (Yes or N Yes Yes Yes |
| Component Relief Valve Relief Valve Nozzle | Crosby Valve Crosby Valve Crosby Valve Crosby Valve | Serial No. N56963-00-0009 N56963-000-0008 N90556-33-0002 | N/A N/A spare for testi | 2RCS-RV551B 2RCS-RV551B Ht #534661 | 1976 1976 1975 | Removed, or fastalled Removed Installed Installed | Yes Yes |

| 9. Remarks <u>Previous NIS-2 Data Heport Nos: 1204, 1197, 1157, 847, 686, 247, 054, 045, 015, 009.</u> |
|--|
| Applicable Manufacturer's Data Reports to be attracted Serial Number N56963-000-008 was corrected at Wyle Labs under Purchase Order 7027453 by |
| replacement of the valve nozzle with a nozzle from valve S/N N56963-01-0001 owned by Alabama |
| Power-Code Data Report attached. |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| Signed Studies Exp. Date December 10 , 20 03 |
| |
| 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 the Owner's Report during the period 9-30-03 to 12-15-13, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. |
| By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. J. P. 2.3.84 Inspector's Signature Commissions |
| Date |

CROSBY

CROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Bules

Q.C.-44B

DATA REPORT Safety and Safety Relief Valves

| N-26963- | -Mod . 1 Name and Address | |
|--|---|--|
| (odel No. 6M16 HR-86RP | Order No. <u>N°303142</u> | Contract Date 4-4-73 |
| Westinghouse i | . Ditteburch Do | 15230 Order No 546-CCK-178342- |
| National Conference of Principle National Nation | me and Address | Cider No 340 Cott 110316 |
| wner Alabama Power Company | | |
| wher Alabama lower compan | Name and Address | |
| | - | |
| ocation of PlantIDSEPIL Ha Fa | atten unclear trant | Unit No. 1, Columbia, Alabama |
| Valve Identification ARVARISE | Serial No N56963-01 | -0001 Drawing NoDS-C-56963-1 Re |
| e | | |
| Type Safety | Orutice Size | 1.952 Pipe Size inlet 6 Outlet inch Inch Inch |
| Safety Safety Relief, Pilot. Power | | • |
| Set Pressure (PSIG) 2485 | | 650° Rated Temperature |
| | | |
| Stamped Capacity 344972 1bs | /hr 3 - Orec | pressure 57 Blowdown (PSIG) 125 PSIR |
| | • | • |
| Hydrostatic Test (PSIG) Inlet | 4575 ps1g Co | mplete Valve750 ps1g |
| 7. | | • • |
| N | | |
| The materials design, construction and | Workmanship comply with AS | ME Code, Section III |
| | | |
| | | ME Code, Section III Addenda Date |
| Class Edition | 1971 | |
| | 1971 | |
| Class 1 Edition | 1971 Ining Components | Addenda Date Winter 1972 |
| Class Edicion Pressure Containing or Pressure Reta | 1971 Ining Components | Addenda Date Winter 1972 Material Specification Including Type or Grade |
| Pressure Containing or Pressure Reta Bar Stock and Forgings | 1971 ining Components Serial No. Identification | Material Specification Including Type or Grade ASTM-A182-71 F316 |
| Class Edicton Pressure Containing or Pressure Reta | 1971 Ining Components | Material Specification Including Type or Grade ASTM-A182-71 F316 ASME-SA182 F316 |
| Class 1 Edition Pressure Containing or Pressure Reta Bar Stock and Forgings Body | 1971 ining Components Serial No. Identification N90490-35-0012 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASME-SA182 F316 ASTM-A105 GT. 2 |
| Class Edition Pressure Containing or Pressure Reta Bar Stock and Forgings | 1971 ining Components Serial No. Identification | Material Specification Including Type or Grade ASTM-A182-71 F316 ASME-SA182 F316 |
| Pressure Containing or Pressure Reta Bar Stock and Forgings Body Bonnet | 1971 ining Components Serial No. Identification N90490-35-0012 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASME-SA182 F316 ASTM-A105 GT. 2 |
| Pressure Containing or Pressure Reta Bar Stock and Forgings Body | 1971 ining Components Serial No. Identification N90490-35-0012 | Material Specification Including Type or Grade ASTM-A182-Fi F316 ASME-SA182 F316 ASTM-A105 Gr. 2 ASME-SA105 Gr. 2 |
| Class 1 Edition Pressure Containing or Pressure Reta Bar Stock and Forgings Body Bonnet b. Support Rods | 1971 Ining Components Serial No., Mentification N90490-35-0012 N90353-35-0024 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASTM-A105 Gr. 2 ASTM-SA105 Gr. 2 ASTM-A182-71.F316 |
| Class Edition Pressure Containing or Pressure Reta a. Bar Stock and Forgings Body Bonnet b. Support Rods Hozzle | 1971 Ining Components Serial No., Mentification N90490-35-0012 N90353-35-0024 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASTM-A105 Gr. 2 ASME-SA105 Gr. 2 ASME-SA105 Gr. 2 ASME-SA182 F316 ASME-SA182 F316 |
| Class 1 Edition Pressure Containing or Pressure Reta Bar Stock and Forgings Body Bonnet b. Support Rods | 1971 Ining Components Serial No. Heatification N90490-35-0012 N90353-35-0024 - N90556-33-0002 | Material Specification Including Type of Grade ASTM-A182-71 F316 ASTM-A105 Gr. 2 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A637 Gr. 718 |
| Pressure Containing or Pressure Reta Bar Stock and Forgings Body Bonnet b. Support Rods Hozzle Disc Holder | 1971 Ining Components Serial No., Mentification N90490-35-0012 N90353-35-0024 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASTM-A105 Gr. 2 ASTM-A182-71.F316 ASTM-A182-71.F316 ASTM-A182-71.F316 ASTM-A182-71.F316 ASTM-A637 Gr. 218 ASTM-A637 Gr. 218 ASTM-A637 Gr. 218 ASTM-A637 Gr. 2 |
| Class 1 Edicion Pressure Containing or Pressure Reta Bar Stock and Forgings Body Bonnet b. Support Rods Hozzle Disc Holder Spring Washers | 1971 Ining Components Serial No. Identification N90490-35-0012 N90353-35-0024 - N90556-33-0002 * N90553-31-0005 N90350-33-0066 N90350-33-0091 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASTM-A105 Gr. 2 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A637 Gr. 218 ASTM-A637 Gr. 22 ASTM-A105 Gr. 2 ASTM-A105 Gr. 2 ASTM-A105 Gr. 2 ASTM-A105 Gr. 2 ASTM-A193-71 Gr. 86 |
| Class 1 Edition Pressure Containing or Pressure Reta Bar Stock and Forgings Body Bonnet b. Support Rods Hozzle Disc Holder | 1971 Ining Components Serial No. Hentification N90490-35-0012 N90353-35-0024 - N90556-33-0002 N90553-31-0005 N90350-33-0066 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASTM-A105 Gr. 2 ASTM-A193-71 Gr. B6 ASME-SA193 Gr. B6 |
| Class 1 Edicion Pressure Containing or Pressure Reta Bar Stock and Forgings Body Bonnet b. Support Rods Hozzle Disc Holder Spring Washers | 1971 Ining Components Serial No. Identification N90490-35-0012 N90353-35-0024 - N90556-33-0002 * N90553-31-0005 N90350-33-0066 N90350-33-0091 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASTM-A105 Gr. 2 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A182-71 F316 ASTM-A637 Gr. 218 ASTM-A637 Gr. 22 ASTM-A105 Gr. 2 ASTM-A105 Gr. 2 ASTM-A105 Gr. 2 ASTM-A105 Gr. 2 ASTM-A193-71 Gr. 86 |
| Class Edicion Pressure Containing or Pressure Reta Bar Stock and Forgings Body Bonnet b. Support Rods Rozzie Disc Holder Spring Washers Adjusting Bolt | 1971 Ining Components Serial No., Identification N90490-35-0012 N90353-35-0024 - N90556-33-0002 * N90553-31-0005 N90350-33-0066 N90350-33-0091 N90351-35-0050 | Material Specification Including Type or Grade ASTM-A182-71 F316 ASTM-A105 Gr. 2 ASTM-A193-71 Gr. B6 ASME-SA193 Gr. B6 |

ender Grand de Proposition

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The other cases and the section of

| | | Material Specification | | | |
|---|---|---|--|--|--|
| | Identification | Including Type or Grade | | | |
| e. Spring | -NX-2761-0047 | ASTM-A304 Gr. 51B60H | | | |
| d. Bolting | | | | | |
| e. Other Parts such as Pilot Compo | onenta | | | | |
| Bonnet Stud | 100987 | ASTM-A453-70 Gr. :460 ASMB-SA453 Gr. 660 | | | |
| Bonnet Stud Nut | 89997 | ASTM-A193-71 GC B6 | | | |
| Talet Stud | N90488 | ASTM-A453-/U Gr 1.060 ASMR-SA453 Gr 660 | | | |
| Inlet Stud Nut | พ90489ู | ASTM-A193-71 GE B6 ASMR-SA193 GF B6 | | | |
| | • | • | | | |
| | | | | | |
| | | | | | |
| | | • | | | |
| 60161 | | | | | |
| Design information of | 926 expires Octoon file at Crosby Valve gn Report No. EC-155. | | | | |
| Design information of | on file at Crosby Valve gn Report No. EC-155. | & Gage Company, | | | |
| I. the undersigned, h Pressure Vessel Inspe Factory Mutual S inspected the equipme state that to the best | centificate of SHOP INSP celtificate of SHOP INSP colding a valid commission issued to ectors and the State or Province of Systems*, Norwood, Hass and described in this Data Report of of my knowledge and belief, the Ma | ECTION by the National Board of Boiler and Mass and employed by 1 | | | |
| I. the undersigned, he pressure Vessel Inspected the equipme state that to the best ment in accordance, with the pressed or implied, could be inspected to the inspector not his enterpressed or implied. | con file at Crosby Valve gn Report No. EC-155. CERTIFICATE OF SHOP INSP. Colding a valid commission issued to ectors and the State or Province of Systems*. Norwood, Hass on described in this Data Report of of my knowledge and belief, the Match the applicable Sübsections of Addicate, neither the Inspector nor his necessing the equipment described in the equipment described in the content of the equipment described in the sections of Addicate. | ECTION by the National Board of Boiler and Mass. and employed by have a posturer has constructed this equip- SME Section III. a employer makes any warranty, examples of this Data Report. Furthermore, neither ther for any personal injury or property | | | |

| Form No. | 1660 |
|----------|------|

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

| | First Energy (NAME) (NAME) (ADDRESS) | | | | 12/01/2003 | | |
|----------------------|--|----------------------------|-----------------------|-------------------------|--------------------------------|---|---------------------------------------|
| Plant | 76 South Main Street - Akron, OH 44308 (ADDRESS) | | _ Sh | eet | <u>1</u> of | fi | 2 |
| | Beaver Valley F | Power Station | Un | it No. | | 2 | |
| | Shippingport, P. (ADDRESS) | A 15077 | · | O: Repair/Replacer | der #2000 nent Organization | | lo., etc. |
| Work Perfor | med By <u>FENC</u> | OC-Maintenance | Ту | pe Code Symb | ol Stamp | | N/A |
| | Shippingport, P. | A 15077 | Au | thorization No. | | N/A | */ ·. |
| | (ADDRESS) | | | piration Date | | | |
| • • • • • • | | | | | | | |
| Identification | n or System | Reactor Coolar | nt (Class 1) | v . | | | <u> </u> |
| (a) Applicable | Construction Code | Section III | 19 <u>77</u> Editio | n, <u>S'79</u> Adde | nda, <u> </u> | N/A Code (| Case |
| (b) Applicable | Edition of Section 3 | KI Utilized for Repairs | s or Replacements | 1989 | | | |
| (c) Applicable | Section XI Code C | ase(s): <u>N/A</u> | | 4 | | | |
| Identification | n 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 |
| ower Relief Valve | Garrett Pneumatic | . P-119 | N/A | 2RCS-PCV45 | 6 1983 | Corrected | Yes |
| Plug | Anderson Greenwood Crosby | N96012-68-0132 | N/A | N/A | 2000 | Installed | Yes |
| · | · | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Description | of Work Rep | laced valve plug | assembly. | | | | |

| 9. Remarks Code Data Report attached. Previous NIS-2 Data Report Nos: 1441, 1195, 1042, 539, Applicable Manufacturer's Data Reports to be attached |
|---|
| 360, and 010. |
| |
| |
| |
| |
| |
| OPPHRIATE OF COMPLIANCE |
| CERTIFICATE OF COMPLIANCE |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| - 190 0000 Ojilibot Omitip 1471 |
| Outstants of A. Abadastan No 844 - Fredants - Date - A44 |
| Certificate of Authorization No. N/A Expiration Date N/A |
| (Out) |
| Signed Schot Sever Esp. Date December 1 , 20 03 |
| Owner or Owner's Designee, Time |
| |
| CERTIFICATE OF INSERVICE INSPECTION |
| DEMINIONIE OF MODIFICATION |
| |
| 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 CT of |
| Hartford CT . have inspected the components described in the |
| Owner's Report during the period $10-6-03$ to $12-3-03$, 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. |
| Dean J. Prysich Commissions I, N. PA 23 84 Inspector's Province, and Endorsements |
| Date 12-3 20 03 |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

| Manufactured and certified by | Anderson Green | wood Crosby, 43 Kendric | k St., Wrentha | m, MA 02093 |
|---------------------------------------|---------------------------------------|----------------------------|------------------|--------------------|
| | (N | ame and Address of N Co | rtificate Holder |) |
| Manufactured for | | FIRST ENERGY | | |
| · | (Name | and Address of Purchaser | or Owner) | |
| Location of Installation | BEA | VER VALLEY POWER | STATION | <u> </u> |
| · · · · · · · · · · · · · · · · · · · | | (Name and Address |) | |
| Type DS-C-67970-13REV.G | SA479 TYPE 316 | 75,000 | | 2000 |
| | (mat'l. spec. no.) | (tensile strength) | (CRN) | (year built) |
| ASME Code, Section III, Division 1 | | SUMMER 1979 | 1 | |
| | (edition) | (addenda date) | (class) | (Code Case N |
| Fabricated in accordance with Const | • | | vision - | Date - |
| | prot (2011 - 012), | (no.) | | |
| Remarks • | • • • | (20.) | | |
| | | | | , P |
| | | | | |
| Nom. thickness (in.) Min. | decion thickness (in) | - Dia. ID (ft & in.) | I enoth | werell (ft & in) |
| When applicable, Certificate Holder | | | | Vetali (it & iti.) |
| when applicable, Certificate Holder | s uata reports are attac | neu for each rem of this i | eport. | |
| Part or Appurtenance | National | Part or Appu | rtenance | National |
| Serial Number | Board No. | Serial Nu | | Board No. |
| Serial Number | in Numerical Order | · | u | in Numerical Order |
| (1) N96012-68-0131 | m Numerical Order | (26) | , | m Numerical Order |
| (2) N96012-68-0132 | | (27) | | |
| (3) N96012-68-0133 | | (28) | | |
| (4) | | (29) | | |
| (5) | | | | |
| (6) <u></u> | - | (31) | | |
| <u>(7)</u> | · · · · · · · · · · · · · · · · · · · | (32) | · • | |
| (8) | - | (33) | | |
| (9) | | (34) | | |
| (10) | | (35) | | |
| (11) | · · · · · · · · · · · · · · · · · · · | (36) | | |
| (12) | · · | (37) | | |
| (13) | | (38) | | |
| (14) | | (39) | | |
| (15) | | (40) | | |
| (16) | | (41) | | |
| (17) | | (42) | | |
| (18) | : | (43) | | |
| (19) | | (44) | | • |
| (20) | | (45) | | |
| | | (46) | | |
| (21) | | | | |
| (21) | | (47) | | |
| | | (48) | | |
| (22) | | (48) (49) | | |
| (22) (23) | | (48) | | |
| (22) (23) (24) | | (48) (49) | | at temp. 70 |

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

| CERTIFICATE OF DE | ZSIGN |
|--|--|
| Design specifications certified by LIKE EZEKOYE (when applicable) | P.E. State PA Reg. no. 18379-E |
| Design report* certified by (when applicable) | P.E. StateReg. no |
| CERTIFICATE OF COM | PLIANCE |
| We certify that the statements made in this report are correct and that the conforms to the rules of construction of the ASME Code, Section III, D | |
| NPT Certificate of Authorization No. N-1877 Expires Sep Anderson Greenwood Crosby Date 7 APR 00 Signed Wrentham, MA (NPT Certificate Holder) | by(Authorized Representative) |
| <u>CERTIFICATE OF INSP</u> | ECTION |
| Λ / | ese items described in this Data Report on knowledge and belief, the Certificate Holder E Code, Section III, Division 1. Each part listed has any warranty, expressed or implied, concerning inspector nor his employer shall be liable in any |
| Date | ions MA ~ 1418 W (Nat'l. Bd. (incl. endorsements) and state or prov. and no.) |

| Form No. | 1661 |
|----------|------|

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

| 1. Owner | . Owner First Energy | | | Date | | 12/08 | /2003 | |
|-----------------------|--|------------------------------|----------------------|------------|---------------------------------|--|----------------------------------|--|
| 76 South M | 76 South Main Street - Akron, OH 44308 (ADDRESS) | | _ | Sheet | 1 | of | | 2 |
| 2. Plant | Beaver Valley P | ower Station | | Unit No. | | , | 2 | · · · · · · · · · · · · · · · · · · · |
| | Shippingport, P. (ADDRESS) | A 15077 | : | R | Work (| | 00060100 1 P.O. No., Job N | lo., etc. |
| 3. Work Perfor | med By <u>FENC</u> | OC-Maintenance | · | Туре Со | ode Symbo | i Stamp | t | N/A |
| <u> </u> | Shippingport, PA | A 15077 | | Authoriz | ation No. | | N/A | |
| | (ADORESS) | | | Expiration | on Date | | æ | |
| | | | 40. | · | | | ; | ** |
| | · · · · · · · · · · · · · · · · · · · | Safety Injection Section III | | | S'75 Adden | 14.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1 | N/A Code (| Case |
| (b) Applicable | e Edition of Section) | d Utilized for Repairs | or Replaceme | ents | 1989 | | • | 1 . |
| (c) Applicable | e Section XI Code Ca | ase(s): <u>N/A</u> | | | | • | | |
| 6. Identification | n of Components | | | • | | | | ; |
| Name of Companient | Name of Manufacturer | Manufacturer Serial No. | National Boar No. | | Other Identification | Year Built | Corrected, Removed, or Installed | ASMB Code Stamped (Yes or No) |
| Valve | Copes-Vulcan | 7720-95387-290-6 | 1894 | | 2SIS-85 | 1978 | Corrected | Yes |
| Plug | DeZurik/Cope- Vulcan | 0121-96237-1-1 (01-03) | N/A | | Trim Set | 2001 | Installed | Yes |
| | | | | | | | | |
| | | | | | | | | |
| | | | <u></u> | | | | | |
| 7. Description | of Work Rep | laced plug (trim a | assembly). | - | | 1 | | |
| 8. Tests Cond | ucted: Hydros Other [| tatic Pneun | | | Operating Test Temp | | | npt 🛛 |

| 9. Remarks Code Data Reports attached. Applicable Manufacturer's Data Reports to be attached |
|--|
| Cédumena una manutat a para 1 obra ra a aranton |
| |
| |
| |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| |
| Signed Studies Suign Ery. Date <u>December 9</u> , 20 03 |
| |
| |
| CERTIFICATE OF INSERVICE INSPECTION |
| 4 the understand helding a relial complete leaved by the Netland Decad of Delias and Decay West translation |
| 1, 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 CT of |
| Hartford, CT have inspected the components described in the |
| Owner's Report during the period $\sqrt{0-6-03}$ to $\sqrt{2-10-03}$, 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. |
| Dean S. National Board, State, Province, and Endorsements |
| Date |

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

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

Not to Exceed One Day's Production

Pg. 1 of __

| cation of installation Beaver Valley, Pennsy | · | ort. PA |
|--|-------------------------------------|---------------------|
| | (UBM4 Bud address) | |
| pe: L-180843 Rev. 1 A276 Typ 420* | N/A N/A Itensile strengthi (CRN) | 2001 fyeer build |
| • | | N/A : |
| (edition) | Summer 1975 2 Goldenda datel delas | si (Code Casa no.) |
| bricated in accordance with Const. Spec. (Div. 2 only) | N/A Revision N/A | Date N/A |
| | | |
| marks: Plug for 2" Trim Set per Valv | e Assembly Drawing E-18 | 086/ Rev. 2 |
| Cust. P.O. 7067498 | CV Tob 0121-96237 | |
| Cust. F.V. 7007478 | CV 500 0121-20231 | : |
| | Ref. Cv Job 7720-9 |)5387 |
| om. thickness (in.) N/A Min. design thickness (in.) N | | |
| hen applicable, Certificate Holders' Data Reports are attached for | • | |
| Total Springer of the Springer | | |
| | | |
| Part or Appurtenance National | Part or Appurtenance | National |
| Serial Number Board No. | Serial Number | . Board No. |
| In Numerical Order | | In Numerical Order |
| in the control of the | | |
| (1) 0121-96237-1-1 (D1-03) N/A | (26) | |
| 121 | (27) | |
| 121 | (26) | |
| (4) | (29) | |
| (5) | (30) | |
| (6) | (31) | |
| in. | (32) | |
| * Acceptable per NC2121 for valves | (33) | |
| 2 inch nominal pipe size or less. | (34) | |
| | (35) | |
| | (36) | |
| (12) | (37) | |
| 131 | (38) | |
| [14] | (39) | |
| (15) | (40) | |
| | (41) | |
| (15) | | |
| (17) | | |
| (18) | | |
| (19) | (44) | |
| (20) | | |
| (21) | (46) | |
| (22) | (47) | |
| (23) | (48) | |
| | 1 P | 1 |
| (24) | (49) | |

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

FORM N-2 (Back - Pg. 2 of _____]

Certificate Holder's Serial Nos.

0121-96237-

| | CERTIFICATION OF | DESIGN | |
|--|---|---------------------------------------|---------------------------------------|
| Design specifications certified by | N/A | P.E. State | Reg. no |
| | fwiten applicable) N/A | | • |
| Design report® certified by | (when applicable) | P.E. State | Reg. no. |
| | CERTIFICATE OF CO | APLIANÇE | |
| We certify that the statements made in | this report are correct and that this like | Plug | |
| conforms to the rules of construction of | - | | • |
| NPT Certificate of Authorization No | พ-3053 | Expires10/5/0 | 14 |
| Date 11-16-01 Name Do | eZurik/Copes-Vulcan | Signed Red Market | tel (ppresentative) |
| | CERTIFICATE OF IN | SPECTION | |
| I, the undersigned, holding a valid comments. Penna and employe | nission issued by the National Board of d by <u>Factory Mutual Ins</u> | | s and the State or Province of |
| of Johnston, RI have ins | pected these items described in this Da | ta Report on 11-K-01 | , and state that to th |
| best of my knowledge and belief, the C III, Division 1. Each part listed has been | | | with the ASME Code, Section |
| By signing this certificate, neither the is | nspector nor his employer makes any w | arranty, expressed or implied, conce | ming the equipment describe |
| in this Data Report. Furthermore, neither | • • • | e liable in any manner for any person | al injury or property damage o |
| loss of any kind arising from or connect | ed with this inspection. | Λ | |
| Date 11-12-01 Signed | Suspensed Inspector | Commissions VA227 | dorsemental and state or prov. and no |

| Form | No | 1662 |
|------|----|------|

| 4 0 | First Francis | | | _ | 40/40 | 10000 | |
|------------------------------------|--------------------------------|----------------------------|---------------------------------------|----------------------------|---------------|---|--------------------------------------|
| I. Owner | First Energy | ····· | _ Dat | e | 10/13 | /2003 | |
| 76 South M | ain Street - Akre (ADDRESS) | on, OH 44308 | _ She | et <u>1</u> | of | | <u> </u> |
| 2. Plant | Beaver Valley P | ower Station | Uni | t No. | | 2 | |
| | Shippingport, PA | A 15077 | · · · · · · · · · · · · · · · · · · · | Orde Repair/Replacement | r #2000 | | |
| 3. Work Perfor | med By <u>FENO</u> | C Maintenance | Тур | e Code Symbol | | | √A |
| | Shippingport, PA | A 15077 | Aut | horization No | | N/A | |
| | (ADDRESS) | | | iration Date _ | | • | |
| | • | | | | | ٠. | |
| Identification | of System | Service Water | (Class 3) | | | • • | |
| 5. (a) Applicable | Construction Code | Section III | 19 <u>74</u> Edition | , <u>\$'74</u> Addend | a, | N/A Code C | ase |
| | Edition of Section X | | | | | | |
| (c) Applicable | Section XI Code Ca | ase(s): <u>N/A</u> | | | | | |
| 6. Identification | of Components | ; | | | | | · |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Corrected, Removed. or fastalled | ASME Code Stamped (Yes_w No |
| Check Valve | Mission | B4581 | N/A | 2SWS-58 | 1976 | Removed | Yes |
| Check Valve | Mission | B4582 | N/A | 2SWS-58 | 1976 | Installed | Yes |
| | | | | | | | |
| | | | | · | | | |
| | | | | | | | |
| | | | , , , , , | | | | |
| 7. Description | of Work Rep | laced valve with | spare. | | | | |
| | | | | | | | |

| 9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 1455. Replacement valve |
|--|
| Applicable Manufacturer's Data Reports to be attached was formerly installed in the 2SWS-57 location. |
| was formerly installed in the 25445-57 location. |
| |
| |
| |
| |
| - |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. |
| Time Code Combal Champ AVA |
| Type Code Symbol Stamp N/A |
| |
| Certificate of Authorization NoNA Expiration Date N/A |
| |
| Signed School December 11 , 20 03 |
| |
| 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 CT of |
| Hartford, CT. have inspected the components described in the |
| Owner's Report during the period $10-9-03$ to $12-12-03$, 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. |
| Owner 5 neport in accordance with the requirements of the ASIME Code, Section At. |
| |
| 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. |
| • |
| Dean J. Prince Commissions I, N, P42384 Inspectors Signature Commissions II, N, P42384 National Board, State, Province, and Endorsements |
| Date |

| Form | NΩ | 1664 | |
|------|----|------|--|

| 700 41 1 | (NAME) 76 South Main Street Akron OLI 44208 | | | 20. | - 4 | • | |
|--------------------------------------|--|--------------------------------|-----------------------|-------------------------|---------------|---|--|
| · | 76 South Main Street – Akron, OH 44308 (ADDRESS) | | | eet <u>1</u> | | ngar ning distantis | <u>. </u> |
| | Beaver Valley Po | wor Station | lin | it No. | | 2 | |
| z. Flam | (NAME) | wei Station | | | | <u> </u> | |
| | Shippingport, PA | 15077 | | Repair/Replacement | 000156 | | lo., 1 |
| | • | | _ | | | | • |
| 3. Work Perio | med By <u>FENOC</u> | <u>;-Maintenance</u> (NAME) | e iy | pe Code Symbol | Stamp | | V// |
| | Shippingport, PA | 15077 | Au | thorization No | <u> </u> | N/A | |
| | (ADDRESS) | | Ex | piration Date _ | | * | |
| 1 Identificatio | n of System | Steam Vent (| Place 2\ | | | | |
| | | | • | | | | |
| | Construction Code _ | | 5, | | denda, _ | Code C | 156 |
| | le Edition of Section XI | · · | rs or Replacements | 1989 | • | • . | |
| (c) Applicab | le Section XI Code Cas | se(s): <u>N/A</u> | | | | | |
| (-) | | | | | | | |
| | n of Components | 18 | • | • | | | |
| | on of Components | :A | · · · | · | T | Corrected | |
| 6. Identificatio | Name of | Manufacturer | National Board | Other | Year | Corrected, Removed, or | |
| 5. Identificatio | • | Manufacturer Serial No. | National Board No. | Other [destification | Year Built | Removed, | |
| 6. Identificatio | Name of | | | | | Removed, or | (|
| Name of Component | Name of Manufacturer | Serial No. | No. | Edeatification | Built | Removed, or installed | |
| Name of Component Check Valve | Name of Manufacturer Enertech | Serial No. 11026 | No. N/A | 2SVS-80 | 2000 | Removed, or installed Corrected | |
| Name of Component Check Valve Stud | Name of Manufacturer Enertech Nova Machine | Serial No. 11026 N/A | N/A N/A | 2SVS-80 Ht #13853-F204 | 2000 2003* | Removed, or installed Corrected Installed | |
| Name of Component Check Valve Stud | Name of Manufacturer Enertech Nova Machine | Serial No. 11026 N/A | N/A N/A | 2SVS-80 Ht #13853-F204 | 2000 2003* | Removed, or installed Corrected Installed | |
| Name of Component Check Valve Stud | Name of Manufacturer Enertech Nova Machine | Serial No. 11026 N/A | N/A N/A | 2SVS-80 Ht #13853-F204 | 2000 2003* | Removed, or installed Corrected Installed | |

| . Remarks No Code Data Report for material Applicable N 222, and 081. *Year installed. | fanulacturer's Data Reports to be | | |
|---|--|---|-------------------------------|
| | | | |
| | | | Application 1 200 M |
| | e de seule de la constant de la cons | : | |
| the state of the second second the property of the second | | And the Mark College of the College | |
| CERTIFICA | TE OF COMPLIANC | E | |
| I certify that the statements made in the report are ection XI. | correct and this confo | orms to the rules of t | ne ASME Code, |
| ype Code Symbol Stamp N/A | | | * * |
| ertificate of Authorization NoN/A | Expiration Date | N/A | |
| igned Stude Saver Owner or Owner's Designes, Title | Eug. Date | October 13 | , 20 <u>03</u> |
| I, the undersigned, holding a valid commission issued by and the State or Province of <u>Pennsylvania</u> and em | | | el Inspectors |
| . d . u | nspected the components | described in the | |
| Owner's Report during the period best of my knowledge and belief, the Owner has performed Owner's Report in accordance with the requirements of the | ed examinations and take | n corrective measures | |
| By signing this certificate neither the inspector nor his emperaminations and corrective measures described in this C shall be flable in any manner for any personal injury or prothis inspection. | Dwner's Report. Furthern | nore, neither the inspec | tor nor his employer |
| Jean J. Nysiel Insportor's Signature | Commissions | tional Board, State, Province, | 4 2-3 8 4 and Endorsements |
| | | | • |

| Form N | io | 1665 |
|--------|-----|------|
| TOME I | 10. | 1000 |

| | | | | | | | · . |
|--|--|---------------------------------------|-------------------------|-------------------------|-----------------------|---|--|
| 1. Owner _ | First Energy | | Da | te | 10/10 | /2003 | |
| 76 South | 76 South Main Street - Akron, OH 44308 (ADDRESS) | | | eet1 | o | · | 1 |
| 2. Plant | Beaver Valley Po | ower Station | Uni | it No. | | 2 | : |
| | Shippingport, PA | 15077 | <u> </u> | 2 Repair/Replacement | 000564 Organizatio | | lo., etc. |
| 3. Work Perl | ormed By <u>FENO</u> | C-Maintenance | Туг | pe Code Symbol | Stamp | | N/A |
| | Shippingport, PA | 15077 | Au | thorization No | | N/A | ·• |
| | (ADORESS) | | Ex | oiration Date _ | | 44 | |
| | : | | · | | | | |
| 4. Identificati | on of System | Steam Vent (C | lass 2) | | | | <u> </u> |
| 5. (a) Applicab | le Construction Code | Section I | <u>II 19 74</u> Edition | n, <u>W74</u> Ad | denda, _ | Code Ca | ise . |
| (b) Applica | ble Edition of Section X | I Utilized for Repair | rs or Replacements | 1989 | | | |
| (c) Applica | ble Section XI Code Ca | se(s): <u>N/A</u> | | | | • | |
| 6. Identificat | ion of Components | · : | | et ekselej | | | |
| 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 | Enertech | 10331 | N/A | 2SVS-82 | 1995 | Corrected | Yes |
| Stud | Nova Machine | N/A | N/A | Ht #8992181 F875 | 2003* | Installed | No |
| Nut | Nova Machine | N/A | N/A | Ht #J455 | 2003* | Installed | No |
| | | | | | | | |
| 7. Description 8. Tests Control | n of Work Repl | · · · · · · · · · · · · · · · · · · · | ds and nuts. | | | | |

| Applicable Manufacturer's Data Rep. 555, 364, 224, and 083. * Year installed. | ports to be attached |
|--|---|
| | |
| | |
| | |
| CERTIFICATE OF COMPI | PLIANCE |
| I certify that the statements made in the report are correct and this Section XI. | is conforms to the rules of the ASME Code, |
| ype Code Symbol Stamp NA | |
| Certificate of Authorization No. <u>NA</u> Expiration Date | N/A |
| Signed Hule Sewier Eng. Date | te <u>October 13</u> , 20 <u>03</u> |
| I, the undersigned, holding a valid commission issued by the National Board and the State or Province of Pennsylvania and employed by HSB have inspected the comp | ICT of |
| Owner's Report during the period | A-1,5-63, and state that to the and taken corrective measures described in this |
| By signing this certificate neither the inspector nor his employer makes any examinations and corrective measures described in this Owner's Report. For shall be liable in any manner for any personal injury or property damage or a this inspection. | Furthermore, neither the inspector nor his employer |
| Dean I. Night Commission | ns I, N PA 2384 National Board, State, Province, and Endorsements |
| Date 19-15- , 20 83 | • |

| Form | No | 1666 | |
|---------|------|------|--|
| 1 04411 | 110. | 1000 | |

| 1. Owner | First Energy | | | Date <u>10-16-03</u> | <u>-</u> | - | |
|----------------------|--------------------------------|----------------------------|--------------------------|-------------------------------|--------------|---|---|
| 76 South | Main Street - Akr (ADDRESS) | | | Sheet 1_of 2 | | · | |
| 2. Plant | Beaver Valley P | ower Station | · | Unit No. 2 | | | |
| | Shippingport, P. (ADDRESS) | A 15077 | <u></u> . | ECP-02-022 Repair/Replacement | | n P.O. No., Job No. | ⊶ etc. |
| 3. Work Perf | ormed By BVPS | Construction (NAME) | · <u></u> | Type Code Symbol | Stamp | <u>, N</u> | /A |
| | Shippingport, Pa | A 15077 | | Authorization No | : | N/A | |
| | (ADDRESS) | | | Expiration Date | | | |
| I. Identificati | on of System _ | Service Water | (Code Cla | ass 3) | | | |
| | le Construction Code | ASME Se | ction III 1 | 971 Edition, Win | ker '72 | Addenda, | Code |
| case (b) Applical | ble Edition of Section) | d Utilized for Repai | rs or Replace | ements 1989 | • | | |
| (c) Applical | ble Section XI Code Ca | sse(s) N-416-1 | • | - . | | | |
| 6. Identificati | on of Components | 3 | | | | ÷ | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Buik | Corrected, Removed, or Installed | ASME Code Stamped (Yes er No) |
| Pipe | N/A | N/A | N/A | 2-SWS-030-76-3 | 2003 | Installed | No |
| , | | | | | | | |
| | | | | | | | |
| · | | | •, | | | | · |
| | | | | | | | |
| | | | <u> </u> | <u> </u> | <u></u> | | |
| 7. Description | n of WorkThis | ECP installed r | oipe spool | with flanges to facilitate | e remo | val of Chec | k Valve |
| | | <u>.</u> | | | | | |
| | | | | | | | |
| 3. Tests Con | ducted: Hydros | latic 🗍 Pneri | matic [| Nominal Operating Pr | ressure | ⊠ Fxem | ot 🗍 |
| | Other | _ | | est Temp. 71°F | . 555ai C | LI LANIII | P-1 |

| visual examination (VT-2) in accordance with 1992 Edition of ASME Section XI Code. Applicable Manufacturer's Data Reports to be attached | |
|---|---------------|
| Appacante Manuacurer's Late reports to be attached | |
| - | |
| | |
| | |
| | |
| | |
| CERTIFICATE OF COMPLIANCE | |
| | |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, ection XI. | |
| pe Code Symbol Stamp Per 1/2 -ADM-0801, ASME XI Repair/Replacement Progeam | |
| To the rolling of the rolling of the political political indicates | |
| rtificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u> | |
| Expiration Date | |
| gned Sanjib K. Mukheride Date 10-16-, 2003 | |
| gned Sanjit/K. Mukherige Date 10-16- 20 0 3 | |
| | |
| 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 Pennsytivania and employed by HSB-CT of | |
| Hartford, Connecticut . have inspected the components described in the | |
| Owner's Report during the period $9-10-03$ to $10-16-03$, and state that to the | |
| sest 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. | |
| and a company of the | |
| 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 employ | |
| ihall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with | 1. |
| his inspection. | |
| | |
| Dean S. hymph Commissions I, I A2384 | |
| Insopicion's Signature National Board, State, Province, and Endorsements | , |
| | |
| Date | 2 |
| | |

| ٦. | OwnerF | irst Energy Nucl | lear Operating C | company D |)ate | 10 | 0/23/03 | |
|------------|--|--|---|--|---|------------|--|--------------------------|
| ٠. | | 6 South Main St | treet – Akron, Ol ORESS) | <u>H 44308</u> S | Sheet <u>1</u> | | of1 | |
| 2. | Plant | | y Power Station | <u> </u> | Jnit No. | i repr | 2 | |
| 1.1 | | (tr | ort, PA 15077 | | Westin | ghouse | P.O. 702482 | 9 |
| *** | | | DRESS) | | | | ation P.O. No., Job No. | مرد و الد |
| 73. | Work Perio | talija i i i i i i i i i i i i i i i i i i | S/Project Manac (NAME) | | ype Code Symi | | | sjás í í |
| | | | ort, PA 15077 ORESS) | | uthorization No Expiration Date | | | |
| Cap of a | | | · · | | e see see al | \ <u> </u> | | |
| | | | | \\^_\ | ot (Clase 1) | - 1 to 1 | the second of th | |
| 4. | Identification | on of System | H ers | teactor Coolan | it (Class I) | Spring 1 | | tare e Taren et La |
| .5. | .(a) Applicabl -(b) -Applicat (c) Applicat | e Construction Code | Section III XI Utilized for Repa | 19 71 Edition | n, <u>\$'72</u> Addenda | , See N | | |
| .5. | .(a) Applicabl .(b) -Applicat .(c) Applicat .Identificati | e Construction Code ole Edition of Section ole Section XI Code on of Componen | Section III XI Utilized for Repa Case(s) Manufacturer | 19 71 Editionality of Replacement 19 70 Property National Board | n, <u>\$72</u> Addenda | See N | Code Case | 9 4/3 91/5 |
| .5. | (a) Applicable (b) - Application (c) Application (dentification (d | le Construction Code ble Edition of Section ble Section XI Code on of Componen | Section III XI Utilized for Repa Case(s) | 19 71 Editionalirs or Replacement | n, <u>\$72</u> Addenda | Yes Bulk | Corrected 19 | V #ASS |
| 5. | (a) Applicable (b) Applicate (c) Applicate Identification Number of Component | e Construction Code ole Edition of Section ole Section XI Code on of Componen Name of Manufacturer | Section III XI Utilized for Repa Case(s) Manufacturer Serial No. | 19 71 Editional Replacement of Repla | n, S72 Addendants 1989 Edition Other | Year Bulk | Connected | Cue of Section 1 |
| 5. | (a) Applicable (b) Applicate (c) Applicate Identification Name of Component | e Construction Code ole Edition of Section ole Section XI Code of on of Componen Name of Manufacturer Westinghouse | Section III XI Utilized for Repa Case(s) Manufacturer Serial No. DMGT-1961 | 19 71 Editional Replacement of Replacement | Other SCOTA | Yes Bulk | Corrected, 188 | V-AS |
| 5. | (a) Applicable (b) -Applicate (c) Applicate Identification Name of Component Steam Generator | e Construction Code ole Edition of Section ole Section XI Code of on of Componen Name of Manufacturer Westinghouse | Section III XI Utilized for Repa Case(s) Manufacturer Serial No. DMGT-1961 | 19 71 Editional Replacement of Replacement | n, S72 Addenda nts 1989 Edition Other Remification 2RCS-SG21A | Yes Bulk | Conceed, The Removed, Seasoned, Corrected | Year Cree |
| 5. | (a) Applicable (b) -Applicate (c) Applicate Identification Mame of Component Steam | e Construction Code cole Edition of Section cole Section XI Code con of Componen Name of Manufacturer Westinghouse | Section III XI Utilized for Repa Case(s) Manufacturer Serial No. DMGT-1961 | 19 71 Editionality of Replacement National Board No. | Odercios 2RCS-SG21A | Yes Bulk | Corrected 188 | Velasion Cree |
| 5. | (a) Applicable (b) -Applicate (c) Applicate Identification Mame of Component Steam | e Construction Code cole Edition of Section cole Section XI Code con of Componen Name of Manufacturer Westinghouse | Section III XI Utilized for Repa Case(s) Manufacturer Serial No. DMGT-1961 | 19 71 Editionality of Replacement National Board No. | Odercios 2RCS-SG21A | Yes Bulk | Corrected Corrected | Velasion Cree |
| 5. | (a) Applicable (b) Applicate (c) Applicate Identification Identifi | e Construction Code cle Edition of Section cle Section XI Code con of Componen Name of Manufacturer Westinghouse | Section III XI Utilized for Repa Case(s) Manufacturer Serial No. DMGT-1961 | 19 71 Editionality of Replacement National Board No. | Odercios 2RCS-SG21A | Yes Bulk | Corrected Corrected | Velasion Cree |

| CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code lection XI. Type Code Symbol Stampper 1/2 ADM-0801. "ASME Section XI Repair/Replacement Program" Derificate of Authorization NoN/AExpiration Date | Manufacturer's Data Reports to be attached | Applicable Manuf |
|--|--|--|
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code ection XI. The period of the ASME Section XI Repair/Replacement Program and the State of Authorization No. NA Expiration Date NA Expir | | |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code cition XI. pe Code Symbol Stampper 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program" per 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program" per 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program" per 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program" CERTIFICATE OF INSERVICE INSPECTION 3A 20 03 CERTIFICATE OF INSERVICE INSPECTION 3A 20 03 CERTIFICATE OF INSERVICE INSPECTION 3A 20 03 In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the State of Province ofPA | Time Time Time Time Time Time Time Time | |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code ction XI. pe Code Symbol Stamp | | |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code ction XI. pe Code Symbol Stampper 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program" rutificate of Authorization NoNA Expiration Date | A transfer groups | essential establishment and the second |
| ction XI. pe Code Symbol Stampper 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program" ritificate of Authorization NoN/A Expiration Date | ATE OF COMPLIANCE | CERTIFICATE |
| ction XI. De Code Symbol Stampper 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program" Trifficate of Authorization NoN/A Expiration Date | e correct and this conforms to the rules of the ASME Code | ity that the statements made in the report are co |
| certificate of Authorization No. NA Expiration Date NA Certificate of Authorization No. NA Expiration Date NO. NA NAME COMPANION DATE NO. NAME OF COMPANION DESIGNED. Title Certificate Of Inservice Inspection and Pressure Vessel Inspectors and the State of Province of PA and employed by PTB CT of NAME Owner's Report during the period 9-2-03 to 70-29-03 and state that to the 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 or 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 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 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 makes any warranty. | | |
| certificate of Authorization No. NA Expiration Date NA Certificate of Authorization No. NA Expiration Date NO. NA Property Senior Nuclear Advisor Date No. National Board of Boiler and Pressure Vessel Inspectors and the State of Province of PA and employed by PTB CT of NATE NACL CT have inspected the components described in the Owner's Report during the period 9-2-03 to 70-29-03 and state that to the National 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 has a performed examination and corrective measures described in this owner's Report. Furthermore, neither the inspector nor his employer has a performed examination and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer has a performed examination of the ASME Code, Section XI. | SME Section XI Repair/Replacement Program* | ode Symbol Stamo per 1/2 ADM-0801, "ASM |
| CERTIFICATE OF INSERVICE INSPECTION CONTRACTOR OF Province of PA and employed by PJS CT of have inspected the components described in the components described in the components described in the components of the ASME Code, Section XI. Contract of the inspector of the ASME Code, Section XI. Contract of the inspector of the ASME Code, Section XI. Contract of the inspector of the i | Andrew Street, Control of the Contro | N. A. |
| CERTIFICATE OF INSERVICE INSPECTION CONTRACTOR OF Province of PA and employed by PJP CT of have inspected the components described in the contract 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. Contract of 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 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 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 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 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 makes any warranty. | Expiration Date N/A | ate of Authorization No. N/A Ex |
| and employed by HJA CT of have inspected the components described in the owner's Report during the period 7-2-03 to 70-29-03 and state that to the est 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 half be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspector or connected with the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with the inspector in the inspector or connected with the inspector in the | and the second of the second o | |
| owner's Report during the period 9-2-03 to 70-29-03 and state that to the lest 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 has been any manner for any personal injury or property damage or a loss of any kind arising from or connected with | OF INSERVICE INSPECTION | CERTIFICATE OF |
| dest 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 has been any manner for any personal injury or property damage or a loss of any kind arising from or connected with | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by HJA CT of | CERTIFICATE OF indersigned, holding a valid commission issued by the estate of Province of |
| 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 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 than the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with | OF INSERVICE INSPECTION the National Board of Boiler and Pressure Vessel Inspectors and employed by HJB CT of the components described in the | CERTIFICATE OF indersigned, holding a valid commission issued by the state of Province of PA have inspected the |
| 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 hall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by HJB CT of the components described in the | CERTIFICATE OF indersigned, holding a valid commission issued by the state of Province of PA have inspected the day of the period $9-2-03$ |
| examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employers along the inspector of the connected with the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by HJB CT of the components described in the to 20-29-03 and state that to the ned examinations and taken corrective measures described in this | CERTIFICATE OF indersigned, holding a valid commission issued by the state of Province of PA have inspected the report during the period $9-2-03$ my knowledge and belief, the Owner has performed a |
| hall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected will | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by HJA c7 of the components described in the to 70-29-03 and state that to the ned examinations and taken corrective measures described in this the ASME Code, Section XI. | CERTIFICATE OF indersigned, holding a valid commission issued by the state of Province of PA have inspected the have inspected the report during the period 9-2-03 my knowledge and belief, the Owner has performed a Report in accordance with the requirements of the A |
| | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by | CERTIFICATE OF indersigned, holding a valid commission issued by the state of Province of PA ATADICAL CT have inspected the report during the period 9-2-03 I my knowledge and belief, the Owner has performed a Report in accordance with the requirements of the Aming this certificate neither the inspector nor his employed. |
| | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by HJBCT of the components described in the to 70-39-03 and state that to the ned examinations and taken corrective measures described in this the ASME Code, Section XI. Imployer makes any warranty, expressed or implied, concerning the Owner's Report. Furthermore, neither the inspector nor his employer. | CERTIFICATE OF indersigned, holding a valid commission issued by the state of Province of PA have inspected the ATED ALL CT. have inspected the PA have in |
| | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by HJBCT of the components described in the to 70-39-03 and state that to the ned examinations and taken corrective measures described in this the ASME Code, Section XI. Imployer makes any warranty, expressed or implied, concerning the Owner's Report. Furthermore, neither the inspector nor his employer. | CERTIFICATE OF indersigned, holding a valid commission issued by the state or Province of PA ATADICAL CT have inspected the P-2-03 In my knowledge and belief, the Owner has performed a Report in accordance with the requirements of the Aming this certificate neither the inspector nor his employment and corrective measures described in this Owner has performed the inspector nor his employment and corrective measures described in this Owner has been any manner for any personal injury or proper |
| $-1 DA = 3 \times Q$ | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by HJBCT of the components described in the to 70-39-03 and state that to the ned examinations and taken corrective measures described in this the ASME Code, Section XI. Imployer makes any warranty, expressed or implied, concerning the Owner's Report. Furthermore, neither the inspector nor his employer. | CERTIFICATE OF indersigned, holding a valid commission issued by the state or Province of PA ATADICAL CT have inspected the P-2-03 In my knowledge and belief, the Owner has performed a Report in accordance with the requirements of the Aming this certificate neither the inspector nor his employment and corrective measures described in this Owner has performed the inspector nor his employment and corrective measures described in this Owner has been any manner for any personal injury or proper |
| Inspector's Signature Commissions 2, National Board, State, Province, and Endorsements | of Inservice Inspection the National Board of Boiler and Pressure Vessel Inspectors and employed by HJA CT of the components described in the to 70-29-03 and state that to the ned examinations and taken corrective measures described in this the ASME Code, Section XI. Imployer makes any warranty, expressed or implied, concerning the Owner's Report. Furthermore, neither the inspector nor his employer than the components of any kind arising from or connected with the components of the compone | CERTIFICATE OF indersigned, holding a valid commission issued by the state or Province of PA ATADICAL CT have inspected the P-2-03 In my knowledge and belief, the Owner has performed a Report in accordance with the requirements of the Aming this certificate neither the inspector nor his employment and corrective measures described in this Owner has performed the inspector nor his employment and corrective measures described in this Owner has been any manner for any personal injury or proper |

ale view of the even of the second of the purious per

| | FORM NIS-2 OV | VNER'S REPOR | T FOR REPA | AIRS/REP | LACEM | ENT A | CTIVITY | |
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| er en | | ired by the Prov | | | | | | ** *********************************** |
| Owner | First Energy Nuc | lear Operating C | ompany | Date _ | | 10 | /23/03 | 919-rs nome |
| A AND AND A STREET OF A | 76 South Main S | treet — Akron, Ol | | Sheet _ | 1 | | of1 | |
| Dlank | • | ORESS) | | Unit No. | | participants to the | 2 | |
| Plant | €N. | v Power Station AME ort, PA 15077 | Andrew Commen | arranana aparana Kilonga (1985) | | house 1 | P.O. 702482 | α |
| Made a Committee of the State of the | Simpolitopi (AD | ORESS) | | Rep | sin/Replaceme | nt Organiza | tion P.O. No., Job N | o., etc. |
| Work Perf | ormed By <u>BVP</u> | S/Project Manac | <u>rement</u> | Type Cod | le Symbo | ol Stam | p <u>N//</u> | <u> </u> |
| _ | | ort, PA 15077 | | Authoriza | tion No. | | N/A | i. Pagin |
| | (AD | ORESS) | | Expiration | Date | | N/A | i. ja |
| Identificati | on of System | F | leactor Coola | nt (Class | 1) | | Ang a | ı. |
| | | Section III | 19 71 Editi | on, \$72 | | See N- | 1 Code Case | |
| er stammenter det sterre | يفخم الزدايع مرادان مراسدتم يداده ويبدد | XI Utilized for Repa | | | | nin raspair (Many) | The second second | وقيسية الدور |
| (c) Applica | ble Section XI Code | Case(s) | gegaga inter profession and assessment The contract of the contract of the contract and the contract of the co | and the second s | | | | onto materiales |
| | ble Section XI Code on of Componen | 7850 (158 45 44) | |) 3 AD (FIX) | 19 5 | | | |
| | | 7850 (158 A) 40 | National Board No. | | her | Year Buik | Corrected, Removed, | ASMi Code Stange (Yes or |
| . Identificati | on of Componen | Manufacturer | National Board | Od Mentif | her Scation | | Removed, | Sump (Yes er |
| Name of Component Steam | Name of Manufacturer | Manufacturer Scrid No. DMGT-1962 | National Board No. W-16599 | Oct Identif | her Teation | Bulk 1977 | Removed, or or lassafled Corrected | Yes |
| Name of Component Steam Generator | Name of Manufacturer Westinghouse | Manufacturer Scriel No. DMGT-1962 | National Board No. W-16599 | Oct Identif | her SG21B | Bulk 1977 | Removed, or or lessaled | Yes er |
| Name of Component Steam Generator | Name of Manufacturer Westinghouse | Manufacturer Serial No. DMGT-1962 | National Board No. W-16599 | Oct Identif | her fication | 1977. | Removed, or or lessaled | Yes er |
| Name of Component Steam Generator | Name of Manufacturer Westinghouse | Manufacturer Serial No. DMGT-1962 | National Board No. W-16599 | Oct Identif | her fication | 1977. | Removed, or or lessaled | Yes er |
| Name of Component Steam Generator | Name of Manufacturer Westinghouse | Manufacturer Serial No. DMGT-1962 | National Board No. W-16599 | Oct Identif | her fication | 1977. | Removed, or or lessaled | Yes or |
| Name of Component Steam Generator | Name of Manufacturer Westinghouse | Manufacturer Scriet No. DMGT-1962 | National Board No. W-16599 | Oct Identif | her fication | 1977 | Removed, or or lessaled | Yes er |
| Name of Components Steam Generator | Name of Manufacturer Westinghouse | Manufacturer Scriet No. DMGT-1962 | National Board No. W-16599 | 2RCS- | her fication SG21B | 1977: | Removed. or Installed Corrected | Yes er |
| Name of Components Steam Generator | Name of Manufacturer Westinghouse | Manufacturer Scriel No. DMGT-1962 | National Board No. W-16599 | 2RCS | SG21B | 1977 | Removed. Installed Corrected | Yes are the second seco |
| Name of Component Steam Generator | Name of Manufacturer Westinghouse | Manufacturer Scriet No. DMGT-1962 | National Board No. W-16599 | 2RCS | SG21B | 1977 | Removed. Installed Corrected | Yes or Ye |

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| The second secon | Applicable Manufacturer's Data R | eports to be attached | on which saids |
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| en e | | an signericent | Term |
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| · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | The second of th | |
| | 1.603 | | sot |
| | CERTIFICATE OF COM | PLIANCE | |
| | ing meditive for the property of the majority of the property | | |
| I certify that the statements managed Section XI. | ade in the report are correct and the | nis conforms to the rules of the AS | ME Code, |
| Type Code Symbol Stampper | r 1/2 ADM-0801, "ASME Section X | (I Repair/Replacement Program* | |
| The same of the s | | Section 1 | |
| Certificate of Authorization No. | NA Expiration Date | e NA | <u></u> |
| | CERTIFICATE OF INSERVICE | INSPECTION | 13 A 14 |
| | | | COURCEUM |
| | commission issued by the National Box | | ectors |
| | and employe | | of |
| HARTFORD, CT. | have inspected the components 9-2-03 to | 71-29-03, and state | that to the |
| Owner's Report during the period | | THE PROPERTY OF THE PROPERTY OF THE | o de provincia de la compansión de la comp |
| Owner's Report during the period best of my knowledge and belief, it | | | |
| best of my knowledge and belief, the | ne Owner has performed examinations the requirements of the ASME Code, | | ice in this |
| best of my knowledge and belief, it Owner's Report in accordance with | the requirements of the ASME Code, | Section XI. | 10011 |
| best of my knowledge and belief, it Owner's Report in accordance with By signing this certificate neither th | | Section XI. y warranty, expressed or implied, con | ceming the |
| best of my knowledge and belief, it Owner's Report in accordance with By signing this certificate neither th examinations and corrective measures that be liable in any manner for an | the requirements of the ASME Code, | Section XI. ny warranty, expressed or implied, core Furthermore, neither the inspector no | ceming the |
| best of my knowledge and belief, it Owner's Report in accordance with By signing this certificate neither th examinations and corrective measi | the requirements of the ASME Code, inspector nor his employer makes as ures described in this Owner's Report. | Section XI. ny warranty, expressed or implied, core Furthermore, neither the inspector no | ceming the |
| best of my knowledge and belief, it Owner's Report in accordance with By signing this certificate neither th examinations and corrective measures that be liable in any manner for an | the requirements of the ASME Code, inspector nor his employer makes as ures described in this Owner's Report. | Section XI. ny warranty, expressed or implied, core Furthermore, neither the inspector no | ceming the |

| | | (A) a | a) s-8/1/2010 | | orm No | 1669 | • • |
|---|--|--|--|--|-------------------|---------------------------------------|---------------------------------------|
| | | /NER'S REPOR | | ASME Code Se | | | mes e |
| 1. Owner _F | irst Energy Nuc | lear Operating C | ompany D | ate | 10 | /23/03 | 24000 |
| | 6 South Main St | reet - Akron, Of press) | <u>1 44308</u> S | heet <u>1</u> | | of1 | |
| 2. Plant | (N | y Power Station AME) GOVERNMENT ort, PA 15077 | | nit No | nhouse I | 2 P.O. 7024829 | |
| | (AD | DRESS) | Margaret (1.5) Ling Margaret (1.5) | Repain/Replacem | ent Organiza | don P.O. No., Job No | ., etc. |
| 3. Work Perfo | med By <u>BVP</u> | S/Project Manac | rement T | ype Code Symb | ol Stam | p <u>N/A</u> | 1 10 Marie |
| | | ort, PA 15077 | A | uthorization No. | · | N/A | al sayî |
| | (AD | ORESS) | | xpiration Date | | N/A | |
| 4. Identification | on of System | R | leactor Coolan | t (Class 1) | | 4.6 | |
| 5. (a) Applicable | e Construction Code | Section III | 19 71 Editlor | . S72 Addenda. | See N- | 1 Code Case | , issue 4 |
| | | XI Utilized for Repair | rational and the second | | The second second | | |
| 6. Identificati | on of Componen | and the second of the second o | i de la | | | | |
| 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 |
| Steam Generator | Westinghouse | DMGT-1963 | | 2RCS-SG21C | 1977 | Corrected | b.Yes |
| | | entante a la compania de la compania | AND THE STREET | and the second second | Sept Collection | e e e e e e e e e e e e e e e e e e e | reid in |
| Takabar | ক্ষেত্ৰ কি শিক্ষিক সাম্ব প্ৰতিক্ৰ | 计图象分析 电学电路 | | STATE OF STATE | | ୍ୟ କ୍ଷିକ୍ତିୟୁଣ୍ଡି । ୧୯୯୭) | no ari |
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| 7. Descriptio | | talled 40 Inconel | | • | | | |
| • | <u>Ins</u> | talled new gasket | s on primary m | anways & secon | dary side | e 2.0" inspecti | on ports. |
| 8. Tests Con | ducted: Hydro | | · · · · — | ominal Operatin | • | ure 🗵 Exem | pt 🗖 |

| Remarks ASME work order | 200018614 | राज्यात्र । श्र}ः भोजन्यसम्बद्धाः | رو النور و الن | na - AMME - A A を放きなっ た AmME - A A A | |
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| Homano Home work order | Applicable Ma | | orts to be attached | | ······································ |
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| | CERTIFICAT | re of compl | JANCE | | • |
| | 3.3 | | | معتدات بالأكواسية لمستو | |
| I certify that the statements mad | in the report are | correct and this | conforms to t | he rules of the ASME | Code, |
| ction XI. | | • | • | 4 | |
| pe Code Symbol Stampper 1. | D ADM 0901 *AS | NE Soction YI | Bonair/Poplac | omont Broamm | |
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| rtificate of Authorization No | NA | Expiration Date | | N/A | |
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| | at the district | A Section 1 | ्र जीवार के स्थापन | | |
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| | • | F INSERVICE D | ASPECTION | nego se nakon se nego se nakon se | |
| the undersigned, holding a valid con | CERTIFICATE O | he National Board | of Boiler and P | ressure Vessel Inspecto | |
| the undersigned, holding a valid con | CERTIFICATE O | he National Board _ and employed I | of Boiler and P | ressure Vessel Inspecto | |
| HALTE OR C CT | CERTIFICATE O | he National Board and employed I | of Boiler and P | ressure Vessel Inspecto C 7 of od in the | en e |
| nd the State or Province of | CERTIFICATE O | he National Board and employed I | of Boiler and P | ressure Vessel Inspecto C 7 of od in the | en e |
| the undersigned, holding a valid condition of the State of Province of the CT of the CT of the Period the peri | CERTIFICATE Of the property o | he National Board _ and employed to spected the comp | of Boller and P by <u>HIB</u> conents describe | ressure Vessel Inspector CT of od in the 7-03, and state that | to the |
| nd the State or Province of HARTE OR CT Dwner's Report during the period est of my knowledge and belief, the | CERTIFICATE Of the state of the | he National Board _ and employed I spected the comp to d examinations as | of Boller and P by <u>HIB</u> conents describe 10-21 | ressure Vessel Inspector CT of od in the 7-03, and state that | to the |
| nd the State or Province of HARTE OR CT Dwner's Report during the period est of my knowledge and belief, the | CERTIFICATE Of the state of the | he National Board _ and employed I spected the comp to d examinations as | of Boller and P by <u>HIB</u> conents describe 10-21 | ressure Vessel Inspector CT of od in the 7-03, and state that | to the |
| ind the State or Province of HALTE O.C. C. T. Owner's Report during the period est of my knowledge and belief, the owner's Report in accordance with the | CERTIFICATE Of the control of the control of the control of the certain ce | he National Board _ and employed I spected the comp to d examinations as e ASME Code, Se | of Boller and Poy <u>HIB</u> conents describe 10 ~ 2 5 and taken correct action XI. | ressure Vessel Inspector CT of od in the 2-03, and state that the dive measures described | to the in this |
| Ind the State or Province of HALTE O.C. C. T. Dwner's Report during the period est of my knowledge and belief, the opening the Report in accordance with the lay signing this certificate neither the lay | CERTIFICATE Of the series of the sepector nor his emp | he National Board _ and employed I spected the comp _ to d examinations are a ASME Code, Se | of Boiler and P by <u>HIB</u> conents describe not taken correct action XI. | ressure Vessel Inspector C. 7 of od in the 2 - 0.3, and state that the ive measures described assed or implied, concern | to the in this |
| HARTE OF CT Owner's Report during the period | CERTIFICATE Of the mission issued by the mission is a described in this Office is a described | he National Board and employed I spected the comp to d examinations are e ASME Code, Se sloyer makes any | of Boiler and P by <u>HJB</u> conents describe nd taken correct action XI. warranty, expresurthermore, neit | ressure Vessel Inspector CT of of od in the 2 of od and state that the diverged of implied, concern the the inspector nor his | to the in this ing the employer |
| where the state of Province of HARTE OR CT Owner's Report during the period est of my knowledge and belief, the owner's Report in accordance with the owner's Report during the period end of the owner's Report in accordance with the owner's R | CERTIFICATE Of the mission issued by the mission is a described in this Office is a described | he National Board and employed I spected the comp to d examinations are e ASME Code, Se sloyer makes any | of Boiler and P by <u>HJB</u> conents describe nd taken correct action XI. warranty, expresurthermore, neit | ressure Vessel Inspector CT of of od in the 2 of od and state that the diverged of implied, concern the the inspector nor his | to the in this ing the employer |
| ond the State or Province of HALTE O.C. C. T. Owner's Report during the period est of my knowledge and bellef, the owner's Report in accordance with the company of the continuation of | CERTIFICATE Of the mission issued by the mission is a described in this Office is a described | he National Board and employed I spected the comp to d examinations are a ASME Code, Se sloyer makes any when's Report. Fi sperty damage or a | of Boiler and P by HSB conents describe 10-21 and taken correct action XI. warranty, expresurthermore, neit a loss of any kin | ressure Vessel Inspector CT of of od in the 2 of od and state that the diverged of implied, concern the the inspector nor his | to the in this ing the employer |
| where Report during the period | certificate of the spector nor his emperoral injury or pro | he National Board and employed I spected the comp to d examinations are e ASME Code, Se sloyer makes any | of Boiler and P by HSB conents describe 10-24 and taken correct action XI. warranty, express urthermore, neit a loss of any kin | ressure Vessel Inspector CT of od in the 2-03, and state that live measures described ssed or implied, concern ther the inspector nor his od arising from or connec | to the in this ing the employer sted with |
| wher's Report during the period | certificate of the spector nor his emperoral injury or pro | he National Board and employed I spected the comp to d examinations are a ASME Code, Se sloyer makes any when's Report. Fi sperty damage or a | of Boiler and P by HSB conents describe 10-24 and taken correct action XI. warranty, express urthermore, neit a loss of any kin | ressure Vessel Inspector CT of of od in the 2 of od and state that the diverged of implied, concern the the inspector nor his | to the in this ing the employer sted with |

| Form No. | 1671 |
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| . Owner _ | F.E.N.O.C. | | | Date | | 12/08/03 | |
|----------------------|-------------------------|----------------------------|-----------------------|--|---------------|---|---|
| 76 South | h Main Street - Al | ron, OH 44 | 308 | Sheet | 1 | of | <u>1</u> |
| . Plant | * | Power Stati | on | Unit No. | | 2 | |
| | Shippingport, I | PA 15077 | | 05040 | Orde | er # 200028558 ATION P.O. NO., JOB NO., | |
| . Work Pe | rformed By <u>BVP</u> | S - Nuclear | Construction | | | Stamp Not A | |
| | Shippingport, I | PA 15077 | | Authorization | No. | N/A | |
| | (ADORESS) | | | Expiration Da | | u | |
| . Identifica | ition of System | Reactor | Coolant | • | · · | | |
| (b) Applica | able Edition of Section | XI Utilized for I | Repairs or Repla | 1 Edition, <u>W72</u> Addendates 1989E 1 and Replacement | •, | nponents | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, Or Replacement | ASME Code Stampe (YES (NO) |
| Snubber | Pacific Scientific | 16954 | N/A | 2RCS-PSSP011X | | Replaced | No |
| Snubber | Pacific Scientific | 3695 | N/A | 2RCS-PSSP011X | | Replacement | No |
| Snubber | Pacific Scientific | 18492 | N/A | 2RCS-PSSP017X | | Replaced | No |
| Snubber : | Pacific Scientific | 15878 | N/A | 2RCS-PSSP017X | | Replacement | No |
| Snubber | Pacific Scientific | 6267 | N/A | 2RCS-PSSP896 | | Replaced | No |
| Snubber | Pacific Scientific | 30038 | N/A | 2RCS-PSSP896 | | Replacement | No |
| | | | | · | | | |
| | | | | | | | |
| ٠. ١ | | | | | | | |
| . Descripti | ion of Work Re | placed snut | ober with spa | are for testing/refu | bishm | ent purposes. | |
| . Tests Co | onducted: Hydro | estatic | Pneumati | c Nominal | Opera | ting Pressure | |

| 9. Remarks The snubber was replaced with a used spare from stock. No Code Data Reports are, |
|--|
| available. Snubbers are considered non-NF components (non-code). |
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| CERTIFICATE OF COMPLIANCE |
| |
| We certify that the statements made in the report are correct and this Replacement conforms |
| to the rules of the ASME Code Section XI. Repair Or Replacement |
| Type Code Symbol Stampper_1/2-ADM-0801 "ASME Section XI Repair/Replacement Program" |
| Certificate of Authorization No. NA Expiration Date NA |
| Control of Administration of the Control of the Con |
| Signed Kobert Brooks Date Dec. 8 20 03 |
| Owner or Owner's Designee, Title |
| |
| CERTIFICATE OF INSERVICE INSPECTION |
| 1 May understand the letter a until decomplesion to sund by the Matternal Decord of Delter and Descript Vessel Januaries |
| I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province ofPennsylvania and employed byHSB.CT of |
| Hartford, CT have inspected the components described in the |
| Owner's Report during the period $9-15-03$ to $12-8-03$, 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. |
| |
| Dean S. Kyroke Commissions I, N. PA2384 |
| Inspector a Signature National Board, State, Province, and Endorsements |
| |
| Date 12-8-, 20 03 |

| Form No. | 1672 | |
|----------|------|--|

| 1. Owner | F.E.N.O.C. | | ` | Date | | 12/08/03 | |
|-------------------------|--------------------------------|----------------------------|--|--|---------------|---|---|
| · · · · · · · · · · · · | (NAME) | | | | | | |
| 76 South | n Main Street - A (ADDRESS) | kron, OH 44 | 308 | Sheet | 1 | of | 1 |
| 2. Plant | Beaver Valley | Power Stati | on | Unit No | | 2 | |
| | Shippingport, | PA 15077 | · , | REPAIR | Orde | er # 200028624 Zation P.O. No., Job No., | ETC. |
| . Work Per | formed By <u>BVI</u> | PS - Nuclear (NAME) | Construction | | , | Stamp Not A | |
| | Shippingport, | PA 15077 | | Authorization | No. | N/A | · · · · · · · · · · · · · · · · · · · |
| | (ADDRESS) | | | Expiration Da | ate _ | 4 | |
| I. Identifica | tion of System | Chemica | and Volume | e Control | | • | |
| (b) Applica | ble Edition of Section | XI Utilized for F | Repairs or Repla | 1 Edition, <u>W72</u> Addendatements 1989E | • | N/A Code Case | 9 |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, Or Replacement | ASME Code Stamped (YES or NO) |
| Snubber | Lisega | 61211/70 | N/A | 2CHS-PSSP017X | | Replaced | No |
| Snubber | Lisega | 61211/38 | N/A | 2CHS-PSSP017X | | Replacement | No |
| Snubber | Lisega | 61211/38 | N/A | 2CHS-PSSP025X | ; | Replaced | No |
| Snubber.et | Lisega | 61211/70 | N/A | 2CHS-PSSP025X | | Replacement | No |
| | | | | | | | |
| | | | | | | 1 | |
| | · | | <u>. </u> | •. | | | |
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| | | | | | | | |
| 7. Descripti | on of Work Re | eplaced snut | ber with spa | are for testing/refur | bishm | ent purposes. | I |
| 3. Tests Co | nducted: Hydro | ostatic Press | Pneumati | | • | ating Pressure | |

| 9. Remarks The snubber was replaced with a used spare from stock. No Code Data Reports are. |
|---|
| available. Snubbers are considered non-NF components (non-code). |
| |
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| |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in the report are correct and this Replacement conforms to the rules of the ASME Code Section XI. |
| Type Code Symbol Stampper 1/2-ADM-0801 "ASME Section XI_Repair/Replacement_Program" |
| Type does dynasi diant per me |
| Certificate of Authorization No. N/A Expiration Date N/A |
| Signed Robert Brooks Date Rec 8 . 20 03 |
| |
| 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 CT of |
| Hartford, CT have inspected the components described in the Owner's Report during the period $\frac{9-15-03}{12-8-03}$ to $\frac{12-8-03}{12-8-03}$, 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 flable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. |
| Dean S. Try Commissions I, N PA2384 Inspector Signature Commissions T, National Board, State, Province, and Endorsements |
| Date 12-8- , 20 03 |

| Form No. | 1673 | |
|------------|------|--|
| FOIIII NO. | 1073 | |

| | | | | | | | |
|-------------------|--------------------------|----------------------------|-----------------------|---|---------------|---|---|
| 1. Owner _ | F.E.N.O.C. | | <u> </u> | Date | | 12/08/03 | |
| 76 South | Main Street - Al | (ron, OH 44: | 308 | Sheet | 1 | of1 | i |
| 2. Plant | | | | Unit No | | 2 | |
| <u> </u> | Shippingport, I | PA 15077 | · · | REPAIR | | er # 200028697 ZATION P.O. NO., JOB NO., | ETC. |
| 3. Work Per | formed By <u>BVP</u> | S - Nuclear | Construction | <u>n. </u> | ymbo | Stamp Not A | pplicable |
| | Shippingport, I | PA 15077 | ·* . · · | Authorization | No | . N/A | |
| | (ADDRESS) | | | Expiration Da | ate _ | 4 . | |
| 4. Identifica | tion of System | Containn | nent Depress | surization | | | |
| 5. (a) Applica | ble Construction Code | Sec | tion 19 <u>7</u> | 1 Edition, <u>W72</u> Addend | la, | N/A Code Case | • |
| (b) Applica | ble Edition of Section | XI Utilized for F | Repairs or Repla | acements 1989E | • | | |
| 6. Identifica | tion of Componer | nts Repaired | or Replaced | and Replacemen | ts Cor | nponents | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, Or Replacement | ASME Code Stamped (YES or NO) |
| Snubber | Pacific Scientific | 29989 | N/A | 2QSS-PSSP131Y | | Replaced | No |
| Snubber | Pacific Scientific | 16260 | N/A | 2QSS-PSSP131Y | | Replacement | No |
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| | | | | | | | |
| 7. Descripti | on of Work Re | eplaced snut | ber with spa | are for testing/refur | bishm | ent purposes. | |
| 8. Tests Co | onducted: Hydro Other | ostatic Press | Pneumati | | - | ating Pressure | |

| 9. Remarks The snubber was replaced with a used spare from stock | . No Code Data Reports are. |
|---|---|
| available. Snubbers are considered non-NF components (non-components) | ode). |
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| | |
| CERTIFICATE OF COMPLIANCE | |
| | |
| We certify that the statements made in the report are correct and this | Replacement conforms |
| to the rules of the ASME Code Section XI. | Repair Or Replacement |
| Type Code Symbol Stamp per 1/2-ADM-0801 "ASME Section XI Repair | r/Replacement Program* |
| | |
| Certificate of Authorization No. N/A Expiration Date | NA |
| Signed Robert Brook Date Date | Dec 8 . 20 03 |
| | |
| | |
| CERTIFICATE OF INSERVICE INSPECTIO | DN |
| I, the undersigned, holding a valid commission issued by the National Board of Boiler a | and Pressure Vessel Inspectors |
| and the State or Province of Pennsylvania and employed by HSB CT | of |
| Hartford, CT have inspected the components de Owner's Report during the period 7-/5-03 to /2- | |
| Owner's Report during the period $\frac{9-35-03}{2}$ to $\frac{22-3}{2}$ best of my knowledge and belief, the Owner has performed examinations and taken or | -8-03, and state that to the |
| 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, or | • |
| examinations and corrective measures described in this Owner's Report. Furthermore shall be liable in any manner for any personal injury or property damage or a loss of an | • |
| this inspection. | ny fara arong non-or-oratorous man |
| | |
| Delan I. higher Commissions I | 1 Pazzer |
| Inspectors Signature Commissions Nationa | al Board, State, Province, and Endorsements |
| | |
| Date | |

| Form No. | _ 1674 | |
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| | | |

| 1 04 | F.E.N.O.C. | | | Date | | 12/08/03 | |
|----------------------|---------------------------------|---------------------------|---------------------------------------|---|-----------------|---|---|
| 1. Owner _ | (NAME) | | | Date | | 12/06/03 | |
| 76 Sout | h Main Street — Al (ADDRESS) | <u>cron, OH 44</u> | 308 | Sheet | 1 | of | 1 |
| 2. Plant | Beaver Valley (NAME) | Power Stati | on | Unit No. | | 2 | |
| | Shippingport, I | PA 15077 | : | REPAIR | Orde ORGANIZ | r # 200028703 Ation P.O. No., JOB No., | ETC. |
| 3. Work Pe | formed By _BVP | S - Nuclear | Construction | n. Type Code S | Symbol | Stamp Not A | policable |
| | Shippingport, | PA 15077 | · · · · · · · · · · · · · · · · · · · | Authorization | No | N/A | .; |
| | (ADDRESS) | | | Expiration D | ate _ | | |
| . Identifica | tion of System | Residual | Heat Remov | val | | | |
| (b) Applica | able Edition of Section | XI Utilized for F | Repairs or Repla | 1 Edition, <u>W72</u> Addendracements 1989E | : - | nponents | |
| Name of Component | Name of Manufacturer | Manufacturer Sedal No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, Or Replacement | ASME Code Stamped (YES or NO) |
| Snubber | Pacific Scientific | 15876 | N/A | 2RHS-PSSP007 | | Replaced | No |
| Snubber | Pacific Scientific | 6268 | N/A | 2RHS-PSSP007 | | Replacement | No |
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| '. Descripti | ion of Work <u>Re</u> | placed snut | ober with spa | are for testing/refu | rbishm | ent purposes. | |
| 3. Tests Co | onducted: Hydro | ostatic Press | Pneumati | | - | ting Pressure | |

| 9. Remarks The snubber was replaced with a used spare from stock. No Code Data Reports are. |
|--|
| available. Snubbers are considered non-NF components (non-code). |
| |
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| |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in the report are correct and this to the rules of the ASME Code Section XI. Repair or Replacement |
| Type Code Symbol Stamp per 1/2-ADM-0801 "ASME Section XI Repair/Replacement Program" |
| Certificate of Authorization No. N/A Expiration Date N/A |
| Signed Robert Brooks Date Dec 8 , 20 03 |
| |
| 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 the Covner's Report during the period 9-15-03 to 12-8-02, 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. |
| Dear J. Digital Commissions I, N, PA2384 Inspector Signature Commissions I National Board, State, Province, and Endorsements |
| Date |

| Form | No | 1675 | |
|------|------|------|--|
| COM | IVU. | 10/3 | |

| 1. Owner _ | F.E.N.O.C. | | | Date | | 12/08/03 | |
|-----------------|---------------------------|----------------------------|-----------------------|--|--|--|------------------|
| 76 Sout | h Main Street – Al | cron, OH 44 | 308 | Sheet | 1 | of 1 | · . L |
| | (ADORESS) | | | | | | |
| 2. Plant | Beaver Valley (NAME) | Power Stati | ion | Unit No | | 2 | |
| | Shippingport, I | PA 15077 | | | Orde | er # 200028716 | |
| 2 Work Do | (ADDRESS) rformed By BVP | S Nuclear | Construction | • | | ZATION P.O. NO., JOB NO., I Stamp Not A | * |
| S. WOIK FE | nomed by <u>byr</u> | (NAME) | Construction | i. Type Code o | - yr i ioo | Gamp Nock | ppicable |
| | Shippingport, I | PA 15077 | · · | Authorization | No | N/A | • '• ' |
| | | | | Expiration D | ate _ | | |
| 4. Identifica | tion of System | Safety In | jection | · · · · · · · · · · · · · · · · · · · | | | |
| | | | | | da, | N/A Code Case |) |
| (b) Applica | able Edition of Section | XI Utilized for I | Repairs or Repla | cements 1989E | - | en e | |
| 6. Identifica | tion of Componer | nts Repaired | i or Replaced | l and Replacemer | its Cor | nponents | |
| | | | | | F | Repaired, | ASME |
| Name of | Name of | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Replaced, Or Replacement | Code Stamped |
| Component | Manufacturer | . Senar No. | NO. | SCHOOL STATE OF THE SCHOOL | DUAL | reparement | (YES or . NO) |
| Snubber | Pacific Scientific | 30039 | N/A | 2SIS-PSSP358Y | | Replaced | No |
| Snubber | Pacific Scientific | 29989 | N/A | 2SIS-PSSP358Y | | Replacement | No |
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| 7 Descripti | ion of Work Re | nlaced soul | bber with sna | re for testing/refu | hishm | ent numoses | |
| 2000 ipu | | | | | | | |
| | | | | | | | |
| 8. Tests Co | onducted: Hydro | ostatic 🔲 | Pneumati | c Nominal | Opera | tting Pressure 🗌 | |
| | Other | Press | sure | psi Test | Temp. | °F | |

| 9. Remarks The snubber was replaced with a used spare from stock. No Code Data Reports are, |
|--|
| available. Snubbers are considered non-NF components (non-code). |
| |
| <u> </u> |
| |
| CERTIFICATE OF COMPLIANCE |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in the report are correct and this Replacement conforms to the rules of the ASME Code Section XI. |
| Type Code Symbol Stamp per 1/2-ADM-0801 "ASME Section XI Repair/Replacement Program" |
| Certificate of Authorization No. NA Expiration Date NA |
| Signed Robert Bisses Date Dec 8 , 20 03 |
| |
| 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 CT of |
| Hartford, CT have inspected the components described in the |
| Owner's Report during the period $9-/5-03$ to $/2-8-03$, 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. |
| Cilia Criapar in accordance man tro requirements of the recipient code, coolean rail. |
| 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 flable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. |
| Dean S. During Commissions I P 42384 Inspector's Structure Commissions I National Board, State, Province, and Endorsements |
| Date |

| Form | No | 1676 | |
|--------|------|------|--|
| FUIIII | IVU. | 10/0 | |

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|---------------------------------------|--|----------------------------|-----------------------|--|-----------------|---|---|
| 1. Owner | F.E.N.O.C. | | | Date | | 12/08/03 | |
| 76 South | n Main Street - Al | kron, OH 44 | 308 | Sheet | 1 | of | 1 |
| 2. Plant | Beaver Valley | Power Stati | on | Unit No | | 2 | |
| | Shippingport, (ADDRESS) | PA 15077 | | REPAIR | Orde ORGANIZ | er # 200028726 ATION P.O. NO., JOB NO., | ETC. |
| 3. Work Pe | rformed By BVF | S - Nuclear | Construction | | • | Stamp Not A | |
| | Shippingport, (ADDRESS) | PA 15077 | | | | N/A | |
| 4. Identifica | tion of System | Safety In | iection | , Expiration D | _ | | |
| (b) Applica | ble Edition of Section | XI Utilized for I | Repairs or Repla | 1 Edition, <u>W72</u> Addendracements <u>1989E</u> I and Replacemen | - | N/A Code Case | 9 • |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Reptaced, Or Replacement | ASME Code Stamped (YES or NO) |
| Snubber | Pacific Scientific | 25708 | N/A | 2SIS-PSSP014A | *** | Replaced | No |
| Snubber | Pacific Scientific | 20931 | N/A | 2SIS-PSSP014A | | Replacement | No |
| | | | | | | | |
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| | *** | | | | | | <u> </u> |
| 7. Descripti | on of Work <u>Re</u> | placed snut | ober with spa | are for testing/refu | <u>bishm</u> | ent purposes. | |
| 8. Tests Co | nducted: Hydro Other | ostatic 🗌 | Pneumati | | - | ting Pressure of | |

| 9. Remarks The snubber was replaced with a used spare from stock. No Code Data Reports are, |
|--|
| available. Snubbers are considered non-NF components (non-code). |
| |
| |
| •• |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in the report are correct and this Replacement conforms to the rules of the ASME Code Section XI. |
| Type Code Symbol Stamp per 1/2-ADM-0801 "ASME Section XI Repair/Replacement Program" |
| Certificate of Authorization No. NA Expiration Date NA : |
| Signed Robert Brooks Date Rec 8 , 20 03 |
| |
| 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 the Covner's Report during the period 9-15-03 to 12-8-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. |
| By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. N. P. 2389 National Board, State, Province, and Endorsements |
| Date |

| Form No. | 1677 | |
|--------------|------|--|
| 1 01111 110. | 1011 | |

| | | | <u></u> | | | | |
|---------------------------------------|--------------------------|----------------------------|-----------------------|---|---------------|---|---|
| 1. Owner _ | F.E.N.O.C. | | · | Date | | 12/08/03 | |
| 76 Sout | h Main Street - Al | <u>(ron, OH 44:</u> | 308 | Sheet | <u> </u> | of1 | <u> </u> |
| . Plant | Beaver Valley | Power Station | o <u>n</u> | Unit No. | | 2 | ···- |
| | Shippingport, (ADDRESS) | PA 15077 | *** | REPAIR | Orde | r # 200028730 ATION P.O. NO., JOB NO., | ETC. |
| . Work Pe | rformed By <u>BVF</u> | S - Nuclear | | | · | Stamp Not Ar | 1.14 |
| | Shippingport, I | PA 15077 | | Authorization | No | N/A | · |
| | (ALUMESS) | | . • | Expiration Da | ate _ | . * | · · · · · · · · · · · · · · · · · · · |
| Identifica | tion of System | Safety In | <u>iection</u> | | | | |
| (b) Applica | ble Edition of Section | XI Utilized for F | Repairs or Repla | 1 Edition, <u>W72</u> Addenoted the second | -115 · | | * |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Replaced, Or Replacement | ASME Code Stamped (YES or NO) |
| Snubber | Pacific Scientific | 25313 | N/A | 2SIS-PSSP450X | | Replaced | No |
| Snubber | Pacific Scientific | 19385 | N/A | 2SIS-PSSP450X | : | Replacement | No |
| | | | | | | | |
| · | i Anato | | | | | · . | |
| · · · · · · · · · · · · · · · · · · · | | \$ 1. \$ 2 | • | | | | |
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| . Descripti | ion of Work Re | placed snub | ber with spa | re for testing/refur | bishm | ent purposes. | |
| | | | | | | | |
| 3. Tests Co | onducted: Hydro Other | ostatic Press | Pneumati ure | | - | ting Pressure | |

| 9. Remarks The snubber was replaced with a used spare from stock. No Code Data Reports are, |
|--|
| available. Snubbers are considered non-NF components (non-code). |
| |
| |
| |
| CERTIFICATE OF COMPLIANCE |
| |
| We certify that the statements made in the report are correct and this Replacement conforms to the rules of the ASME Code Section XI. |
| Type Code Symbol Stamp per 1/2-ADM-0801 "ASME Section XI_Repair/Replacement_Program" |
| |
| Certificate of Authorization No. N/A Expiration Date N/A |
| Signed Robert Brooks Date Dec. 8 , 20 03 |
| |
| CERTIFICATE OF INSERVICE INSPECTION |
| I, the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors |
| and the State or Province of Pennsylvania and employed by HSBCT of |
| Hartford, CT have inspected the components described in the |
| Owner's Report during the period $9-15-63$ to $12-8-93$, 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 table in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. |
| Dear J. Digrik Commissions Z.N. Pa2384 Inspectory Signature Commissions And Endorsements |
| Date |

| For | m No. | 1678 | |
|-----|-------|------|--|
| | | | |

| 1. Owner _ | F.E.N.O.C. | | | Date | | 12/08/03 | |
|----------------------|--|----------------------------|-----------------------|--|-----------------|---|---|
| 76 Sout | h Main Street - Al | cron, OH 44 | 308 | Sheet | 1 | of | <u> </u> |
| 2. Plant | Beaver Valley | Power Stati | on | Unit No | | 2 | <u> </u> |
| - ; | Shippingport, (ADDRESS) | PA 15077 | | REPAIR | Orde ORGANIZ | er # 200028738 Zation P.O. No., Job No., | ETC. |
| 3. Work Pe | rformed By <u>BVF</u> | S - Nuclear | | • | | Stamp Not A | |
| | Shippingport, (ADDRESS) | PA 15077 | | Authorization | No | N/A | , |
| • | 1 / / | | | Expiration Da | ate _ | * | |
| 4. Identifica | tion of System | Service \ | <u>Nater</u> | | | | · · · · · · · · · · · · · · · · · · · |
| | able Construction Code able Edition of Section | | | 1 Edition, <u>W72</u> Addendacements 1989E | la, | N/A Code Case | • |
| 6. Identifica | ution of Componer | nts Repaired | or Replaced | and Replacemen | ts Con | nponents | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification | Year Built | Repaired, Reptaced, Or Reptacement | ASME Code Stamped (YES or NO) |
| Snubber | Pacific Scientific | 17210 | N/A | 2SWS-PSSP752 | - | Replaced | No |
| Snubber | Pacific Scientific | 10962 | N/A | 2SWS-PSSP752 | | Replacement | No |
| Snubber | Pacific Scientific | 30290 | N/A | 2SWS-PSSP766A | | Replaced | No |
| Snubber | Pacific Scientific | 18676 | N/A | 2SWS-PSSP766A | | Replacement | No |
| | | | | | | | |
| | · | | | | | · · · · · · · · · · · · · · · · · · · | · |
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| 7. Descripti | on of Work Re | placed snut | ober with spa | re for testing/refur | bishm | ent purposes. | |
| | | | · | · · · · · · · · · · · · · · · · · · · | | | |
| 8. Tests Co | onducted: Hydro Other | ostatic 🗌 | Pneumati | | • | ting Pressure | |

| 9. Remarks The snubber was replaced with a used spare from stock. No Code Data Reports are. |
|---|
| available. Snubbers are considered non-NF components (non-code). |
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| |
| CERTIFICATE OF COMPLIANCE |
| We certify that the statements made in the report are correct and this Replacement conforms to the rules of the ASME Code Section XI. |
| Type Code Symbol Stamp per 1/2-ADM-0801 "ASME Section XI Repair/Replacement Program" |
| Certificate of Authorization No. NA Expiration Date NA |
| Signed Robert Brooks Date Dec. 8 , 20 03 |
| |
| 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 <u>Pennsylvania</u> and employed by <u>HSB CT</u> of Hartford, CT have inspected the components described in the |
| Owner's Report during the period $9-15-03$ to $12-8-03$, 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. |
| Dean 1. Primit Commissions I. N. P+23P4 Inspector's Structure Commissions National Board, State, Province, and Endorsements |
| Date 12-8-, 20 03 |

| _ | 82 |
|----------|----------------------|
| Form No. | 16 72 |
| | 1672 - Launda, L. |

| 1. Owner | First Energy | <u> </u> | Dat | e | 12/11 | /2003 | |
|----------------------|-------------------------------|----------------------------|-----------------------|-------------------------|--------------|---|--|
| 1 76 South M | lain Street - Akro | on, OH 44308 | She | eet <u>1</u> | of | · | 2 |
| 2. Plant | Beaver Valley Po | ower Station | Uni | t No | | 2 | |
| | Shippingport, PA (ADDRESS) | 15077 | | Work Orc | | 014832-00 n P.O. No., Job N | |
| 3. Work Perfor | med By <u>FENO</u> | C-Maintenance | Тур | e Code Symbo | Stamp | | V/A |
| | Shippingport, PA | 15077 | Aut | horization No | | N/A_ | |
| • | (ADDRESS) | · | Ехр | iration Date _ | | • | |
| | of System | | | . <u>574</u> Addend | | | |
| (b) Applicable | Edition of Section X | I Utilized for Repair | s or Replacements_ | 1989 | | | • |
| (c) Applicable | e Section XI Code Ca | se(s): <u>N/A</u> | 12. | | | | • |
| 6. Identification | n of Components | | | | | ž | |
| Name of Component | Name of Manufacturer | Manufacturer Serial No. | National Bourd No. | Other Identification | Year Buik | Corrected, Removed, or installed | ASME Code Stamped (Yes or No) |
| Check Valve | Mission | B4582 | N/A | 2SWS-57 | 1076 | l | |
| | | 2 (302 | | | 1976 | Removed | Yes |
| Check Valve | Crane Nuclear | D0939 | N/A | 2SWS-57 | 2002 | Installed | Yes |
| | | | | 2SWS-57 | | | |
| Check Valve | | | | 2SWS-57 | | | |
| Check Valve | | | | 2SWS-57 | | | |
| Check Valve | | D0939 | N/A | 2SWS-57 | | | |
| Check Valve | Crane Nuclear | D0939 | N/A | 2SWS-57 | | | |

| Remarks Code Data Report attached, Previous NIS-2 Data Report No. 1443. Applicable Manufacturer's Data Reports to be attached | |
|--|----|
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| CERTIFICATE OF COMPLIANCE | |
| | |
| I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, ection XI. | |
| ype Code Symbol Stamp N/A | |
| The code Cymbol Clamp | |
| ertificate of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u> | |
| 10,02 | |
| igned ACUSE Source Ey Date December 19 , 20 | 03 |
| | |
| 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 CT of | |
| Harford CT. have inspected the components described in the Owner's Report during the period $\frac{\sqrt{2-15-03}}{12-15-03}$ to $\frac{\sqrt{2-19-03}}{12-19-03}$, 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 employ | |
| 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. | • |
| | |
| Dean Shunk Commissions I, N PA2384 Inspector Agnature Commissions I, N PA2384 | |
| Inspectors Egnature National Board, State, Province, and Endorsements | |
| - | |
| Date $12-19-$, 20 03 | |

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

Pg. 1 of 2

| | | | - | | A | | | | | | |
|-------------|---|-----------------|--|--------------------|---------------------------------------|-----------------|---|---|-------------|---------------------------------------|---|
| 1. | Manufactu | red and c | ertified by | CRANE | E Nuclear, Inc., 8 | RAN Remin | aton Boulova | ed Balie | abrook f | 1 60440 | |
| •• | *************************************** | ica aira c | | 01041 | forme | a and address | of NPT Certificat | e Holded | gbiook, i | L 60440 | _ |
| | | | | | | | | e moraet j | | | |
| 2. | Manufactu | red for | First Energy Corporat | ion POE | Box 345 Shinnin | inned PA | 15077 | • | | | |
| | | - | The taken of taken of the taken of tak | | (name s | ind address o | (purchaser) | | | | _ |
| | • | | . • | | 4.500.00 | | · poulla, | | | 200 | |
| -3 . | Location of | installati | On Long Term Storage | Escility S | thinningned Hill Re | nad Shinni | nacot BA 16/7 | 77 | | | |
| • | | , moranac | TEGIN TEIN ORGEN | , , e. | Authorities Int | (name and | eddress) | <u>'' </u> | | | _ |
| | | | • | | 1.5 | frames and | | | | • | |
| 4 | Model No., | Series N | orTwo 15 | SEF-X04 | Drawing | _ | 802839 | Rev. | | COM MA | |
| 4. | 1110001110., | Octors IA | 5., 6. 13pe | | | | 002035 | nev. | 8 | CRN N/A | _ |
| | | | | | | | | - | | | |
| 5. | ASME Cod | a Cadia | n III, Division 1: | 1974 | Sum | mer 1974 | | 3 | | A (() | |
| J. | WHIT COO | e, secuo | ii iii, Division 1. | (edition) | | enda date) | - · · · · · · · · · · · · · · · · · · · | 155) | - | N/A (Code Case no.) | _ |
| | | | , | (acres) | lenne | a kua Galloj | (Ca | 133/ | | (Code Case no.) | |
| 6. | Pump or va | shee. | Duo-Chek Valve | | Nominal inlet s | rira | 30 | Outlet | al-a | 20 | |
| O. | rump or te | | Duo-cliek valve | | . Houman kner a | | (in) | Coulet | SIZE | 30 (in.) | _ |
| | | | | | | | farj. | | | (ar.) | |
| 7. | Material: | | | | | | | | | | |
| | waterial. | | | | 28 11 11 | | | | | | |
| | · (m) | 0-4- | 044441400 | | N/A | 6 1-1- | 040401110 | _ | | SA479 TP 316A | |
| | (a) valve | Body | SA216 WCB | Bonnet | | Disk | SA216.WC | <u> </u> | Bolting | 3A4/9 IP 310A | _ |
| | (b) pump | Casting | N/A | Cover | NA | Bolting | N/A | | | · | |
| | | | | • | | | | - | | | |
| | (a) | | (b) | | (c) | | (d) | | | (e) | |
| | Cert. | | Nati | | Body/Casing | | Bonnet/Cove | er | | Disk | |
| | Holder's | • | Board | | Serial | | Seria! | | | Serial | |
| | Serial No. | | No. | | No. | | No. | | | No. | |
| | | | | - | | | | | | | |
| | D0939 | | NA | | D0940 | 7. · · | NA | | | 0941 & D0942 | ٠ |
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^{*} Supplemental information in the form of Ests, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back) --- Pg. 2 of 2

| | | | Certificate Hold | er's Serial No |) | D0939 | | |
|----------------------|---|---|---------------------------------------|--------------------|-------------------------------------|-----------------------|------------|--|
| 8 | Design conditions | 200 (pressure | Psi 300 (tempera | | or valve pressure | dass A | NSI 150 (1 | |
| 9. | Cold working pressure | 285 | Psi at 100 |)*F | | | | |
| 10. | Hydrostatic test | 450 Ps | i. Disk different | ial test press | ure | 315 | Psi | |
| 11. | Remarks: PO No. 708 Supplier: Dubose, PO #2 Supplier: PRL, PO #2688 | | tainers, Ht. #5645 | 7 | D: VCI-015-C-3 | 102198, RT S | N R642 | |
| | | | | | - | | | |
| | | | | | | | | |
| , | , | CERTIF | FICATION OF DES | SIGN | | | | |
| Desi | gn Specifications certified b | y · Walter Joseph | Parker, Jr. | P.E. State | PA Reg. r | no. <u>2400</u> | 3-E | |
| Desi | gn Report certified by | N/A | | P.E. State | N/A Reg. r | no. <u>N/</u> | <u> </u> | |
| | • | | | | | | | |
| | | CERTIFIC | CATE OF COMPLI | ANCE | | | | |
| of the | ertify that the statements me ASME Code, Section III, I | Division 1. | 2899 | _ Expires | September 24 | | | |
| Date | 10/21/02 Nan | ne CRANE N | | Signed | • | representative) | | |
| | | CERTIF | CATE OF INSPEC | TION | | | | |
| State of and s | undersigned, holding a val t or Province of Johnston, RI state that to the best of my the ASME Code, Section III | Illinois a have inspected the p knowledge and belief, the | and employed by ump, or valve, des | Factoribed in this | ory Mutual Insura Data Report on | nce Company 10/21/ | 02 . | |
| Com | gning this certificate, neithe ponent described in this Da personal injury or property d | ta Report. Furthermore, | neither the inspec | tor nor his en | nployer shall be li | iable in any m | | |
| Date | 10/21/02 Signed | Authorized Nuclear Inspector James Bush | Commission: | | IL 107 (incl. andorsaments) a | | ind no.) | |

(1) For manually operated valves only.