

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,


L. 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

1047

Inservice Inspection Ninety Day Report

Beaver Valley Power Station Unit 2

Outage 10, Year 2003

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


L. W. Pearce
Site Vice President724-682-5234
Fax: 724-643-8069December 30, 2003
L-03-217U. 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,


L. 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

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

Outage 10, Year 2003

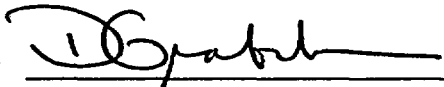
Inspection Term: 2/27/2002 to 10/10/2003

Issue date: 12-22-03


Owner: FirstEnergy
76 South Main St.
Akron, OH 44308

NRC Docket Number: 50-412

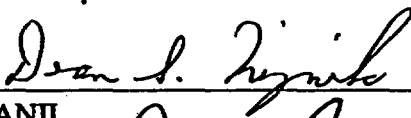
Reactor Supplier: Westinghouse Electric Corporation
Commercial Service Date: November 17, 1987

Prepared by: 


Date: 12-15-03

Reviewed by: 
Supervisor, Nuclear Engineering

Date: 12-16-03

Reviewed by: 
ANII

Date: 12-19-03

Approved by: 
Manager, Plant Engineering

Date: 12-22-03

**90-DAY REPORT
TABLE OF CONTENTS**

<u>Item</u>	<u>Page Number</u>
Cover Page	1
Table of Contents	2
Form NIS-1	3 - 4
Outage Summary	5
ASME XI Vessel, Piping and Support Examinations	
1. Class 1	5
2. Class 2	5
3. Class 3	5
IWE Containment Examination	5
Pressure Testing	6
Deficiency Resolution	6
Steam Generator Tube Examination	6
NIS-2 Forms	6
Appendix I - Completed Code Examinations	
Appendix II - Repair/Replacement Abstract and NIS-2 Forms	

1. Owner	<u>FirstEnergy Nuclear Operating Company, Route 168, Shippingport, PA 15077</u> (Name and Address of Owner)		
2. Plant	<u>Beaver Valley Power Station, Route 168, Shippingport, PA 15077</u> (Name and Address of Plant)		
3. Plant Unit	<u>2</u>	4. Owner Certificate of Authorization (if required)	<u>26-05000</u>
5. Commercial Service Date	<u>11/17/87</u>	6. National Board Number for Unit	<u>N/A</u>

[illegible]

This form (E0029) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07008-2300

FORM NIS-1 (Back)

8. Examination Dates 2/27/2002 to 10/10/2003
9. Inspection Period Identification: 12/29/2001 to 4/29/2005
10. Inspection Interval Identification: 11/17/1997 to 08/28/2008
11. Applicable Edition of Section XI 1989 Addenda None
12. Date/Revision of Inspection Plan: 1/2-ADM-2039, Revision 0
13. Abstract of Examination and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan. See 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.
14. Abstract of Results of Examination and Tests. See text of summary report.
15. 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.

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) 26-05000 Expiration Date N/A
 Date 12/15/03 Signed FirstEnergy Nuclear Operating Co. By [Signature]
 (Owner)

CERTIFICATE OF INSERVICE INSPECTION

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

[Signature] Commissions NB 9428 ANIB, PA 2384
 Inspector's Signature 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)

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

a. Pipe Welds

Ultrasonic Exams	-	9
Visual Exams	-	2

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	VT-2, , ,	110456
204700	2RCS*P21C-FLYWHEEL		RG1.14	FLYWHEEL	UT , , ,	E-1C
264000	2SIS-288-1B	B-J	B09.011	PIPE WELD	UT , , ,	108207
291200	2SIS-270-F06	B-J	B09.011	PIPE WELD	UT , , ,	110801
292000	2SIS-015-1A	B-J	B09.011	PIPE WELD	UT , , ,	110801
295100	2SIS-024-1A	B-J	B09.011	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	BUTT WELD	UT , , ,	108301
317450	2CHS-433-F02	R-A	RI-ISI	SOCKET WELD	VT-2, , ,	108302
319600	2CHS-072-F02	C-F-1	C05.021	BUTT WELD	UT , , ,	108302
319800	2CHS-072-F03	C-F-1	C05.021	BUTT WELD	UT , , ,	108302
322400	2CHS-072-F06	C-F-1	C05.021	BUTT WELD	UT , , ,	108303
322600	2CHS-072-F07	C-F-1	C05.021	BUTT WELD	UT , , ,	108303
324650	2CHS-291-F403	R-A	RI-ISI	SOCKET WELD	VT-2, , ,	108304
325800	2CHS-320-F404	C-F-1	C05.030	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	C05.030	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	C05.011	BUTT WELD	UT , , ,	108342
374500	2CHS-015-F03	C-F-1	C05.011	BUTT WELD	UT , , ,	108342
376100	2CHS-015-F06	C-F-1	C05.011	BUTT WELD	UT , , ,	108342
376300	2CHS-015-F07	C-F-1	C05.011	BUTT WELD	UT , , ,	108342
377600	2CHS-068-2-A	C-F-1	C05.011	BUTT WELD	UT , , ,	108343
389400	2CHS-278-F400	C-F-1	C05.030	SOCKET WELD	VT-2, , ,	108396
389600	2CHS-278-F401	C-F-1	C05.030	SOCKET WELD	VT-2, , ,	108396
393500	2CHS-275-F400	C-F-1	C05.030	SOCKET WELD	VT-2, , ,	108397
393700	2CHS-275-F401	C-F-1	C05.030	SOCKET WELD	VT-2, , ,	108397
395400	2CHS-358-1B	C-F-1	C05.021	BUTT WELD	UT , , ,	108398
397100	2CHS-071-F512	C-F-1	C05.021	BUTT WELD	UT , , ,	108398
397700	2CHS-272-F400	C-F-1	C05.030	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	C-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	C05.051	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	C05.052	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	C05.011	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	C05.021	BUTT WELD	UT , , ,	110798
999980	2CNMT-LINER	E-A	E01.011	CONTAINMENT LINER	GV , , ,	
999983	2CNMT-MOISTBARR	E-D	E05.030	MOISTURE BARRIER	VT-3, , ,	
999985	2CNMT-BLDFLG	E-G	E08.010	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

<u>FORM NO.</u>	<u>MARK NUMBER</u>	<u>WORK ORDER NO.</u>	<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	"	"
"	2-SWS-150-966-3	"	"
"	2-SWS-002-758-3	"	"
"	2-SWS-150-967-3	"	"
"	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	"	"
"	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	"	"

NIS-2 ABSTRACT

<u>FORM NO.</u>	<u>MARK NUMBER</u>	<u>WORK ORDER NO.</u>	<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	"	"
"	2SWS-339	"	"
"	2SWS-1212	"	"
"	2SWS-1213	"	"
"	2SWS-1214	"	"
"	2SWS-1215	"	"
1659	2RCS-RV551B	200025234	Replacement
"	"	200055363	"
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

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

1. Owner F.E.N.O.C. Date 07/23/03
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 2
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 W.O. #98-076238-000
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date
4. Identification of System Service Water (Class 3)
5. (a) Applicable Construction Code Section III 19 77 Edition, S77 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)
Strainer	Zurn Industries	9809	40	2SWS-STRM47	1982	Replaced	Yes
Strainer	BNL Industries	A99090-1-(1)	N/A	2SWS-STRM47	2000	Replacement	Yes

7. Description of Work Replaced strainer with spare.

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

FORM NIS-2 (Back)

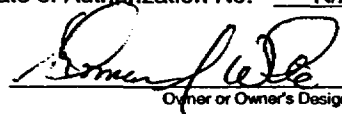
9. Remarks Code Data Report attached.

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 N/ACertificate of Authorization No. N/AExpiration Date N/A

Signed


Owner or Owner's Designee, Title Senior Eng

Date

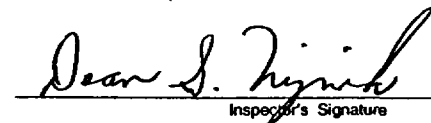
August 4, 20 03

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 2-27-02 to 8-14-03, 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.


Inspector's SignatureCommissions NB 9428 ANIB PA 2384
National Board, State, Province, and EndorsementsDate 8-14-, 20 03

Pg. 1 of 2

[illegible]

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

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

Certificate Holder's Serial No. A990901-1-(1)

8. Design conditions _____ psi _____ °F or valve pressure class 150# (1)
(pressure) (temperature)

9. Cold working pressure 153 psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure _____ psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J. R. HASLAM P.E. State PA Reg. no. 35972-E
Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. * N-2882

N Certificate of Authorization No. _____ Expires 11/10/01

Date 05/11/00 Name BNL INDUSTRIES, INC. Signed [Signature]
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by COMMERCIAL UNION INS.
of BOSTON, MA have inspected the pump, or valve, described in this Data Report on 05/11/00, 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 5-11-2000 Signed [Signature] Commissions NB 8504 AN G 1414
(Authorized Inspector) (Nat'l. Bd. [incl. endorsements] and state or prov. and no.)

(1) For manually operated valves only.

Form No. 1456

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 10/08/2003
(NAME)
76 South Main Street – Akron, OH 44308 Sheet 1 of 2
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #200022095
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 74 Edition, S74 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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

7. Description of Work Replaced valve with spare.

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

FORM NIS-2 (Back)

9. Remarks Code Data Reports attached.

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/ACertificate of Authorization No. N/AExpiration Date N/A

Signed



Owner or Owner's Designee, Title

Senior Eng.

Date

November 18, 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 9-30-03 to 12-2-03, 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.


Inspector's Signature

Commissions

I, N, PA 2384
National Board, State, Province, and EndorsementsDate 12-2-, 20 03

Pg. 1 of 2

[illegible]

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

FORM NPV-1 (Back) — Pg. 2 of 2

Certificate Holder's Serial No. 02226

- 8 Design conditions 200 Psi 300 °F or valve pressure class ANSI 150 (1)
 (pressure) (temperature)
9. Cold working pressure 285 Psi at 100°F
10. Hydrostatic test 450 Psi. Disk differential test pressure 315 Psi
11. Remarks: PO No. 7116368, Rev. 0, Item No. 1 SO No. 21416-01 Valve ID: VCI-015-C-3
Supplier: Dubose, PO #28229 Items 1 and 2, Hinge/Stop Pin Retainers, Ht. #56457
Supplier: PRL, PO #28226, Body Ht. #0349, RT S/N T43, Plates Ht #0349, RT S/N T44, Ht. #0349, RT S/N T45

CERTIFICATION OF DESIGN

Design Specifications certified by Walter Joseph Parker, Jr. P.E. State PA Reg. No. 24003-E
 Design Report certified by N/A P.E. State N/A Reg. No. N/A

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2899 Expires September 24, 2005
 Date 06/26/03 Name CRANE Nuclear, Inc. Signed Garrett Petrovich
 (N Certificate Holder) (authorized representative)
 Garrett Petrovich

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 Illinois and employed by HSBCT of Hartford, CT Have inspected the pump, or valve, described in this Data Report on 06/26/03 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 loss of any kind arising from or connected with this inspection.

Date 06/26/03 Signed Fred C. Ouyang Commissions IL 1005
 (Authorized Nuclear Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. And no.)
 Fred C. Ouyang

(1) For manually operated valves only.

Form No. 1465

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 10/08/2003
(NAME)
76 South Main Street – Akron, OH 44308 Sheet 1 of 2
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #200020494
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "
4. Identification of System Quench Spray (Class 2)
5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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

7. Description of Work
- Replaced Relief Valve with spare for testing purposes.

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

FORM NIS-2 (Back)

9. Remarks Code Data Reports attached.

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/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Savir Eys Date November 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 11-6-01 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 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. Zyzanski Commissions I, N, PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-3-, 20 03

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

1. Manufactured and certified by Dresser Industries Inc., Dresser Valve & Controls Div.
(Name and address of NV Certificate Holder)
Ind. Valve Operations: Int. Hwy. 157 & 3225 North. Alex. IA
(Name and address of Purchaser)
71309-1430

2. Manufactured for Duquesne Light Company P. O. Box 347 Shippingport, PA 15077-0347
(Name and address of Purchaser)

3. Location of installation Duquesne Light Company Beaver Valley Power Station Shippingport, Pa.
(Name and address)
15077

4. Valve 1970-2-XFL13 Orifice size .815 Nom. Inlet size 1-1/2" Outlet size 2"
(Model No., series No.) (In.) (In.) (In.) (In.)

5. ASME Code, Section III, Division 1: 1974 Summer 1974 2 N/A
(Edition) (Issuance Date) (Class) (Code Case no.)

6. Type Safety Relief 150 Fixed Saturated *See Below at Ambient of
(Lifting, pilot or power operated) (Test pressure, psig) (Blowdown, psi) (Rated temp.) (Hydro. test, psig, steel)

7. Identification TL-40543 N/A 3NC3038 N/A 1998
(Cert. Holder's serial no.) (ICRH) (Drawing no.) (Net'l. Id. no.) (Year built)

8. Control ring settings N/A

9. Pressure retaining items:

	Serial No. or Identification	Mat'l. Spec., Including Type or Grade	Tensile Strength
Body	ACX02	SA479 Type 316	84,939 PSI
Bonnet or Yoke	ACW98	SA216 Gr. WCC	75.3 KSI
Support Rods			
Nozzle			
Disk	ACX59	SA479 Type 316	83,730 PSI
Spring Washers			
Adjusting Screws			
Spindle			
Spring			
Boiting			
Other Items			
Base Extention	ABR42	SA479 Type 316	85,100 PSI
Bonnet Extension	ACX47	SA105	73,100 PSI

10. Relieving capacity 3763 #/hr. steam 15 overpressure as certified by the National Board N/A
(Steam or fluid, lb/hr) (psi) (Model)

11. Remarks: * Base Assembly - 425 PSIG
Bonnet Assembly - 450 PSIG
Disc - 4500 PSIG

CERTIFICATION OF DESIGN			
Design Specification certified by	<u>John F. Harkins</u>	P.E. State	<u>PA</u>
Design Report certified by	<u>D. K. Sharma</u>	P.E. State	<u>LA</u>
		Reg. no.	<u>30388E</u>
		Reg. no.	<u>20244</u>
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.			
NV Certificate of Authorization No.	<u>NI747</u>	Expires	<u>5/20/98</u>
Date	<u>4/27/98</u>	Name	<u>See 1 Above</u>
	<small>(NV Certificate Holder)</small>	Signed	<small>(Authorized representative)</small>

* Supplemental information in form of data, 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 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 Boiler and Pressure Vessel Inspectors and the State or Province of Louisiana and employed by H.S.B.I. & I.

4/22/98 of Hartford, CT have inspected the valve described in this Data Report on 4/22/98, 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 4/22/98 Signed [Signature] Commissions N67719 "A" D' WE2605 L4667
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and aa.)

Form No. 1466

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 12/01/2003
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 3
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #00-024497-002
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "
4. Identification of System Fuel Pool Cooling (Class 3)
5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 Addenda, 1672 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Walworth	A1091	1082	2FNC-109	1978	Corrected	Yes
Disc	Crane Nuclear	D0583	N/A	Ht #026	2002	Installed	Yes
Cover	Crane Nuclear	D0582	N/A	Ht #026	2002	Installed	Yes

7. Description of Work Replaced valve disc and cover.

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

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

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/ACertificate of Authorization No. N/AExpiration Date N/A

Signed



Owner or Owner's Designee, Title

Senior Eng.

Date

December 9, 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 11-6-01 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.



Inspector's Signature

Commissions

I, N, PA 2384

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

1. Manufactured and certified by CRANE Nuclear, Inc., 860 Remington Boulevard, Bolingbrook, IL 60440
(name and address of NPT Certificate Holder)
2. Manufactured for First Energy Corporation, PO Box 345, Shippingport, PA 15077
(name and address of purchaser)
3. Location of installation Beaver Valley Power Station, Route 168, PO Box 4, Shippingport, PA 15077
(name and address)
4. Type C-47565, Rev. 1 SA351 Gr. CF8 70 KSI (Min.) N/A 2002
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 Winter 1972 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: PO No. 7078707 SO No. 14010-03 6" Disc, P/N 15966
For a 6" Model N376-SP, 150#, Swing Check Valve, Assembly Drawing No. D-50933 ** No Hydro performed
Material supplier: PRL Industries, Inc. (Cornwall, PA), Ht. No. 026, PRL S/N's: P829
8. Nom. thickness (in.) 3/4" Min. design thickness (in.) .60" Dia. ID (ft. & in.) 5 1/2" Length overall (ft. & in.) 4"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>D0583</u>	<u>N/A</u>
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

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

10. Design pressure 275 psi. Temp. 100 °F. Hydro. test pressure ** at temp. °F.
(when applicable)

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

This form (E00040) may be obtained from the Order Dept. ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM N-2 (Back) — Pg. 2 of 2

Certificate Holder's Serial Nos. D0583 Through N/A

CERTIFICATION OF DESIGN

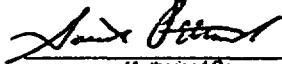
Design specifications certified by Frank A. Gopalani P.E. State PA Reg. No. 21966-E
(when applicable)

Design report * certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc - P/N 15966
conforms to the rules of construction of the ASME Code, Section III, Division 1.

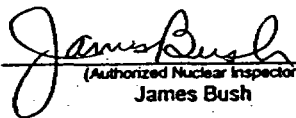
NPT Certificate of Authorization No. N-2900 Expires September 24, 2002

Date 02/22/02 Name CRANE Nuclear, Inc. Signed 
(NPT Certificate Holder) (Authorized Representative)
Garrett Petrovich
Sr. Quality Assurance Engineer

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 Illinois and employed by Factory Mutual Insurance Company of Johnston, RI have inspected these items described in this Data Report on 02/22/02 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 the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 02/22/02 Signed  Commissions Illinois 1077
(Authorized Nuclear Inspector) (Nat'l Bd. (incl. Endorsements) and state or prov. and no.)
James Bush

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

1. Manufactured and certified by CRANE Nuclear, Inc., 860 Remington Boulevard, Bolingbrook, IL 60440
(name and address of NPT Certificate Holder)
2. Manufactured for First Energy Corporation, PO Box 345, Shippingport, PA 15077
(name and address of purchaser)
3. Location of installation Beaver Valley Power Station, Route 168, PO Box 4, Shippingport, PA 15077
(name and address)
4. Type C-47565, Rev. 1 SA351 Gr. CF8 70 KSI (Min.) N/A 2002
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 Winter 1972 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: PO No. 7078707 SO No. 14010-02 6" Cover, P/N 47565
For a 6" Model N376-SP, 150#, Swing Check Valve, Assembly Drawing No. D-50933 ** No Hydro performed
Material supplier: PRL Industries, Inc. (Cornwall, PA 17016), Ht. No. 026, PRL S/N: P830
8. Nom. thickness (in.) 13/16 Min. design thickness (in.) .280 Dia. ID (ft. & in.) 8.777" Length overall (ft. & in.) 11.250"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>D0582</u>	<u>N/A</u>
(2) _____	_____
(3) _____	_____
(4) _____	_____
(5) _____	_____
(6) _____	_____
(7) _____	_____
(8) _____	_____
(9) _____	_____
(10) _____	_____
(11) _____	_____
(12) _____	_____
(13) _____	_____
(14) _____	_____
(15) _____	_____
(16) _____	_____
(17) _____	_____
(18) _____	_____
(19) _____	_____
(20) _____	_____
(21) _____	_____
(22) _____	_____
(23) _____	_____
(24) _____	_____
(25) _____	_____

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

10. Design pressure 275 psi. Temp. 100 °F. Hydro. test pressure ** at temp. °F.
(when applicable)

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

This form (E00040) may be obtained from the Order Dept. ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

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 P.E. State PA Reg. No. 21966-E
(when applicable)

Design report * certified by N/A P.E. State N/A Reg. No. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

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


NPT Certificate of Authorization No. N-2900 Expires September 24, 2002

Date 02/27/02 Name CRANE Nuclear, Inc. Signed 
(NPT Certificate Holder) (Authorized Representative)
 Garrett Petrovich
 Sr. Quality Assurance Engineer

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 Illinois and employed by Factory Mutual Insurance Company of Johnston, RI have inspected these items described in this Data Report on February 27, 2002, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 02/27/02 Signed  Commissions Illinois 1077
(Authorized Nuclear Inspector) (Natl. Bd. (incl. Endorsements) and state or prov. and no.)
 James Bush

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 Date 10/08/2003
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 2
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #200020357
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date
4. Identification of System Chemical and Volume Control (Class 2)
5. (a) Applicable Construction Code Section III 19 71 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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 Replaced Nozzle, Disc

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

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

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/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Senior Eng. Date October 23, 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 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.

[Signature] Commissions I, N. PA 2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-27-, 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, Division 1 - Not to Exceed One Day's Production

1. Manufactured and certified by Anderson Greenwood Crosby, 43 Kendrick St., Wrentham, MA 02093
(Name and Address of N Certificate Holder)
2. Manufactured for FIRST ENERGY CORP.
(Name and Address of Purchaser or Owner)
3. Location of Installation BEAVER VALLEY POWER STATION
(Name and Address)
4. Type DS-C-56900 REV.B SA479 TYPE 316 75,000 -- 2002
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 WINTER 1972 2 --
(edition) (addenda date) (class) (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) -- Revision -- Date --
(no.)
7. Remarks _____
8. Nom. thickness (in.) -- Min. design thickness (in.) -- Dia. ID (ft & in.) -- Length overall (ft & in.) --
9. When applicable, Certificate Holders' data reports are attached for each item of this report.

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) N90448-92-0343	---	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(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)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure -- psi. Temp. -- ° F Hydro. test pressure 425 at temp. 70 ° F
(when applicable)

* Additional 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.

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Certificate Holder's Serial No. N90448-92-0343**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) Disc Insert
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 CrosbyDate 18-APR-02 Signed Wrentham, MA by D.E. TUNNEY
(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 the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 4-18, 20 02

Signed

Don O. Whitman
(Authorized Inspector)

Commissions

MA-1418
(Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

Form No. 1511

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 11/25/2003
(NAME)
76 South Main Street – Akron, OH 44308 Sheet 1 of 3
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 W.O. #200018465, 200014981
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "

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

5. (a) Applicable Construction Code Section III 19 71 Edition, S72 Addenda, --- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N-416-1

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes, or No)
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

7. Description of Work Replaced pump discharge head and nuts, inboard & outboard seal housings,
inlet & outlet pipe flange studs/nuts and sections of lube oil piping.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
 Other ☐ Pressure 150 psi Test Temp. Amb °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 993. Replaced sections of
lube oil piping designed to ANSI B31.1 1967E-S'72A. All bolting was supplied by Nova Machine 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 N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Senior Eng. Date December 10, 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 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.

[Signature] Commissions I, N 042384
 Inspector's Signature National Board, State, Province, and Endorsements

Date 12-12-, 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

Manufactured and certified by Flowserve Corp., 2300 E. Vernon Ave., Vernon, CA 90058
(name and address of NPT Certificate Holder)

2. Manufactured for First Energy Corp., PO Box 3611, Akron, Ohio 44309
(name and address of Purchaser)

3. Location of installation First Energy Corp., Long Term Storage Facility, Shippingport, PA 15077
(name and address)

4. Type: D73894 Rev. 03 ASME SA 182 F304 75 KSI Min. NA 2003
(drawing no.) (mat'l. spec. no.) (tenable strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1971 Summer 72 2 NA
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) NA Revision NA Date NA
(no.)

7. Remarks: Nomenclature: Assembly, Discharge Head, Consisting of:
Head-SA 182 F304, Bypass Pipe-SA 312 304L, Bypass Flange-SA 182 F304

8. Nom. thickness (in.) 4.625" Min. design thickness (in.) 4.500" Dia. ID (ft & in.) 1', 10" Length overall (ft & in.) 0', 9.375"

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>RLSA04165</u>	<u>NA</u>	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(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)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

Design pressure 2800 psi. Temp. 300 °F. Hydro. test pressure Disch. 5260, Suct. 400@ 70 at temp. °F
(when applicable)

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

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Reprint (7/91)

Certificate Holder's Serial Nos. RLSA04165 through NA

CERTIFICATION OF DESIGN

Design specifications certified by Albert John Wettlaufer P.E. State PA Reg. no. 13335-E
(when applicable)

Design report* certified by John R. Lighle P.E. State NA Reg. no. NA
(when applicable)

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-1131 Expires June 10, 2005

Date 1/16/03 Name Flowserve Corp., Pump Division Signed J. L. Constantino
(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 California and employed by HSB-CT
 of Hartford, CT have inspected these items described in this Data Report on 1-16-03, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 1/16/03 Signed Victor F. Reyes Commissions NB 9435N CA1526
(Authorized Inspector) [Nat'l. Bd. (incl. endorsements) and state 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

1. Manufactured and certified by REACTIVE OYD., ROTATING EQUIPMENT DIVISION, 2300 EAST VERNON AVE., VERNON, CA 90058
(Name and address of NPT Certificate Holder)

2. Manufactured for FIRST ENERGY, BEAVER VALLEY, SHIPPINGPORT, PA 15077
(Name and address of Purchaser)

3. Location of installation FIRST ENERGY, BEAVER VALLEY, SHIPPINGPORT, PA 15077
(Name and address)

4. Type: D17368-00-00-OSP-SP ASME SA-182 GR. F-304 75,000 N/A 2002
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRNI) (year built)

5. ASME Code, Section III, Division 1: 1971 SUMMER 1972 2 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)

RESERVE JOB NO.: RLCA00919 NOMENCLATURE: SEAL HOUSING MAT'L. TYPE: ASME SA-182 GR. F-304

8. Nom. thickness (in.) 1.062 Min. design thickness (in.) 1.000 Dia. ID (ft & in.) 0' 3.0" Length overall (ft & in.) 0' 2.984"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>RLSA03094</u>		(26)	
(2) <u>RLSA03095</u>		(27)	
(3) <u>RLSA03091</u>		(28)	
(4) <u>RLSA03093</u>		(29)	
(5)		(30)	
(6)		(31)	
(7)		(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)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 220 psi. Temp. 300 °F. Hydro. test pressure 375 at temp. °F
(when applicable)

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

(12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Reprint (7/91)

Certificate Holder's Serial Nos. _____ through _____

CERTIFICATION OF DESIGN

Design specifications certified by Albert John Wettlaufer P.E. State PA Reg. no. 13335-E
(when applicable)

Design report * certified by W. O. Shepherd P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 2002

Date 4/26/02 Name FLORSERVE CORPORATION, ROTATING EQUIPMENT DIVISION Signed Scott A. Gray
(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 CALIFORNIA
 and employed by HSB CT

of HARTFORD, CT. have inspected these items described in this Data Report on 4/26/02, 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 the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 4/26/02 Signed [Signature] Commissions NB 12050-N CA-1969
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

Form No. 1532**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 10/13/2003
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #200024619
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "

4. Identification of System Reactor Coolant (Class 1)
5. (a) Applicable Construction Code Section III 19 71 Edition, W72 Addenda, --- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Safety Valve	Crosby	N56963-01-0011	N/A	2RCS-RV551C	1985	Removed	Yes
Safety Valve	Crosby	N56963-00-007	N/A	2RCS-RV551C	1976	Installed	Yes

7. Description of Work Replaced valve with spare.

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

FORM NIS-2 (Back)

9. Remarks 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/ACertificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Senior Eng. Date December 10, 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 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.

[Signature] Commissions I.D. PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-10-, 20 03

Form No. 1552

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
(NAME)
76 South Main Street – Akron, OH 44308
(ADDRESS)

Date 11/20/2003Sheet 1 of 1

2. Plant Beaver Valley Power Station
(NAME)
Shippingport, PA 15077
(ADDRESS)

Unit No. 2

W.O. 02-014152-000
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Construction Serv.
(NAME)
Shippingport, PA 15077
(ADDRESS)

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date "4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 Addenda, -- Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989(c) Applicable Section XI Code Case(s): N-416-1

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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

7. Description of Work Cut-out and replaced section of pipe.

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

FORM NIS-2 (Back)

9. Remarks No Code Data Report. Section of pipe on Isometric drawing 2806.264-920-047G between
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 [Signature] Senior Eng. Date November 20, 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 Harford CT. have inspected the components described in the Owner's Report during the period 6-12-02 to 11-26-03, 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.

[Signature] Commissions I, N, PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 11-26-, 20 03

Form No. 1561

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

1. Owner F.E.N.O.C. Date 04/21/03
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 4
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 P.O. #7106761 / W.O. 02-019408-000
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By AMS Mechanical System, Inc. Type Code Symbol Stamp "R"
(NAME)
140 E. Tower Drive, Burr Ridge IL 60521 Authorization No. R-5525
(ADDRESS) Expiration Date March 15, 2003
4. Identification of System Service Water (Class 3)
5. (a) Applicable Construction Code Section III 19 74 Edition, — Addenda, N-68, 1634-1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (YES or NO)
Condenser	Carrier Corp.	9915689	139117	2HVC-CND24A	1978	Replacement	Yes
Tube-sheets	Energy & Process Corp	N/A	N/A	Ht #2103014	2002	Replacement	No
Tubes	Energy & Process Corp	N/A	N/A	Lot #1	2002	Replacement	No

7. Description of Work Replaced the heat exchanger tube sheets and tubes.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐
 Other ☐ Pressure 225 psi Test Temp. Amb. °F

FORM NIS-2 (Back)

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.

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 ½-ADM-0801 "ASME Section XI Repair/Replacement and Repair/Alteration Program"

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Senior Engineer Date 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. of
Johnston, R.I. have inspected the components described in the
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.

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

Robert Cimoch
Inspector's Signature

Commissions

NB 7509 (N.I.) PA 2162
National Board, State, Province, and Endorsements

Date April 23, 20 03

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

PAGE 25
S.M.C.

1. Work performed by AMS Mechanical Systems, Inc. 121
(name of repair organization) (Form 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
(address)
3. Location of installation Beaver Valley Power Station
(name)
Route 168, Shippingport, PA 15077
(address)
4. Unit identification Condenser Name of original manufacturer Carrier Corporation
(boiler, pressure vessel)
5. Identifying nos.: 9915689 139116 - - 1978
(infg serial no.) (National Board No.) (jurisdiction no.) (other) (year built)
6. NBIC Edition / Addenda: 2001 2002
(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
(name/section/division) (edition/addenda)
7. Repair Type: ☒ Welded ☐ Graphite Pressure Equipment ☐ FRP Pressure Equipment
8. Description of Work: Removed the installed (2) new tubesheets (SA-516 Grade 70) and (110)
(use supplemental sheet, Form R-4, if necessary)
condenser tubes (SB-359). Installed/welded (16) inserts (SA-516 Grade 70) within tube sheets.
Pressure Test, if applied Pneumatic 482 psi. MAWP 385 psi.
9. Replacement Parts. Attached are Manufacturer's Partial Data Reports 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 case 1518-5 applies for pneumatic testing.

Preferred Metal Technologies
Project: Beaver Valley
P.O. #: 7107643

CERTIFICATE OF COMPLIANCE

I, Joe Emerson, certify that to the best of my knowledge and belief the statement in this report are correct and that all material, construction, and workmanship on this Repair conform to the National Board Inspection Code. National Board "R" Certificate of Authorization No. R-5525 expires on March 15, 2003
Date January 21, 2003 AMS Mechanical Systems, Inc. Signed [Signature]
(name of repair organization) (authorized representative)

CERTIFICATE OF INSPECTION

I, Gergg Bankey, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Illinois and employed by HSB CT of Hartford, Connecticut have inspected the work described in this report on January 21, 2003 and state that to the best of my knowledge and belief this work complies with the applicable requirements of the National Board Inspection Code.
By signing this certificate, neither the undersigned nor my employer make any warranty expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for Any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date January 21, 2003 Signed Gergg Bankey Commissions NB12343A, IL 2007
(inspector) (National Board (incl. Endorsements), and jurisdiction, and no.)

FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS¹

As required by the Provision of the ASME Code Rules

1. Manufactured by Carrier Corporation, Syracuse, New York 13201 Job 4130D6037
(Name and address of Manufacturer)

2. Manufactured for Beaver Valley Power Sta. Unit #2 Duquesne Light Co., Shippingport, PA
(Name and address of Purchaser)

3. Type O9RA070 Kind Condenser Vessel No. 9915689 Nat'l Bd. No. 139117 Re. Buil. 1978
(Holds. or Vess. (Tank, Jacketed, Heat Ex.) (Mfr. Serial No.) (Date & State No.) 1634-1

3a. Applicable ASME Code, Section III, Edition 1978, Addenda, date Case No. N-68
Class 3

Items 1-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material N/A T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec. No.) (Min. of range specified)

5. Seams: Long N/A H.T. R.T. Efficiency %
Girth N/A H.T. R.T. No. of Courses

6. Heads: (a) Material N/A T.S. (b) Material T.S.
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Convex or Concave)
(a)
(b)

If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or attach sketch)

7. Jacket Closure N/A
(Describe as open & weld, bar, etc. If bar give dimensions, describe or sketch)
Drop Weight Pneumatic
Charpy Impact ft-lb Hydrostatic Test Pressure psi

8. Design Pressure N/A psi at °F at temp. of °F. Combination

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material SA285¹C¹ Dia. 12.25 in. Thickness 1.32 in. Attachment Welded
(Kind & Spec. No.) (Subject to press.) (Welded, Bolted)

Floating. Material Dia. in. Thickness in. Attachment
(Kind & Spec. No.)

10. Tubes: Material Copper O.D. 7/8 in. Thickness .035 inches Number 105 Type Straight
(Kind & Spec. No.) (Straight or U)

Items 11 to 14 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

11. Shell: Material N/A T.S. Nominal Thickness in. Corrosion Allowance in. Dia. ft. in. Length ft. in.
(Kind & Spec. No.) (Min. of range specified)

12. Seams: Long N/A H.T. R.T. Efficiency %
(Welded, Bolt., Single) (Yes or No)

Girth H.T. R.T. No. of Courses

13. Heads: (a) Material SB61 T.S. 43,000 (b) Material T.S. (c) Material T.S.
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Convex or Concave)
(a) Top, bottom, ends 50" 11.008, C, Flat
(b) Channel
(c) Floating

If removable, bolts used (a) (16) .75" SA449 120,000 T/S (b) (c)
(Material, Spec. No., T.S., Size, Number) Drop weight (Describe or attach sketch)
Charpy Impact ft-lb Hydrostatic Test Pressure 225 psi

14. Design pressure 150 psi at 250 °F at temp. of °F. Combination

¹If Postweld Heat-Treated. ²List other internal or external pressures with maximum temperature when applicable.

*Supplemental sheets in form of flats, sketches or drawings may be used provided (1) size is 8" x 11", (2) information on items 1-3 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in step 14, "Remarks."

FORM N-1 (Rev. 1-61)

Items below to be completed for all vessels where applicable.

15. Safety Valve, Check Valve: Number N/A Size _____ Location _____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Size or Dia.	Type	Material	Thickness	Reinforced Material	How Attached
Inlet	1	3"	Pipe	SA53	.30"	Inherent	Welded/Bolted
Outlet	1	3"	Pipe	SA53	.30"	Inherent	Welded/Bolted
Drains/Misc.	2/2	3/8" FPT	Cstg.	SB61	.50"	Inherent	Threaded

17. Inspection Manholes, No. _____ Size _____ Location _____

Openings: Handholes, No. _____ Size _____ Location _____

Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt No Lugs 0 Legs 2 Other - Attached Welded to shell

(Yes or No) (Number) (Number) (Describe) (Where & How)

19. Remarks: ASME code Section III tube side only. Length 106" O.A. x 12.75" D.

Shell side ASME code Section VIII per N.B. 139116

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at Carrier Corporation, Syracuse, New YorkStress analysis report on file at N/ADesign specifications certified by William J. Art, Jr.Prof. Eng. State PA. Reg. No. 15699-EStress analysis report certified by Anton K. BoghossianProf. Eng. State PA. Reg. No. 19251-E

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

Date July 14 19 78 Signed Carrier Corporation By Arthur D. Conklin

(Manufacturer)

Certificate of authorization Expires August 6, 1979 Certificate of Authorization No. 1508

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Carrier Corporation at Syracuse, New York

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of New York and employed by The Hartford Steam Boiler Insp. & Ins. Co. Hartford, Conn.

Have inspected the pressure vessel described in this Manufacturer's Data Report on 7/12/78 19 78, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's 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 JUL 18 1978 19 78 NE8131 PA BD WC 2561

Inspector's Signature Jack L. Shampine Commissions OHIO COMMISSION

National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psi.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's 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 _____ 19 _____

Inspector's Signature _____ Commissions _____

National Board, State, Province and No.

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

- Manufactured by **CARRIER CORPORATION, SYRACUSE, NEW YORK 13221** Job No. **4130D6037**
(Name and address of manufacturer)
 - Manufactured for **Beaver Valley Power Station Unit No. 2, Duquesne Light Co., Pittsburgh, PA**
(Name and address of purchaser)
 - Location of installation **Beaver Valley Power Sta. Unit No. 2, Shippingport, PA**
(Name and address)
 - Type **098A Condenser** Vessel No. **9915689** SO **55255** **139116** Year Built **1978**
(Ident. or spec. tank) (Mfg's Serial No.) (CRN) (Drawing) (Netl Bld No.) (Year)
 - The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 **1974** and Addenda to **1974** and Code Case no. **1518-1** Special service per UG-120(d) **No Special Service**
(Date)
- Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: **None**
(Name of part, item number, mfg's name and identifying stamp)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

- Shell: Material **SA53"B"** Nominal Thickness **.375** in. Corrosion Allowance **0** in. Diam. **1** ft **.75** in. Length **6** ft **11.37** in.
(Spec. No., Grade)
- Seams: Longitudinal **Seamless** R.T. **100** % H.T. Temp **0** F
(Welded, Dbl. Engr., Lap, Butt) (Spot or Full)
- Time **0** Girth **0** R.T. **0** No. of Courses **1**
(Welded Dbl., Engr., Lap, Butt) (Spot, Partial or Full)
- Heads: (a) Material **N/A** (b) Material **N/A**
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)						
(b)						
	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)		
(a)						
(b)						

If removable, bolts used (describe other fastenings)

(Material, Spec. No., Gr., Size, No.)

- Type of Jacket **N/A** Proof Test
- Jacket Closure **N/A** If bar, give dimensions If bolted, describe or sketch.
(Describe as oval & weld, bar, etc.)
- Constructed for max. allowable working pressure **385** psi at max. temp. **300** F Min. temp. (when less than -20 F) **0** F
Hydrostatic pneumatic, or combination test pressure **482** psi

Items 12 and 13 to be completed for tube sections

- Tubesheets Stationary—Material **SA285"C"** Diam **12.25** in. Nominal Thickness **1.32** in. Corrosion Allowance **.039** in. Attachment **Welded** Floating—Material **0** in.
(Spec. No., Gr.) (Subject to pressure) (Spec. No., Grade)
Nominal Thickness **0** in. Corrosion Allowance **0** in. Attachment **0** in.
- Tubes: Material **SB359 Copper** O.D. **.748** in. Nominal Thickness **.035** in. or gauge Number **105** Type **Straight**
(Spec. No., Gr.) (Straight or U)

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

- Shell: Material **N/A** Nominal Thickness **0** in. Corrosion Allowance **0** in. Diam. **0** ft **0** in. Length **0** ft **0** in.
(Spec. No., Gr.)
- Seams: Longitudinal **N/A** R.T. **0** % H.T. Temp **0** F Time **0** min
(Welded, Dbl., Sngl. Lap, Butt) (Spot or Full)
- Girth **0** R.T. **0** No. of courses **0**
(Welded, Dbl., Sngl., Lap, Butt) (Spot, Partial, or Full)
- Heads: (a) Material **N/A** (b) Material **N/A**
(Spec. No., Grade) (Spec. No., Gr.)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)						
(b)						
	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)		
(a)						
(b)						

If removable, bolts used (describe other fastenings)

(Material, Spec. No., Gr., Size, No.)

FORM U-1 (BACK)

NB 139116

17. Constructed for max. allowable working pressure N/A psi at max temp. F. Min. temp. (when less than -20 F) F.
Hydrostatic, pneumatic, or combination test pressure psi.

Items below to be completed for all vessels where applicable

18. Safety Valve Outlet: Number 1 Size 30 Location Shell
19. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
Inlet	1	3.12 OD	Pipe	SB43	.28"	Inherent	Braced
Outlet	1	1.25	Pipe	SA53	.19"	Inherent	Welded
Drain	1	.75 FPT	Cplg.	SA105	.42"	Inherent	Welded

20. Inspection Openings:

Manholes No. Size Location
Handholes No. Size Location
Threaded No. Size Location

21. Supports: Skirt No Lugs 0 Logs Other Attached Welded to shell
(Yes or no) (No.) (No.) (Describe) (Where and how)

22. Remarks: ASME code Section VIII Shell side only Length 85" x 12.75 dia.
Refrigerant 22 Tube side ASME code Section III per NB 139117
* Para. UG25(d)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date 7/14/78 Signed CARRIER CORPORATION by *Richard D. Cruller*
(Manufacturer) (Representative)
"U" Certificate of Authorization No. 701 expires February 28 19 80

CERTIFICATE OF SHOP INSPECTION

Vessel made by CARRIER CORPORATION at SYRACUSE, NEW YORK

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of New York and employed by The Hartford Steam Boiler I & I Co.
of Hartford, Conn. have inspected the pressure vessel described in this Manufacturers' Data Report on 7/12/78 19 .

and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' 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 JUL 15 1978 NB8151 PA BD NC 2561
Signed *Jack L. Shampine* Commissions OHIO COMMISSION
(Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE FOR FIELD WORK

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date Signed by
(Manufacturer) (Representative)

"U" Certificate of Authorization No. expires 19

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

of have compared the statements in this Manufacturers' Data Report with the described pressure vessel and state that parts referred to as data items not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1.

The described vessel was inspected and subjected to a hydrostatic test of psi.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturers' 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
Signed Commissions
(Authorized Inspector) (Nat'l Board, State, Province and No.)

Form No. 1616

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 10/07/2003
(NAME)
76 South Main Street – Akron, OH 44308 Sheet 1 of 2
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Order #200027711, Purchase Order 7121907
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By AMS Mechanical System, Inc. Type Code Symbol Stamp "R"
(NAME)
140 E. Tower Drive, Burr Ridge IL 60527 Authorization No. R-5525
(ADDRESS) Expiration Date April 15, 2006
4. Identification of System Service Water (Class 3)
5. (a) Applicable Construction Code Section III 19 74 Edition, --- Addenda, N-68, 1634-1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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
- Replaced the heat exchanger tube sheets and tubes.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐
 Other ☐ Pressure 225 psi Test Temp. Amb. °F

FORM NIS-2 (Back)

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 (Nat. BD #139118). Shell pneumatically tested to 423 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 Date N/A

Signed [Signature] Super. Eng. Date November 12, 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, 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.

[Signature] Commissions I, N. PA 2384
Inspector'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 18

1. Work performed by AMS Mechanical Systems, Inc. 7
(name of repair organization) (Form 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
(address)
3. Location of installation Beaver Valley Power Station -
(name)
Route 168, Shippingport, PA 15077
(address)
4. Unit identification Condenser Name of original manufacturer Carrier Corporation
(boiler, pressure vessel)
5. Identifying nos.: 9915690 139118 - - 1978
(mfg serial no.) (National Board No.) (jurisdiction no.) (other) (year built)
6. NBIC Edition / Addenda: 2001 2002
(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
(name/section/division) (edition/addenda)
7. Repair Type: ☒ Welded ☐ Graphite Pressure Equipment ☐ FRP Pressure Equipment
8. Description of Work: Replaced (2) tubesheets (SA-516 Grade 70) and (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 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 case 1518-5 applies for pneumatic testing.

CERTIFICATE OF COMPLIANCE

I, Joe Emerson, certify that to the best of my knowledge and belief the statement in this report are correct and that all material, construction, and workmanship on this Repair conform to the National Board Inspection Code.
National Board "R" Certificate of Authorization No. R-5525 expires on April 15, 2006
Date May 22, 2003 AMS Mechanical Systems, Inc. Signed [Signature]
(name of repair organization) (authorized representative)

CERTIFICATE OF INSPECTION

I, Todd Ward, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Illinois and employed by HSB CT of Hartford, Connecticut have inspected the work described in this report on May 22, 2003 and state that to the best of my knowledge and belief this work complies with the applicable requirements of the National Board Inspection Code.
By signing this certificate, neither the undersigned nor my employer make any warranty expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for Any personal injury, property damage or loss of any kind arising from or connected with this inspection.
Date May 22, 2003 Signed [Signature] Commissions AB11557 ANE 2123
(inspector) (National Board (incl. Endorsements), and jurisdiction, and no.)

Form No. 1619

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
(NAME)
76 South Main Street - Akron, OH 44308
(ADDRESS)

Date 12-02-03Sheet 1 of 2

2. Plant Beaver Valley Power Station
(NAME)
Shippingport, PA 15077
(ADDRESS)

Unit No. 2

ECP-02-0006-02, WO # 03-000353-000
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS Construction
(NAME)
Shippingport, PA 15077
(ADDRESS)

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date N/A4. Identification of System Service Water (Code Class 3)

5. (a) Applicable Construction Code ASME Section III 1971 Edition, Winter '72 Addenda, _____
 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989(c) Applicable ASME XI Code Case(s) N-416-2

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Walworth Co.	N/A	N/A	2SWS-482	1987	Removed	Yes

7. Description of Work This ECP removed 2SWS-482.

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

FORM NIS-2 (Back)

9. Remarks

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 Per 1/2 ADM-0801, "ASME XI Repair/ Replacement Program"

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Sanjib K. Mukherjee Date 12/2, 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, Connecticut have inspected the components described in the Owner's Report during the period 12-10-03 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 S. Kynick
Inspector's Signature

Commissions

I, N, PA2384
National Board, State, Province, and Endorsements

Date 12-12-, 20 03

Form No. 1625

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 10/10/2003
(NAME)
- 76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
- Shippingport, PA 15077 200027511
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By FENOC-Construction Serv. Type Code Symbol Stamp N/A
(NAME)
- Shippingport, PA 15077 Authorization No. N/A
(ADDRESS)
- Expiration Date "
4. Identification of System Service Water (Class 3)
5. (a) Applicable Construction Code Section III 19 71 Edition, W72 Addenda, --- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N-416-1

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipe	FENOC	N/A	N/A	2-SWS-002-894-3	2003	Installed	No

7. Description of Work Replaced a section of pipe.

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

FORM NIS-2 (Back)

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/ACertificate of Authorization No. N/AExpiration Date N/A

Signed

Senior 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.

Dean S. Rywik
Inspector's Signature

Commissions

I, N, PA 2384
National Board, State, Province, and Endorsements

Date 10-24-, 20 03

Form No. 1643

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
(NAME)
76 South Main Street - Akron, OH 44308
(ADDRESS)

Date 10/13/2003Sheet 1 of 1

2. Plant Beaver Valley Power Station
(NAME)
Shippingport, PA 15077
(ADDRESS)

Unit No. 2

Order #200017191
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Maintenance
(NAME)
Shippingport, PA 15077
(ADDRESS)

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date "4. Identification of System Safety Injection (Class 1)5. (a) Applicable Construction Code Section III 19 71 Edition, S72 Addenda, N/A Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Kerotest	ADF2-7	5649	2SIS-126	1975	Corrected	Yes

7. Description of Work Seal welded cover to body of valve.8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks No Code Data Report.

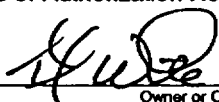
Applicable Manufacturer's Data Reports to be attached

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.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/A

Signed


Senior Eng.

Date

November 20

, 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 9-5-03 to 11-26-03, 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.



Inspector's Signature

Commissions

NA9428 ANIB PA2384
 National Board, State, Province, and Endorsements

Date

11-26-, 20 03

Form No. 1648

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 10/07/2003
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 3
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #200024834
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "

4. Identification of System Main Steam

5. (a) Applicable Construction Code Section III 19 77 Edition, S'79 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Atwood & Morrill	3-15579-03	N/A	2MSS-AOV101C	1987	Corrected	Yes
Pilot Poppet	Weir Valve	1	N/A	Ht #73130	2003	Installed	Yes
Studs	Weir Valve	N/A	N/A	Ht #61586 TR: V121	2003	Installed	No

7. Description of Work Replaced Pilot Poppet/stem assembly, two body to cover studs, and stellite
hardfacing in areas of the valve body.

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

FORM NIS-2 (Back)

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.

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 *Donna L. Wade* Savior Eng. Date October 8, 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 9-22-03 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.

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. Tizack Commissions *I, N, PA2384*
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-9-, 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

- Manufactured and certified by Weir Valves & Controls USA, Inc. 285 Canal Street Salem, MA 01970
(name and address of NPT Certificate Holder)
2. Manufactured for First Energy, P.O. Box 6100, Johnstown, PA 15907-6100
(name and address of Purchaser)
3. Location of installation Beaver Valley Nuclear Power Plant, Route 16B, Shippingport PA 15077
(name and address)
4. Type: *32446-303-C Rev. 02 SA 479, S30400 88100 PSI N/A 2003
(drawing no.) (matl. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1977 S'1979 2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A N/A N/A Date N/A
(no.)
7. Remarks: Cust. Item 04 WVC Item 40-3 Qty. 1 Pilot Poppet A&M P/N 32446-303-4226-000 QLA
(WVC S.O. 68311) *Dwg. Prepared by WVC. This certification meets required information of
ASME Section III 1977 Edition S'1979 Addenda.
8. Nom. Thickness (in.) 1.986 Min. design thickness (in.) 1.75 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) HT: 73130 S/N: 1	N/A
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

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

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure N/A At temp. °F
(when applicable)

Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in Items 2 and 3 on this Data Report is included on 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 Holders' Serial Nos. HT:73130 S/N 1 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

Design report * certified by N/A P.E. State N/A Reg. no. N/A
(when applicable)

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N2607 Expires 6-13-04

Date 9/19/03 Name Weir Valves & Controls USA, Inc. Signed Brian D. Sullivan
(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 MA,
And employed by HSBCT
of Hartford, CT have inspected these items described in this Data Report on 9/19/03, and state that to the
Best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or
loss of any kind arising from or connected with this inspection.

Date 9/19/03 Signed Paul Harmon Commissions A. N. MA1657
(authorized inspector) (Natl Bd. (incl. Endorsements) and state or prov. and no.)

1. Manufactured by Atwood & Morrill Co., Inc., 285 Canal Street, Salem, MA 01970
 (Name and Address of N Certificate Holder)
 2. Manufactured for Duquesne Light Co., * Pittsburgh, PA
 (Name and Address of Purchaser or Owner)
 3. Location of Installation Beaver Valley Station 2, Shippingport, PA
 (Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 28 Outlet Size 28
 (inch) (inch)

(a) Model No., (b) N Certificate Holder's (c) Canadian
 Series No. Serial Registration (d) Drawing (f) Nat'l. (g) Year
 or Type No. No. No. No. Class Bd. No. Built
 (1) 28" Main Steam 3-15579-03 N/A 15579-03 2 N/A 1987
 (2) Isolation Valve Rev. 02
 (3)
 (4)
 (5) *Sold to Stone & Webster Engineering Corp.
 (6)
 (7)
 (8) ** Pilot poppet material procured to ASME Section II, 1974 Edition
 (9) with Winter 1975 Addenda. Reference A&M NCR# 32446.
 (10)

5. Main Steam
 (Brief description of service for which equipment was designed)

6. Design Conditions 1085 psi 560 °F or Valve Pressure Class N/A (1)
 (Pressure) (Temperature)
 7. Cold Working Pressure 1500 psi at 100°F.

9. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
<u>Body</u>	<u>SA 216 Gr. WCC</u>	<u>Newport News Shipbuilding</u>	<u>4267B-1</u>
(b) Forgings			
<u>Poppet</u>	<u>SA 105 Q & T</u>	<u>Cann & Saul Steel</u>	<u>NV4191-2</u>
<u>Cover</u>	<u>SA 105 Q & T</u>	<u>Cann & Saul Steel</u>	<u>6068460-2</u>
<u>**Pilot Poppet</u>	<u>SA 182 Gr. F6a</u>	<u>Cann & Saul Steel</u>	<u>30611-3</u>

or manually operated valves only.

*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, and (4) each additional sheet shall be signed by the Certificate Holder and the A&M.

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
(d) Other Parts			
N/A			

9. Hydrostatic test 2250 psi. Disk Differential test pressure 1650 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1977.

Addenda Summer 1979** Code Case No. N/A Date 5/1/87

Signed Atwood & Morrill Co. Inc.

by Bruce A. Sullivan

(N Certificate Holder)

Our ASME Certificate of Authorization No. N2606 to use the N symbol expires 6-13-89

(N)

(Date)

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster Engineering

Stress analysis report (Class I only) on file at N/A

Design specifications certified by (1) Dennis Paul Lessard

PE State PA Reg. No. 34173-E

Stress analysis certified by (1) N/A

PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by H.S.B.I. & I. Co. of Hartford, CT

have inspected the pump, or valve, described in this Data Report on 30 April 1987, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 01 May 1987

(Inspector)

Commissions NA-1222/PA-1802514

(Nat'l Bd. State, Prov. and No.)

Form No. 1650

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 10/08/2003
(NAME)
76 South Main Street – Akron, OH 44308 Sheet 1 of 2
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #200023787
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "

4. Identification of System Auxiliary Feed-water (Class 3)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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

7. Description of Work Replaced Relief Valve with spare for testing purposes.

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

FORM NIS-2 (Back)

9. Remarks Code Data Reports attached. Previous NIS-2 Data Report No: 357.

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/ACertificate of Authorization No. N/A

Expiration Date

N/A

Signed

Senior 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.



Inspector's Signature

Commissions

I, NPA 2384

National Board, State, Province, and Endorsements

Date

10-14-

, 20

03

**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

1. Manufactured and certified by Dresser Flow Control, Dresser Inc. La. Hwy 3225 @ US Hwy 167 N
P. O. Box 1430 Alexandria, Louisiana 71309-1430
(name and address of NV Certificate Holder)
2. Manufactured for First Energy Corporation P. O. Box 3611 Akron, Ohio 44309-3611
(name and address of Purchaser)
3. Location of installation First Energy Corporation Beaver Valley Power Station Unit # 2 Shippingport, Pennsylvania 15077
(name and address)
4. Valve 1912KC Orifice size 2.138 Nom. Inlet size 3 Outlet size 4
(model no., series no.) SQ. IN. (in.) (in.)
5. ASME Code, Section III, Division 1: 1974 Summer 74 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Type Spring 1450 7% Saturated 4550 at Ambient °F
(spring, pilot or power operated) (set pressure, psig) (blowdown, psi) (rated temp.) (hydro. Test, psig, inlet)
7. Identification TN-39769 N/A 3NC3178 N/A 2003
(Cert. Holder's serial no.) (CRN) (drawing no.) (Nat'l. Bd. No.) (year built)
8. Control ring settings Fixed
9. Pressure retaining items:

	Serial No. or Identification	Mat'l. Spec., Including Type or Grade	Tensile Strength
Body	AD081	ASME SA216 GRADE WCC	70 ksi
Bonnet or Yoke	AD083	ASME SA216 GRADE WCC	70 ksi
Support Rods			
Nozzle	AD071	ASME SA182 GR F316	75 ksi
Disk	AD074	ASME SA479 TYPE 316	75 ksi
Spring Washers			
Adjusting Screws			
Spindle			
Spring			
Bolting	Base Stud Heat # H398	ASME SA193 GR B7	150 ksi
Other Items	Stud Nut Heat #E1D	ASME SA194 GR 2H	
Flanges			
10. Relieving capacity	<u>2173 GPM</u> @ <u>145</u> <small>(steam or fluid, lb/hr) (psi)</small>	overpressure as certified by the National Board	<u>7-12-95</u> <small>(date)</small>
11. Remarks:			

CERTIFICATION OF DESIGN

Design Specification certified by Louis P. Copian P.E. State California Reg. no. 16001
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.

NV Certificate of Authorization No. 1747 Expires 5/20/2004
Date 8-20-03 Name SEE LINE 1 Signed [Signature]
(NV Certificate Holder) (authorized representative)

* 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.

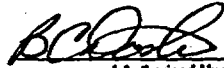
Certificate Holder's Serial No. TN-39769**CERTIFICATE OF INSPECTION**

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 8/20/03, 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

8/20/03

Signed



(Authorized Nuclear Inspector)

Commissions



(Nat'l. Bd. (incl. Endorsements) and state or prov. And no.)

Form No. 1651

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
(NAME)
76 South Main Street - Akron, OH 44308
(ADDRESS)

Date 10/09/2003Sheet 1 of 3

2. Plant Beaver Valley Power Station
(NAME)
Shippingport, PA 15077
(ADDRESS)

Unit No. 2

Order #200024381
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Construction Serv.
(NAME)
Shippingport, PA 15077
(ADDRESS)

Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date "4. Identification of System Feedwater (Class 3)5. (a) Applicable Construction Code Section III 19 71 Edition, S72 Addenda, N/A Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989(c) Applicable Section XI Code Case(s): N-416-1

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Copes-Vulcan	7310-95255-1-2	795	2FWS-FCV488	1977	Removed	Yes
Valve	CCI	101184-010-2	N/A	2FWS-FCV488	2003	Installed	Yes
Valve	Velan	941054-5	N/A	2FWS-260	1990	Installed	Yes

7. Description of Work Replaced Feedwater Regulator valve with new design, installed new drain valve.

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

FORM NIS-2 (Back)

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.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date

N/A

Signed

Senior Eng.

Date

October 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 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 D. Zignich
Inspector's Signature

Commissions

I, N, PA2384
National Board, State, Province, and Endorsements

Date 10-22-, 20 03

Pg. 1 of 2

7. Material: **Body** **SA216-WCB** **Bonnet** **SA-105** **Disk** **SA182-F11** **Bolting** **SA193-B7 & SA194-GR 7.**

[illegible]

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

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

Certificate Holder's Serial No. 101184-010-2

8. Design conditions 1860 psi 460 Deg. F or Valve pressure class N/A (1)

(pressure) (temperature)

9. Cold working pressure 2250 psi at 100 Deg. F

10. Hydrostatic test 3375 psi Disk differential pressure N/A psi

11. Remarks BONNET BOLTING:

STUDS, SA193-B7, HT # L834 (37753)

NUTS, SA194-GR 7, HT # L985 (7421869)

CERTIFICATE OF DESIGN

Design Specification certified by FRANCIS GARDNER PENNSYLVANIA 036614-E

Design Report certified by JAMSHID FARAMARZI P.E. State CALIFORNIA Reg. no. M28272

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, Div. 1.

N Certificate of Authorization No. N-2695 Expires 14 AUGUST, 2006

Date 8/26/03 Name CCI Signed Fred Zilk
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by HSB CT of HARTFORD, CONNECTICUT have inspected the pump, or valve, described in this Data Report on 8-26-2003, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump or valve, in accordance with ASME Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes 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 loss of any kind arising from or connected with this inspection.

Date 8/26/03 Signed William M. [Signature] Commissions CA1494
(Authorized Inspector) (Nat'l Bd. (including endorsement) and state or prov., and no.)

(1) For manually operated valves only.

1. Manufactured and certified by VELAN INC., 2125 WARD AVE., MTL., CANADA
(name and address of N Certificate Holder)

2. Manufactured for B & W NUCLEAR SERVICE
(name and address of purchaser)

3. Location of installation N/A
(name and address)

4. Model No., Series No., or Type GATE Drawing P1-76800-N02 Rev F CRN N/A

5. ASME Code, Section III, Division 1: 1989 NONE 1 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Pump or valve VALVE Nominal inlet size 2" Outlet size 2"
(in.) (in.)

7. Material: Body SA-105 Bonnet SA-105 Disk SA-351, CFM8 Bolting SA-193, B7
SA-194, 2H

[illegible]

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

Certificate Holder's Serial No. 941054

1. Design conditions 4175 psi 300 °F or valve pressure class 1690 (1)
(pressure) (temperature)
1. Cold working pressure 4175 psi at 100°F
10. Hydrostatic test 6350 psi. Disk differential test pressure 4650 psi
11. Remarks: MATERIALS MEET ASME SECTION II EDITION: 1989 ADDENDA: NONE

CERTIFICATE OF DESIGN

Design Specification certified by J.M. FARRELL P.E. State QUE Reg. no. 30039
 Design report certified by S. ISBITSKY P.E. State QUE Reg. no. 22115

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2797-1 Expires MAY 2, 95

Date May 12, 94 Name VELAN INC. Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of QUEBEC and employed by PROVINCE of QUEBEC have inspected the pump, or valve, described in this Data Report on May 13, 94, 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 940513 signed [Signature] Commissions JACQUES MARCHAND (1)
(Authorized Inspector) (N.B. Bd. (add. endorsements) and state or prov. and no.)

1) For manually operated valves only.

Form No. 1652

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 10/13/2003
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Order #200057872
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date
4. Identification of System Reactor Coolant (Class 1)
5. (a) Applicable Construction Code Section III 19 71 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Kerotest	JU1-17	6460	2RCS-635	1975	Corrected	Yes

7. Description of Work
- Seal welded a cap onto the valve bonnet.

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

FORM NIS-2 (Back)

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.

Type Code Symbol Stamp N/ACertificate of Authorization No. N/AExpiration Date N/A

Signed

Senior Eng.

Date

November 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 PA and employed by HSBCT of HARTFORD, CT have inspected the components described in the Owner's Report during the period 9-30-03 to 11-19-03, 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.



Inspector's Signature

Commissions

I, N, PA2384

National Board, State, Province, and Endorsements

Date 11-19-, 20 03

Form No. 1653

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 10/09/2003
(NAME)
76 South Main Street – Akron, OH 44308 Sheet 1 of 2
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 ECP 03-0016-02
(ADDRESS) Order #200029391
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Construction Serv. Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date .

4. Identification of System Service Water (Code Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

(c) Applicable Section XI Code Case(s): N-416-2

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Walworth	D-66537	1795	2SWS-MOV105B	1980	Removed	Yes
Valve	Copes-Vulcan	0320-87110-1-2	N/A	2SWS-MOV105B	2003	Installed	Yes

7. Description of Work Replaced valve with new valve type.

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

FORM NIS-2 (Back)

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.

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

Senior Eng

Owner or Owner's Designee, Title

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.

Dean S. Tiznik

Inspector's Signature

Commissions

I, N, P 42384

National Board, State, Province, and Endorsements

Date 12-10-, 20 03

Pg. 1 of

(a)
Cart
Holder's
Serial No.

(b)
Nat'l
Board
No.

(c)
Body/Casing
Serial
No.

(d)
Bonnet/Cover
Serial
No.

(c)
Disk
Serial
No.

N/A

CN 60793-33

0302

ON-607944

(7/98)

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

FORM NPV-1 (Back — Pg. 2 of _____)

Certificate Holder's Serial No. 0320-87110-1-2

8. Design conditions 150 psi 160 °F or valve pressure class N/A (1)
(pressure) (temperature)
9. Cold working pressure 275 psi at 100°F
10. Hydrostatic test 425 psi. Disk differential test pressure 150 psi
11. Remarks: Customer PO 7122785

CERTIFICATION OF DESIGN

Design Specification certified by Francis Gardner P.E. State PA Reg. no. 36614-E
Design Report certified by N/A P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-3052 Expires 10/5/04

Date 9-17-03 Name SPX Valves & Controls Signed R. J. Kent
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

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

9-17-03 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 [Signature] Commissions NA8563, N, 112274
(Authorized Nuclear Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

(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

1. Owner First Energy
(NAME)
76 South Main Street – Akron, OH 44308
(ADDRESS)

Date 10/09/2003

Sheet 1 of 2

2. Plant Beaver Valley Power Station
(NAME)
Shippingport, PA 15077
(ADDRESS)

Unit No. 2
ECP 03-0016-02
Order #200029425
Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Construction Serv.
(NAME)
Shippingport, PA 15077
(ADDRESS)

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date _____

4. Identification of System **Service Water (Class 3)**

5. (a) Applicable Construction Code Section III 19 71 Edition, W72 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

(c) Applicable Section XI Code Case(s): N-416-2

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Walworth	D-66541	1799	2SWS-MOV105D	1979	Removed	Yes
Valve	Copes-Vulcan	0320-87110-1-1	N/A	2SWS-MOV105D	2003	Installed	Yes

7. Description of Work Replaced valve with new valve type

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

FORM NIS-2 (Back)

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).

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 [Signature] Senior Eng Date December 10, 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 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.

[Signature] Commissions I, N, PA 2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-10-, 20 03

Pg. 1 of

(c)
Disk
Serial
No.

CN 607942

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

FORM NPV-1 (Back — Pg. 2 of ____)

Certificate Holder's Serial No. 0320-87110-1-18. Design conditions 150 psi 160 °F or valve pressure class N/A (1)9. Cold working pressure 275 psi at 100°F10. Hydrostatic test 425 psi. Disk differential test pressure 150 psi11. Remarks: Customer PO 7122785

CERTIFICATION OF DESIGN

Design Specification certified by Francis Gardner P.E. State PA Reg. no. 36614-E
Design Report certified by N/A P.E. State PA Reg. no. PA

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-3052 Expires 10/5/04Date 9-17-03 Name SPX Valves & Controls Signed [Signature]
(N Certificate Holder) (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Penna and employed by OneBeacon America Insurance Companyof 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 [Signature] Commissions NAB563, N P42274
(Authorized Nuclear Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 1656

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 12/19/03
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Order #200036683
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By: Westinghouse Electric Co. Nuclear Services Type Code Symbol Stamp N/A
(NAME)
20 International Drive, Windsor, CT. 06095 Authorization No. N/A
(ADDRESS) Expiration Date
4. Identification of System Reactor Coolant (Class 1)
5. (a) Applicable Construction Code Section III 1971 Edition, S72 Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Retained, or Installed	ASME Code 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
CETNA	Westinghouse	L050212	N/A	Heat No. D88408A	2003	Installed	No
CETNA	Westinghouse	L050213	N/A	Heat No. D88408A	2003	Installed	No
CETNA	Westinghouse	L050214	N/A	Heat No. D88408A	2003	Installed	No

7. Description of Work Replaced Core Exit Thermocouple Assemblies at Reactor Head Columns
E-13, C-5, L-3, and N-11

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

FORM NIS-2 (Back)

9. Remarks Four Thermocouple Nozzles 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 Date N/A

Signed Michael A. Gerardi

Owner or Owner's Designee, Title

Michael A. Gerardi Date 12/19/03

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 9-22-03 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.

Dean J. Zimble
Inspector's Signature

Commissions 189428 ANIB PA2384
National Board, State, Province, and Endorsements

Date 12-19- . 20 03

Form No. 1658

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
(NAME)Date 10-16-0376 South Main Street - Akron, OH 44308
(ADDRESS)Sheet 1 of 42. Plant Beaver Valley Power Station
(NAME)Unit No. 2Shippingport, PA 15077
(ADDRESS)ECP-03-0061-03, ECP-03-0061-04, ECP-03-0061-05 & ECP-03-0061-06

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

3. Work Performed By BVPS Construction
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Service Water (Code Class 3)5. (a) Applicable Construction Code ASME Section III 1971 Edition, Winter '72 Addenda, Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989(c) Applicable Section XI Code Case(s) N-416-1

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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	N/A	N/A	N/A	2-SWS-002-101-3	2003	Installed	No
Pipe	N/A	N/A	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	N/A	N/A	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	N/A	N/A	2-SWS-002-93-3	2003	Installed	No
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	N/A	N/A	N/A	2-SWS-003-182-3	2003	Installed	No
Pipe	N/A	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

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	A030501-1-3	N/A	2SWS-1214	2003	Installed	Yes
Valve	BNL Industries, Inc	A030501-1-1	N/A	2SWS-1215	2003	Installed	Yes

7. Description of Work This ECP replaced SWS Carbon Steel supply and return lines for Charging Pump Lube Oil Coolers (2CHS-E25A/B/C) with corrosion resistant AL6XN piping and fittings. This ECP also replaced existing Carbon Steel Gate, Globe and Ball valves with Stainless Steel Ball valves.

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure 165 psi Test Temp. Ambient °F

FORM NIS-2 (Back)

9. Remarks Code Case N-416-1 was invoked in portions of the piping which are non-isolable. NDE and an ISLT was performed and visual examination (VT-2) in accordance with 1992 Edition of ASME Section XI Code.

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 Per 1/2 ADM-0801, "ASME XI Repair/ Replacement Program"

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

Sanjay K. Mukherjee
Sanjay K. Mukherjee

Date

10-16

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, Connecticut have inspected the components described in the Owner's Report during the period 8-1-03 to 10-16-03, 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 L. Zyzanski
Inspector's Signature

Commissions

I, N, PA 2384
National Board, State, Province, and Endorsements

Date 10-16-, 20 03

Pg. 1 of 2

[illegible]

(12/88)

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

FORM NPV-1 (Back - Pg. 2 of ²)

Certificate Holder's Serial No. A030501-1-(1THRU4)

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 150# (1)
(pressure) (temperature)

9. Cold working pressure 150PSIG @ 120F psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 320 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by F.W. GARDINER P.E. State PA Reg. no. 036614-E
 Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2882 Expires 11/10/04

Date 08/21/03 Name BNL INDUSTRIES, INC. Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONN. and employed by ONEBEACON AMERICA INS. of BOSTON, MA have inspected the pump, or valve, described in this Data Report on 08/21/03, 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 8/21/03 Signed [Signature] Commissions NB 2887 NA 67104
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Pg. 1 of 2

[illegible]

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

FORM NPV-1 (Back - Pg. 2 of ²)

Certificate Holder's Serial No. A030501-2- (1THRU12)

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 150# (1)
(pressure) (temperature)

9. Cold working pressure 150PSIG @ 120F psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 320 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by F.W. GARDINER P.E. State PA Reg. no. 036614-E
 Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2882 Expires 11/10/04

Date 08/21/03 Name BNL INDUSTRIES, INC. Signed [Signature]
(In 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 CONN. and employed by ONEBEACON AMERICA INS.

of BOSTON, MA have inspected the pump, or valve, described in this Data Report on 08/21/03, 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 8/21/03 Signed [Signature] Commissions NB 7867 NA CT1104
(Authorized Inspector) [Nat'l Bd. (incl. endorsement) and state or prov. and no.]

(1) For manually operated valves only.

Form No. 1661 ⁵⁷ *1/2/03*

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 10/08/2003
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 2
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #200025234, 200055363
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date *
4. Identification of System Reactor Coolant (Class 1)
5. (a) Applicable Construction Code Section III 19 71 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Relief Valve	Crosby Valve	N56963-00-0009	206	2RCS-RV551B	1976	Removed	Yes
Relief Valve	Crosby Valve	N56963-000-0008	N/A	2RCS-RV551B	1976	Installed	Yes
Nozzle	Crosby Valve	N90556-33-0002	N/A	Ht #534661	1975	Installed	Yes

7. Description of Work Replaced valve with spare for testing purposes. The replacement valve was corrected by replacing the nozzle.

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

FORM NIS-2 (Back)

9. Remarks Previous NIS-2 Data Report Nos: 1204, 1197, 1157, 847, 686, 247, 054, 045, 015, 009.
Applicable Manufacturer's Data Reports to be attached
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 [Signature] Senior Eng. Date December 10, 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 9-30-03 to 12-15-03, 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.

[Signature] Commissions I, N, PA 2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-15-, 20 03

CROSBY**CROSBY VALVE & GAGE COMPANY**
WRENTHAM, MASSFORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

Q.C.-44B

DATA REPORT
Safety and Safety Relief Valves

- 1 Manufactured By Crosby Valve & Gage Company, 43 Kendrick Street, Wrentham, Ma. 02093
 Assem. No. N-56963-Mod. 1 Name and Address
 Model No. 6M-6 HR-86RP Order No. N-303142 Contract Date 4-4-73
Westinghouse Electric Corp., Nuclear
- 2 Manufactured For Energy Systems, Pittsburgh, Pa. 15230 Order No. 546-CCK-178342-BN
 Name and Address
- 3 Owner Alabama Power Company
 Name and Address
- 4 Location of Plant Joseph M. Farley Nuclear Plant, Unit No. 1, Columbia, Alabama
- 5 Valve Identification 6RV88LSR Serial No. N56963-01-0001 Drawing No. DS-C-56963-1 Rev. 0
 Type Safety Orifice Size 1.952 Pipe Size - Inlet 6 Outlet 6
Safety, Safety Relief, Pilot, Power Actuated Inch Inch Inch Inch
 6 Set Pressure (PSIG) 2485 650° F
 Rated Temperature
 Stamped Capacity 344972 lbs/hr. 3 % Overpressure 5% Blowdown (PSIG) 125 psig
 Hydrostatic Test (PSIG) Inlet 4575 psig Complete Valve 750 psig
7. The material, design, construction and workmanship comply with ASME Code, Section III
 Class 1 Edition 1971 Addenda Date Winter 1972

Pressure Containing or Pressure Retaining Components

a. Bar Stock and Forgings	Serial No. Identification	Material Specification Including Type or Grade
Body	✓ N90490-35-0012	ASTM-A182-71 F316
Bonnet	✓ N90353-35-0024	ASME-SA182 F316
		ASTM-A105 Gr. 2
		ASME-SA105 Gr. 2
b.		
Support Rods		
Nozzle	✓ N90556-33-0002	ASTM-A182-71 F316
		ASME-SA182 F316
Disc Holder	✓ N90553-31-0005	ASTM-A637 Gr. 718
	N90350-33-0066	ASTM-A105 Gr. 2
Spring Washers	N90350-33-0091	ASME-SA105 Gr. 2
Adjusting Bolt	N90351-35-0050	ASTM-A193-71 Gr. B6
		ASME-SA193 Gr. B6
Spindle Point	✓ N90354-34-0029	ASTM-A193-71 Gr. B6
		ASME-SA193 Gr. B6
Disc Insert	✓ N90349-43-0028	Haynes Stellite No. 6B
Spindle Ball	N90355-0029	ASTM-A276 Type 440-C

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	<u>NX-2761-0047</u>	<u>ASTM-A304 Gr. 51B60H</u>
d. Bolting		
e. Other Parts such as Pilot Components		
Bonnet Stud	100987	ASTM-A453-70 Gr. 660 ASME-SA453 Gr. 660
Bonnet Stud Nut	89997	ASTM-A193-71 Gr. B6 ASME-SA193 Gr. B6
Inlet Stud	N90488	ASTM-A453-70 Gr. 660 ASME-SA453 Gr. 660
Inlet Stud Nut	N90489	ASTM-A193-71 Gr. B6 ASME-SA193 Gr. B6

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

Date 9-4 19 75 Signed Crosby Valve & Gage Co. By [Signature]
Manufacturer QA Manager

Certificate of Authorization No. 926 expires October 28, 1977

Design information on file at Crosby Valve & Gage Company,
Wrentham, Ma. Design Report No. EC-155.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Factory Mutual Systems*, Norwood, Mass. have inspected the equipment described in this Data Report on 9-9 19 75 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

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

Date September 9 19 75
[Signature] (Inspector) Commissions: NB 7565
National Board, State, Province and No. 1

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual
Boiler & Machinery Division.

Form No. 1660

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 12/01/2003
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 2
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Order #200027218
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date

4. Identification of System Reactor Coolant (Class 1)
5. (a) Applicable Construction Code Section III 19 77 Edition, S'79 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Power Relief Valve	Garrett Pneumatic	P-119	N/A	2RCS-PCV456	1983	Corrected	Yes
Plug	Anderson Greenwood Crosby	N96012-68-0132	N/A	N/A	2000	Installed	Yes

7. Description of Work Replaced valve plug assembly.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Report Nos: 1441, 1195, 1042, 539,
360, 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

Signed [Signature] Senior Eng. Date December 1, 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 10-6-03 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.

[Signature] Commissions I, N. P#2384
 Inspector's Signature National Board, State, Province, and Endorsements

Date 12-3-, 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, Division 1 - Not to Exceed One Day's Production

Manufactured and certified by Anderson Greenwood Crosby, 43 Kendrick St., Wrentham, MA 02093

(Name and Address of N Certificate Holder)

2. Manufactured for FIRST ENERGY

(Name and Address of Purchaser or Owner)

3. Location of Installation BEAVER VALLEY POWER STATION

(Name and Address)

4. Type DS-C-67970-13REV.G SA479 TYPE 316 75,000 — 2000
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1977 SUMMER 1979 1 —
(edition) (addenda date) (class) (Code Case No.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —
(no.)

7. Remarks

8. Nom. thickness (in.) — Min. design thickness (in.) — Dia. ID (ft & in.) — Length overall (ft & in.) —

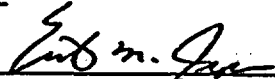
9. When applicable, Certificate Holders' data reports are attached for each item of this report.

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>N96012-68-0131</u>	<u>—</u>	(26) <u>—</u>	<u>—</u>
(2) <u>N96012-68-0132</u>	<u>—</u>	(27) <u>—</u>	<u>—</u>
(3) <u>N96012-68-0133</u>	<u>—</u>	(28) <u>—</u>	<u>—</u>
(4) <u>—</u>	<u>—</u>	(29) <u>—</u>	<u>—</u>
(5) <u>—</u>	<u>—</u>	(30) <u>—</u>	<u>—</u>
(6) <u>—</u>	<u>—</u>	(31) <u>—</u>	<u>—</u>
(7) <u>—</u>	<u>—</u>	(32) <u>—</u>	<u>—</u>
(8) <u>—</u>	<u>—</u>	(33) <u>—</u>	<u>—</u>
(9) <u>—</u>	<u>—</u>	(34) <u>—</u>	<u>—</u>
(10) <u>—</u>	<u>—</u>	(35) <u>—</u>	<u>—</u>
(11) <u>—</u>	<u>—</u>	(36) <u>—</u>	<u>—</u>
(12) <u>—</u>	<u>—</u>	(37) <u>—</u>	<u>—</u>
(13) <u>—</u>	<u>—</u>	(38) <u>—</u>	<u>—</u>
(14) <u>—</u>	<u>—</u>	(39) <u>—</u>	<u>—</u>
(15) <u>—</u>	<u>—</u>	(40) <u>—</u>	<u>—</u>
(16) <u>—</u>	<u>—</u>	(41) <u>—</u>	<u>—</u>
(17) <u>—</u>	<u>—</u>	(42) <u>—</u>	<u>—</u>
(18) <u>—</u>	<u>—</u>	(43) <u>—</u>	<u>—</u>
(19) <u>—</u>	<u>—</u>	(44) <u>—</u>	<u>—</u>
(20) <u>—</u>	<u>—</u>	(45) <u>—</u>	<u>—</u>
(21) <u>—</u>	<u>—</u>	(46) <u>—</u>	<u>—</u>
(22) <u>—</u>	<u>—</u>	(47) <u>—</u>	<u>—</u>
(23) <u>—</u>	<u>—</u>	(48) <u>—</u>	<u>—</u>
(24) <u>—</u>	<u>—</u>	(49) <u>—</u>	<u>—</u>
(25) <u>—</u>	<u>—</u>	(50) <u>—</u>	<u>—</u>

10. Design pressure — psi. Temp. — ° F Hydro. test pressure 6125 at temp. 70 ° F
(when applicable)

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

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

Certificate Holder's Serial No. N96012-68-0131**CERTIFICATE OF DESIGN**Design specifications certified by LIKE EZEKOYE P.E. State PA Reg. no. 18379-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) _____ Plugs
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1877 Expires Sep. 30, 2001Date 7 APR 00 Signed Anderson Greenwood Crosby by Wrentham, MA 
(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 10, 20 00 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 04-10, 20 00Signed 
(Authorized Inspector)Commissions MA-1418 N
(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 First Energy Date 12/08/2003
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 2
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Work Order #200060100
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "
4. Identification of System Safety Injection (Class 2)
5. (a) Applicable Construction Code Section III 19 74 Edition, S75 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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

7. Description of Work
- Replaced plug (trim assembly).

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

FORM NIS-2 (Back)

9. Remarks Code Data Reports attached.

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/ACertificate of Authorization No. N/AExpiration Date N/A

Signed

Senior Eng.

Owner or Owner's Designee, Title

Date

December 9, 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 10-6-03 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.



Inspector's Signature

Commissions

I, N, PA 2384
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 ____

1. Manufactured and certified by DeZurik/Copes-Vulcan, 9843 Martin Avenue, Lake City, PA 16423
(Name and address of NPT Certificate Holder)
2. Manufactured for First Energy Corp., Akron, OH 44309-3611
(Name and address of Purchaser)
3. Location of installation Beaver Valley, Pennsylvania Power, Shippingport, PA
(Name and address)
4. Type: L-180843 Rev. 1 A276 Typ 420* N/A N/A 2001
(drawing no.) (met'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1974 Summer 1975 .2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: Plug for 2" Trim Set per Valve Assembly Drawing E-180867 Rev. 2
- Cust. P.O. 7067498 CV Job 0121-96237

Ref. CV Job 7720-95387

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>0121-96237-1-1 (01-03)</u>	<u>N/A</u>
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

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

10. Design pressure 2485 psi. Temp. 650 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

(12/86)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive Box 2300, Fairfield, NJ 07007-2300

Reprint (7/91)

CERTIFICATION OF DESIGN

Design specifications certified by N/A P.E. State _____ Reg. no. _____
(when applicable)

Design report* certified by N/A 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) Plug
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-3053 Expires 10/5/04

Date 11-16-01 Name DeZurik/Copes-Vulcan Signed [Signature]
(NPT Certificate Holder) (Authorized Representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of
Penna and employed by Factory Mutual Insurance Company

of Johnston, RI have inspected these items described in this Data Report on 11-16-01, and state that to the
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section
III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 11-16-01 Signed [Signature] Commissions QA2274
(Authorized Inspector) (Nat'l Bd. Incl. endorsements) and state or prov. and no.]

Form No. 1662

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 10/13/2003
(NAME)
76 South Main Street – Akron, OH 44308
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Order #200013138
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date

4. Identification of System Service Water (Class 3)
5. (a) Applicable Construction Code Section III 19 74 Edition, S74 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes, or No)
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 Replaced valve with spare.

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

FORM NIS-2 (Back)

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.

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

Senior Eng.

Date

December 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 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.

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. Hymel
Inspector's Signature

Commissions

I, N, P+2384

National Board, State, Province, and Endorsements

Date 12-12- 20 03

Form No. 1664

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 10/10/2003
(NAME)
76 South Main Street – Akron, OH 44308 Sheet 1 of 1
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 200015645
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "

4. Identification of System Steam Vent (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, W74 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Enertech	11026	N/A	2SVS-80	2000	Corrected	Yes
Stud	Nova Machine	N/A	N/A	Ht #13853-F204	2003*	Installed	No
Nut	Nova Machine	N/A	N/A	Ht #10280 F288	2003*	Installed	No

7. Description of Work Replaced flange studs and nuts.

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

FORM NIS-2 (Back)

9. Remarks No Code Data Report for material. Previous NIS-2 Data Report Nos: 1340, 783, 571, 363,
222, and 081. *Year installed.

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

Owner or Owner's Designee, Title

Saver Euy.

Date

October 13

, 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 10-14-03 to 10-15-03, 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. Niznik
Inspector's Signature

Commissions

I, N, PA 2384
National Board, State, Province, and Endorsements

Date 10-15-, 20 03

Form No. 1665

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 10/10/2003
(NAME)
76 South Main Street – Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 200056455
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.
3. Work Performed By FENOC-Maintenance Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "
4. Identification of System Steam Vent (Class 2)
5. (a) Applicable Construction Code Section III 19 74 Edition, W74 Addenda, --- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
 (c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
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 of Work Replaced flange studs and nuts.

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

FORM NIS-2 (Back)

9. Remarks No Code Data Report for material. Previous NIS-2 Data Report Nos: 1451, 1155, 785,
555, 364, 224, and 083. * Year installed.

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

[Signature]

Senior 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 10-15-03, 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.

[Signature]
Inspector's Signature

Commissions

I, N, PA 2384
National Board, State, Province, and Endorsements

Date

10-15-

, 20

03

Form No. 1666**FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY**
As Required by the Provisions of the ASME Code Section XI1. Owner First Energy
(NAME)Date 10-16-0376 South Main Street - Akron, OH 44308
(ADDRESS)Sheet 1 of 22. Plant Beaver Valley Power Station
(NAME)Unit No. 2Shippingport, PA 15077
(ADDRESS)ECP-02-0225-01

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

3. Work Performed By BVPS Construction
(NAME)Type Code Symbol Stamp N/AShippingport, PA 15077
(ADDRESS)Authorization No. N/AExpiration Date N/A4. Identification of System Service Water (Code Class 3)5. (a) Applicable Construction Code ASME Section III 1971 Edition, Winter '72 Addenda, Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989(c) Applicable Section XI Code Case(s) N-416-1

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pipe	N/A	N/A	N/A	2-SWS-030-76-3	2003	Installed	No

7. Description of Work This ECP installed pipe spool with flanges to facilitate removal of Check Valve 2SWS-1068. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure psi Test Temp. 71°F

FORM NIS-2 (Back)

9. Remarks Code Case N-416-1 was invoked for this ECP, NDE and an ISLT were performed and visual examination (VT-2) in accordance with 1992 Edition of ASME Section XI Code.

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 Per 1/2 -ADM-0801, ASME XI Repair/Replacement Program

Certificate of Authorization No. N/A Expiration Date N/A

Signed Sanjit K. Mukherjee Date 10-16- 2003
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, 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 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. Nijmeh Commissions I, D., PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-16- 2003

Form No. 1667

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 Nuclear Operating Company Date 10/23/03
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Westinghouse P.O. 7024829
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS/Project Management Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date N/A

4. Identification of System Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, S72 Addenda, See N-1 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition

(c) Applicable Section XI Code Case(s)

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Steam Generator	Westinghouse	DMGT-1961	W-16598	2RCS-SG21A	1977	Corrected	Yes

7. Description of Work Installed 26 Inconel 690 plugs in 13 tubes. Installed stabilizers in 9 tube locations.

Installed new gaskets on primary manways & secondary side 2.0" inspection ports.

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

FORM NIS-2 (Back)

9. Remarks ASME work order 200021122A

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 per 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Hy Alberti

Senior Nuclear Advisor

Date 10/23, 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 PA and employed by HSA CT of HARTFORD, CT

have inspected the components described in the

Owner's Report during the period 9-2-03 to 10-29-03, 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. Rignoli
Inspector's Signature

Commissions I, N, PA 2384

National Board, State, Province, and Endorsements

Date 10-29-, 20 03

Form No. 1668

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 Nuclear Operating Company Date 10/23/03
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Westinghouse P.O. 7024829
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS/Project Management Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date N/A

4. Identification of System Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 19.71 Edition, S72 Addenda, See N-1 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition

(c) Applicable Section XI Code Case(s)

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	Name and National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Steam Generator	Westinghouse	DMGT-1962	W-16599	2RCS-SG21B	1977	Corrected	Yes

7. Description of Work Installed 26 Inconel 690 plugs in 13 tubes. Installed stabilizers in 7 tube locations.

Installed new gaskets on primary manways & secondary side 2.0" inspection ports.

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

FORM NIS-2 (Back)

9. Remarks ASME work order 200021098

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 per 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program"Certificate of Authorization No. N/A

Expiration Date

N/A

Signed

Hy Albert

Senior Nuclear Advisor

Date

10/23, 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 PA and employed by HSB CT of

HARTFORD, CT, have inspected the components described in theOwner's Report during the period 9-2-03 to 7-29-03, 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. Nymish
Inspector's Signature

Commissions

I, N, PA 2384
National Board, State, Province, and EndorsementsDate 10-29-, 20 03

Form No. 1669

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 Nuclear Operating Company Date 10/23/03
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Westinghouse P.O. 7024829
(ADDRESS) Repair/Replacement Organization P.O. No., Job No., etc.

3. Work Performed By BVPS/Project Management Type Code Symbol Stamp N/A
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date N/A

4. Identification of System Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, S72 Addenda, See N-1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989 Edition
 (c) Applicable Section XI Code Case(s) None

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Steam Generator	Westinghouse	DMGT-1963	W-16600	2RCS-SG21C	1977	Corrected	Yes

7. Description of Work Installed 40 Inconel 690 plugs in 20 tubes. Installed stabilizers in 3 tube locations.
Installed new gaskets on primary manways & secondary side 2.0" inspection ports.

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

FORM NIS-2 (Back)

9. Remarks ASME work order 200018614

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 per 1/2 ADM-0801, "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Hy Albert Senior Nuclear Advisor
Owner or Owner's Designee, Title

Date 10/23, 2003

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 HSB CT of HARTFORD, CT have inspected the components described in the Owner's Report during the period 9-2-03 to 10-29-03, 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. Rynik
Inspector's Signature

Commissions

I, N. PA2384
National Board, State, Province, and Endorsements

Date 10-29-, 20 03

Form No. 1671

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

1. Owner F.E.N.O.C. Date 12/08/03
(NAME)
- 76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
- Shippingport, PA 15077 Order # 200028558
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By BVPS - Nuclear Construction. Type Code Symbol Stamp Not Applicable
(NAME)
- Shippingport, PA 15077 Authorization No. N/A
(ADDRESS)
- Expiration Date "
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989E
6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (YES or NO)
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

7. Description of Work Replaced snubber with spare for testing/refurbishment purposes.

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

FORM NIS-2 (Back)

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. 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
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 9-15-03 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 D. Zyink Commissions I, N, P 42384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-8-, 20 03

Form No. 1672

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

1. Owner F.E.N.O.C. Date 12/08/03
(NAME)
- 76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
- Shippingport, PA 15077 Order # 200028624
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By BVPS - Nuclear Construction. Type Code Symbol Stamp Not Applicable
(NAME)
- Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date *
4. Identification of System Chemical and Volume Control
5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989E
6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (YES or NO)
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	Lisega	61211/70	N/A	2CHS-PSSP025X	---	Replacement	No

7. Description of Work Replaced snubber with spare for testing/refurbishment purposes.

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

FORM NIS-2 (Back)

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. 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
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 9-15-03 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. Trivelpiece Commissions I.N. PA2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-8-, 20 03

Form No. 1673

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

1. Owner F.E.N.O.C. Date 12/08/03
(NAME)
- 76 South Main Street – Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
- Shippingport, PA 15077 Order # 200028697
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By BVPS - Nuclear Construction. Type Code Symbol Stamp Not Applicable
(NAME)
- Shippingport, PA 15077 Authorization No. N/A
(ADDRESS)
- Expiration Date "
4. Identification of System Containment Depressurization
5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989E
6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (YES or NO)
Snubber	Pacific Scientific	29989	N/A	2QSS-PSSP131Y	---	Replaced	No
Snubber	Pacific Scientific	16260	N/A	2QSS-PSSP131Y	---	Replacement	No

7. Description of Work Replaced snubber with spare for testing/refurbishment purposes.

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

FORM NIS-2 (Back)

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. 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 Brooker Date Dec 8, 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 9-15-03 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. Nigro Commissions I.N. P42384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-8-, 20 03

Form No. 1674

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

1. Owner F.E.N.O.C. Date 12/08/03
(NAME)
- 76 South Main Street – Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
- Shippingport, PA 15077 Order # 200028703
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By BVPS - Nuclear Construction. Type Code Symbol Stamp Not Applicable
(NAME)
- Shippingport, PA 15077 Authorization No. N/A
(ADDRESS)
- Expiration Date
4. Identification of System Residual Heat Removal
5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989E

6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (YES or NO)
Snubber	Pacific Scientific	15876	N/A	2RHS-PSSP007	---	Replaced	No
Snubber	Pacific Scientific	6268	N/A	2RHS-PSSP007	---	Replacement	No

7. Description of Work Replaced snubber with spare for testing/refurbishment purposes.

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

FORM NIS-2 (Back)

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. 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 Broshe Date Dec 8, 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 9-15-03 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. Zignale Commissions I, N, P 2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-8-, 20 03

Form No. 1675

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

1. Owner F.E.N.O.C.
(NAME)
76 South Main Street – Akron, OH 44308
(ADDRESS)
- Date 12/08/03
- Sheet 1 of 1
2. Plant Beaver Valley Power Station
(NAME)
Shippingport, PA 15077
(ADDRESS)
- Unit No. 2
- Order # 200028716
REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By BVPS - Nuclear Construction.
(NAME)
Shippingport, PA 15077
(ADDRESS)
- Type Code Symbol Stamp Not Applicable
- Authorization No. N/A
- Expiration Date .
4. Identification of System Safety Injection
5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989E
6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (YES or NO)
Snubber	Pacific Scientific	30039	N/A	2SIS-PSSP358Y	---	Replaced	No
Snubber	Pacific Scientific	29989	N/A	2SIS-PSSP358Y	---	Replacement	No

7. Description of Work Replaced snubber with spare for testing/refurbishment purposes.

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

FORM NIS-2 (Back)

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. 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 Bisola Date Dec 8, 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 9-15-03 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. Niznik Commissions I, N, P 72384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-8-, 20 03

Form No. 1676

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

1. Owner F.E.N.O.C. Date 12/08/03
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)

2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Order # 200028726
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.

3. Work Performed By BVPS - Nuclear Construction. Type Code Symbol Stamp Not Applicable
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "

4. Identification of System Safety Injection

5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989E

6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (YES or NO)
Snubber	Pacific Scientific	25708	N/A	2SIS-PSSP014A	---	Replaced	No
Snubber	Pacific Scientific	20931	N/A	2SIS-PSSP014A	---	Replacement	No

7. Description of Work Replaced snubber with spare for testing/refurbishment purposes.

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

FORM NIS-2 (Back)

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. 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 Brookes Date Dec-8, 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 9-15-03 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. Niznik Commissions I, N. P+2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-8-, 20 03

Form No. 1677

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

1. Owner F.E.N.O.C. Date 12/08/03
(NAME)
76 South Main Street - Akron, OH 44308 Sheet 1 of 1
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Order # 200028730
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By BVPS - Nuclear Construction. Type Code Symbol Stamp Not Applicable
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "
4. Identification of System Safety Injection
5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989E
6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (YES or NO)
Snubber	Pacific Scientific	25313	N/A	2SIS-PSSP450X	---	Replaced	No
Snubber	Pacific Scientific	19385	N/A	2SIS-PSSP450X	---	Replacement	No

7. Description of Work Replaced snubber with spare for testing/refurbishment purposes.

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

FORM NIS-2 (Back)

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. 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
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 9-15-03 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 J. Tizik Commissions I.N., P12384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-8-, 20 03

Form No. 1678

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

1. Owner F.E.N.O.C. Date 12/08/03
(NAME)
76 South Main Street - Akron, OH 44308
(ADDRESS)
2. Plant Beaver Valley Power Station Unit No. 2
(NAME)
Shippingport, PA 15077 Order # 200028738
(ADDRESS) REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.
3. Work Performed By BVPS - Nuclear Construction. Type Code Symbol Stamp Not Applicable
(NAME)
Shippingport, PA 15077 Authorization No. N/A
(ADDRESS) Expiration Date "
4. Identification of System Service Water
5. (a) Applicable Construction Code Section III 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989E
6. Identification of Components Repaired or Replaced and Replacements Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, Or Replacement	ASME Code Stamped (YES or NO)
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

7. Description of Work Replaced snubber with spare for testing/refurbishment purposes.

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

FORM NIS-2 (Back)

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. 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
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 9-15-03 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 L. Hignit Commissions I.N. P+2384
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-8-, 20 03

Form No. 1672 ⁶²
_{12/11/03}**FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY**
As Required by the Provisions of the ASME Code Section XI1. Owner First Energy
(NAME)
76 South Main Street - Akron, OH 44308
(ADDRESS)Date 12/11/2003Sheet 1 of 22. Plant Beaver Valley Power Station
(NAME)
Shippingport, PA 15077
(ADDRESS)Unit No. 2Work Order #02-014832-000
Repair/Replacement Organization P.O. No., Job No., etc.3. Work Performed By FENOC-Maintenance
(NAME)
Shippingport, PA 15077
(ADDRESS)Type Code Symbol Stamp N/AAuthorization No. N/AExpiration Date "4. Identification of System Service Water (Class 3)5. (a) Applicable Construction Code Section III 19 74 Edition, S74 Addenda, N/A Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989(c) Applicable Section XI Code Case(s): N/A

6. Identification of Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Mission	B4582	N/A	2SWS-57	1976	Removed	Yes
Check Valve	Crane Nuclear	D0939	N/A	2SWS-57	2002	Installed	Yes

7. Description of Work Replaced valve with spare.8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐
Other ☐ Pressure psi Test Temp. °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 1443.

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/ACertificate of Authorization No. N/A Expiration Date N/ASigned [Signature] Senior Eng. Date December 19, 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 Harford CT. have inspected the components described in the Owner's Report during the period 12-15-03 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.

Dean S. Ryznik Commissions I, N, PA2384
Inspector's Signature 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

1. Manufactured and certified by CRANE Nuclear, Inc., 860 Remington Boulevard, Bolingbrook, IL 60440
(name and address of NPT Certificate Holder)
2. Manufactured for First Energy Corporation, PO Box 345 Shippingport, PA 15077
(name and address of purchaser)
3. Location of installation Long Term Storage Facility, Shippingport Hill Road, Shippingport, PA 15077
(name and address)
4. Model No., Series No., or Type 15 SEF-X04 Drawing CB02839 Rev. B CRN N/A
5. ASME Code, Section III, Division 1: 1974 Summer 1974 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Pump or valve Duo-Chek Valve Nominal Inlet size 30 Outlet size 30
(in.) (in.)

7. Material:

(a) valve	Body	<u>SA216 WCB</u>	Bonnet	<u>N/A</u>	Disk	<u>SA216 WCB</u>	Bolting	<u>SA479 TP 316A</u>
(b) pump	Casting	<u>N/A</u>	Cover	<u>N/A</u>	Bolting	<u>N/A</u>		
(a) Cert. Holder's Serial No.	(b) Nat'l Board No.		(c) Body/Casing Serial No.		(d) Bonnet/Cover Serial No.		(e) Disk Serial No.	

D0939

N/A

D0940

N/A

D0941 & D0942

* 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

Certificate Holder's Serial No. D0939

- 8 Design conditions 200 (pressure) Psi 300 (temperature) °F or valve pressure class ANSI 150 (1)
- 9 Cold working pressure 285 Psi at 100°F
- 10 Hydrostatic test 450 Psi Disk differential test pressure 315 Psi
- 11 Remarks: PO No. 7083942, Rev. 0, Item No. 1 SO No. 14362-01 Valve ID: VCI-015-C-3
Supplier: Dubose, PO #26885, Hinge/Stop Pin Retainers, Ht. #56457
Supplier: PRL, PO #26883, Body Ht. #02178, RT S/N R640, Plates Ht #02178 RT S/N R641, Ht. #02198, RT S/N R642

CERTIFICATION OF DESIGN

Design Specifications certified by Walter Joseph Parker, Jr. P.E. State PA Reg. no. 24003-E

Design Report certified by N/A P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2899 Expires September 24, 2005

Date 10/21/02 Name CRANE Nuclear, Inc. Signed Garrett Petrovich
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by Factory Mutual Insurance Company of Johnston, RI have inspected the pump, or valve, described in this Data Report on 10/21/02 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 loss of any kind arising from or connected with this inspection.

Date 10/21/02 Signed James Bush Commissions IL 1077
(Authorized Nuclear Inspector) (Natl. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.