FENOC

FirstEnergy Nuclear Operating Company

Beaver Valley Power Station
P.O. Box 4
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Senior Vice President

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January 19, 2001
L-01-008

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
Eighth 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 eighth refueling outage at Beaver Valley Unit No. 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 Beaver Valley Unit No. 2 ended on October 24, 2000.

The Class 1, 2 and 3 examinations are part of Interval 2, Period 1 of the Unit No. 1 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.

If you have any questions concerning this matter, please contact Mr. Thomas S. Cosgrove, Manager, Regulatory Affairs at 724-682-5203.

Sincerely,

Lew W. Myers

Lew W. Myers

c: Mr. L. J. Burkhart, Project Manager
Mr. D. M. Kern, Sr. Resident Inspector
Mr. H. J. Miller, NRC Region I Administrator
Mr. J. Payton, Commonwealth of Pennsylvania

A047

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

Outage 8, Year 2000

Inspection Term: 4/12/1999 to 10/24/2000

Issue date: 1/17/01

Owner: FirstEnergy Nuclear Operation Company
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: 1/9/01

Reviewed by: _____ Date: 1/11/01
Supervisor, ISI/IST/Maintenance Rule

Reviewed by: _____ Date: 1/17/01
ANII

Approved by: _____ Date: 1/17/01
Manager, Engineering Technical Support

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

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

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering	CE-9071	160591B	21669
Pressurizer	Westinghouse	1911	485064V	W18695
2RHS-E21A	Atlas Industrial Co.	215341	485068V	2853
2RHS-P21A	Ingersoll-Dresser	1274-26	N/A	N/A
2RSS-E21A	Joseph Oat	2189-1A	485070V	890
Reactor Coolant Piping	Southwest Fabricating	N/A	N/A	N/A
Auxiliary Piping	Schneider Power	N/A	N/A	N/A

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

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

FORM NIS-1 (Back)

8. Examination Dates 04/12/1999 to 10/24/2000

9. Inspection Period Identification: 11/17/1997 to 12/29/2001

10. Inspection Interval Identification: 11/17/1997 to 08/29/2008

11. Applicable Edition of Section XI 1989 Addenda None

12. Date/Revision of Inspection Plan: 2TYPP-2, 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) and IA (Limited Exams) for exams performed during the fuel cycle prior to 2R08 and during 2R08. The Code completion percentage requirements for the 1st Period of the 2nd Interval have been fulfilled.**

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 2R08.**

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 1/9/01 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 Factory Mutual Insurance Co. of Johnston, RI have inspected the components described in this Owner's Report during the period 04/12/99 to 10/24/2000 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.

Robert Cimecht Commissions NB7509 (N, I), PA2162
Inspector's Signature National Board, State, Province and Endorsements

Date Jan 17, 2001

OUTAGE SUMMARY

During the Eighth Refueling Outage (2R08) at the Beaver Valley Power Station, Unit 2, Inservice Inspection (ISI) examinations were performed on Class 1, 2, 3 and MC components. This was the second outage in the first period of the second ten year interval. Also included in this report and the counts below, are examinations performed prior to 2R08 during plant operation. The examinations were based on ASME Section XI, 1989 Edition. All of the required examinations for the current period have been performed. Appendix IA contains limited examinations that require relief requests. The Code completion percentage requirements have been met without including the limited examinations.

ASME XI Class 1, 2 and 3 Credited Exams (See Appendix I)

1. Eighty-three (83) Class 1 exams were performed and are divided as follows:

   a. Welds (piping, and attachments)
      - Mag Particle Exams - 1
      - Penetrant Exams - 2

   b. Reactor Vessel bolting
      - Ultrasonic Exams - 19
      - Mag Particle Exams - 19
      - Visual Exams - 38

   c. Visual Examinations
      - RV interior (VT-1) - 1
      - Supports (VT-3) - 2
      - Valve body (VT-3) - 1

2. Sixty-one (61) Class 2 exams were performed and are divided as follows:

   a. Welds (vessels, pumps, piping, and attachments)
      - Ultrasonic Exams - 15
      - Penetrant Exams - 19
      - Mag Particle Exams - 2

   b. Supports, visual exams - 25

3. Seven (7) visual exams of Class 3 supports were performed and are divided as follows:

   a. Supports, visual exams - 4
   b. Attachments, visual exams - 3

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. Appendix IA identifies limited coverage examinations that require relief requests. Appendix II lists successive examinations that were required during 2R08.

IWE Containment Examination

The BV-1 Containment Liner and associated components (penetrations, welded attachments, bolting) were examined during 2R08 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 blistering paint and rust spots. 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. Also, Class 2 and 3 system functional and system inservice tests were performed on various systems to fulfill the 40-month pressure testing requirement.

Deficiency Resolution

There were no ISI non-destructive examination deficiencies in 2R08.

Steam Generator Tube Examination

One hundred percent of the in-service tubes were examined in the three steam generators. Results of the examinations are contained in Appendix III.

NRC Bulletin 88-09, Flux Thimbles

In accordance with NRC Bulletin No. 88-09, 49 of the 50 available flux thimble tubes were examined using multi-frequency eddy current techniques. Appendix IV contains the results.

NIS-2 Forms

Included as Appendix V 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 CODE EXAMS

BVPS-2 2R08 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: B06.010 B-G-1			
2RCS*REV21-NUT-01	BOLTING	VT00369	
2RCS*REV21-NUT-02	BOLTING	VT00369	
2RCS*REV21-NUT-03	BOLTING	VT00364	
2RCS*REV21-NUT-04	BOLTING	VT00369	
2RCS*REV21-NUT-05	BOLTING	VT00364	
2RCS*REV21-NUT-06	BOLTING	VT00369	
2RCS*REV21-NUT-07	BOLTING	VT00364	
2RCS*REV21-NUT-08	BOLTING	VT00369	
2RCS*REV21-NUT-09	BOLTING	VT00369	
2RCS*REV21-NUT-10	BOLTING	VT00369	
2RCS*REV21-NUT-11	BOLTING	VT00370	
2RCS*REV21-NUT-12	BOLTING	VT00370	
2RCS*REV21-NUT-13	BOLTING	VT00370	
2RCS*REV21-NUT-14	BOLTING	VT00370	
2RCS*REV21-NUT-15	BOLTING	VT00370	
2RCS*REV21-NUT-16	BOLTING	VT00370	
2RCS*REV21-NUT-17	BOLTING	VT00370	
2RCS*REV21-NUT-18	BOLTING	VT00370	
2RCS*REV21-NUT-19	BOLTING	VT00370	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.030 B-G-1			
2RCS*REV21-STUD-01	BOLTING	UT00091	
		MT00118	
2RCS*REV21-STUD-02	BOLTING	UT00090	
		MT00118	
2RCS*REV21-STUD-03	BOLTING	UT00089	
		MT00118	
2RCS*REV21-STUD-04	BOLTING	UT00088	
		MT00118	
2RCS*REV21-STUD-05	BOLTING	UT00087	
		MT00118	
2RCS*REV21-STUD-06	BOLTING	UT00086	
		MT00118	
2RCS*REV21-STUD-07	BOLTING	UT00085	
		MT00118	
2RCS*REV21-STUD-08	BOLTING	UT00084	
		MT00118	
2RCS*REV21-STUD-09	BOLTING	UT00083	
		MT00118	
2RCS*REV21-STUD-10	BOLTING	UT00082	
		MT00118	
2RCS*REV21-STUD-11	BOLTING	UT00081	
		MT00120	
2RCS*REV21-STUD-12	BOLTING	UT00080	
		MT00120	
2RCS*REV21-STUD-13	BOLTING	UT00079	

APPENDIX I CODE EXAMS

BVPS-2 2R08 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
		MT00120	
2RCS*REV21-STUD-14	BOLTING	UT00078	
		MT00120	
2RCS*REV21-STUD-15	BOLTING	UT00077	
		MT00120	
2RCS*REV21-STUD-16	BOLTING	UT00076	
		MT00120	
2RCS*REV21-STUD-17	BOLTING	UT00075	
		MT00120	
2RCS*REV21-STUD-18	BOLTING	UT00074	
		MT00120	
2RCS*REV21-STUD-19	BOLTING	UT00073	
		MT00120	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.050 B-G-1			
2RCS*REV21-WASHER-01	BOLTING	VT00371	
2RCS*REV21-WASHER-02	BOLTING	VT00371	
2RCS*REV21-WASHER-03	BOLTING	VT00364	
2RCS*REV21-WASHER-04	BOLTING	VT00371	
2RCS*REV21-WASHER-05	BOLTING	VT00364	
2RCS*REV21-WASHER-06	BOLTING	VT00371	
2RCS*REV21-WASHER-07	BOLTING	VT00364	
2RCS*REV21-WASHER-08	BOLTING	VT00371	
2RCS*REV21-WASHER-09	BOLTING	VT00371	
2RCS*REV21-WASHER-10	BOLTING	VT00371	
2RCS*REV21-WASHER-11	BOLTING	VT00372	
2RCS*REV21-WASHER-12	BOLTING	VT00372	
2RCS*REV21-WASHER-13	BOLTING	VT00372	
2RCS*REV21-WASHER-14	BOLTING	VT00372	
2RCS*REV21-WASHER-15	BOLTING	VT00372	
2RCS*REV21-WASHER-16	BOLTING	VT00372	
2RCS*REV21-WASHER-17	BOLTING	VT00372	
2RCS*REV21-WASHER-18	BOLTING	VT00372	
2RCS*REV21-WASHER-19	BOLTING	VT00372	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.011 B-J			
2RCS-081-F01	PIPE WELD	UT00071	PT IN 2R07, UT IN 2R08.
2RCS-081-1A	PIPE WELD	UT00072	PT IN 2R07, UT IN 2R08.
** ASME ITEM NUMBER / EXAM CATEGORY: B10.010 B-K			
2RCS*PRE21-WL-1	INTEGRAL ATTACHMENT LUG	PT00055	
** ASME ITEM NUMBER / EXAM CATEGORY: B12.050 B-M-2			
2RCS-RV551-01-0010	VALVE BODY RV - 6"	VT99257	EXAM PERFORMED AT WYLE.
** ASME ITEM NUMBER / EXAM CATEGORY: B13.010 B-N-1			
2RCS*REV21-INT	VESSEL INTERIOR	VT00	

APPENDIX I CODE EXAMS

BVPS-2 2R08 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: C03.010 C-C			
2RHS*E21A-A-1	WELDED ATTACHMENT FOR WS-1	PT00058	
2RSS*E21A-A-2	WELDED ATTCHMENT FOR WS-1	PT00052	
** ASME ITEM NUMBER / EXAM CATEGORY: C03.020 C-C			
2FWS-022-F-801	WELDED ATTACHMENT FOR 2FWS-PSST185	MT00100	
** ASME ITEM NUMBER / EXAM CATEGORY: C03.030 C-C			
2RHS*P21A-A-1	WELDED ATTCHMENT FOR WS-1	PT00056	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.011 C-F-1			
2RHS-6 -12A	BUTT WELD	UT00067	
		PT00050	
2RHS-6 -12B	BUTT WELD	UT00068	
		PT00050	
2RHS-6 -12C	BUTT WELD	UT00069	
		PT00050	
2RHS-6 -12D	BUTT WELD	UT00070	
		PT00050	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.021 C-F-1			
2CHS-72 -1A	BUTT WELD	UT99065	
		PT99056	
2CHS-70 -6A2E	BUTT WELD	UT99064	
		PT99057	
2CHS-72 -5A1C	BUTT WELD	UT00095	
		PT99058	
2CHS-72 -6A1A1B	BUTT WELD	UT99071	
		PT99069	
2SIS-91 -1BB	BUTT WELD	UT99066	
		PT99059	
2SIS-88 -1A1B	BUTT WELD	UT99069	
		PT99064	
2SIS-094-F03	BUTT WELD	UT99070	
		PT99065	
2SIS-088-F14	BUTT WELD	UT00092	
		PT00062	
2SIS-96 -1A	BUTT WELD	UT99067	
		PT99061	
2SIS-94 -11D	BUTT WELD	UT99068	
		PT99062	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.030 C-F-1			
2CHS-124-306-F538	SOCKET WELD	PT99067	
2CHS-095-F01	SOCKET WELD	PT99063	

APPENDIX I CODE EXAMS

BVPS-2 2R08 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: C05.051 C-F-2			
2FWS-22 -2B	BUTT WELD	UT00094	
		MT00101	
** ASME ITEM NUMBER / EXAM CATEGORY: D01.010 D-A			
2RHS*E21A-A-3	WELDED ATTACHMENT FOR WS-3	VT00363	
2RHS*E22A-A-1	WELDED ATTACHMENT FOR WS-1	VT00354	
** ASME ITEM NUMBER / EXAM CATEGORY: D01.020 D-A			
2CCP-332-F-504	WELDED ATTACHMENT FOR 2CCP-PSA033	VT99237	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20A F-A			
2CHS-PSA148	SUPPORT	VT99240	
2CHS-PSA018	SUPPORT	VT99251	
2CHS-PSA290F	SUPPORT	VT99242	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20R F-A			
2CHS-PSR146	SUPPORT	VT99243	
2CHS-PSR147	SUPPORT	VT99240	
2CHS-PSR151	SUPPORT	VT99241	
2CHS-PSR015Y	SUPPORT	VT99251	
2CHS-PSR082R	SUPPORT	VT99250	
2CHS-PSR017Y	SUPPORT	VT99247	
2CHS-PSR318	SUPPORT	VT99244	
2CHS-PSR323	SUPPORT	VT99253	
2CHS-PSR217R	SUPPORT	VT99245	
2RHS-PSR510X	SUPPORT	VT00317	
2SIS-PSR318Y	SUPPORT	VT00316	
2SIS-PSR019	SUPPORT	VT99252	
2SIS-PSR018	SUPPORT	VT99252	
2SIS-PSR057	SUPPORT	VT99238	
2SIS-PSR321S	SUPPORT	VT99239	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20S F-A			
2FWS-PSSH007	SUPPORT	VT99233	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20T F-A			
2MSS-PSST004	SUPPORT	VT00341	
2FWS-PSST185	SUPPORT	VT00341	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.30A F-A			
2CCP-PSA033	SUPPORT	VT99237	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.30R F-A			
2CCP-PSR045Y	SUPPORT	VT99263	
2CCP-PSR302X	SUPPORT	VT99234	

APPENDIX I CODE EXAMS

BVPS-2 2R08 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: F01.40E F-A			
2RHS*E21A-WS-1	FOOT SUPPORT # 1 (4 GUSSET PLATES)	VT00358	
2RHS*E21A-WS-2	FOOT SUPPORT # 2 (4 GUSSET PLATES)	VT00355	
2RHS*P21A-WS-1	PUMP SUPPORT	VT00356	
2RHS*P21A-WS-2	PUMP SUPPORT	VT00356	
2RHS*E21A-WS-3	UPPER SUPPORT RESTRAINT ASSEMBLY	VT00353	
2RCS*REV21-SUP21	NEUTRON SHIELD TANK	VT00303	
2RHS*P21A-WS-3	PUMP SUPPORT	VT00356	

APPENDIX IA

LIMITED CODE EXAMINATIONS

APPENDIX IA LIMITED EXAMS

BVPS-2 2R08 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: C05.011 C-F-1			
2SIS-001-F-501	BUTT WELD	UT00093 PT00054	LIMITED UT (62.85%) COVERAGE.
** ASME ITEM NUMBER / EXAM CATEGORY: C05.021 C-F-1			
2CHS-072-F09	BUTT WELD	UT00097 PT99070	LIMITED UT (85.85%) COVERAGE.
2CHS-124-F416	BUTT WELD	UT99072 PT99066	LIMITED UT, 56% COVERAGE.
2SIS-098-F01	BUTT WELD	UT00096 PT99068	LIMITED UT (85.85%) COVERAGE.

APPENDIX II

SUCCESSIVE EXAMINATIONS

APPENDIX II SUCCESSIVE EXAMS

BVPS-2 2R08 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: F01.10S F-A			
2RCS-PSSH052	SUPPORT	VT99232 VT00347	SUCCESSIVE EXAM.
2RCS-PSSH046	SUPPORT	VT99232	SUCCESSIVE EXAM.

APPENDIX III

STEAM GENERATOR EDDY CURRENT EXAMINATIONS

APPENDIX III

2R08 STEAM GENERATOR EDDY CURRENT EXAMINATION SUMMARY

All examinations/analysis were in compliance with the Beaver Valley Power Station Unit 2 Technical Specifications, NRC Regulatory Guide 1.83, the EPRI PWR Steam Generator Tube Examination Guidelines (Rev. 5) and Life Cycle Management procedure ISIE1-8 (Rev. 6) "Unit #2 Steam Generator Examination Guidelines".

Westinghouse personnel performed primary data acquisition and analysis. An independent review of all data was performed by Zetec, Inc. Oversight of the analysis process was performed by APTECH Engineering. All analysts were required to pass a site specific performance demonstration prior to analyzing eddy current data from the current outage.

100% of the inservice tubes from Rows 3 through 46 in Steam Generators 2RCS-SG21A, -SG21B and -SG21C were examined full length with bobbin coil probes. In-service tubes in Rows 1 and 2 were examined with bobbin coil probes through the upper most tube support plate in each leg. Bobbin coil data acquisition speed was 40 inches per second.

The following table summarizes the results of the bobbin coil probe examinations:

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
NO. OF TUBES EXAMINED	3288	3295	3285
TUBES W/PLUGGABLE INDICATIONS	3	0	0

The U-bend regions of the tubes in Rows 1 and 2 were examined with single coil Plus Point probes. A 20% random sample of the Row 3 U-bend region was also examined with single coil Plus Point probes. Mid-range & high frequency Plus Point probes were used for these low row U-bend examinations. The following table summarizes the results of the U-bend region:

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
NO. OF U-BENDS EXAMINED	217	217	222
TUBES W/PLUGGABLE INDICATIONS	0	2	0

Three coil Plus Point probes were used to examine 100% of the hot leg top of tubesheet region in each steam generator. The following table summarizes the results of the hot leg top of tubesheet examination:

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
NO. OF TUBES EXAMINED	3288	3295	3285
TUBES W/PLUGGABLE INDICATIONS	10	17	6

Three coil Plus Point probes were used to examine 100% of the Distorted Tube Support Plate Signals (DSI's) in each steam generator. The following table summarizes the results of the DSI examination:

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
NO. OF DSI's EXAMINED	79	132	65
TUBES W/PLUGGABLE INDICATIONS	0	1	0

Three coil Plus Point probes were also used to examine the following areas. No pluggable indications were observed.

(a) distorted or ambiguous free span bobbin signals,

(b) 20% of dents & free-span dings $\geq$ 2.00 volts but < 5.00 volts located between the top of the hot leg tubesheet and the third hot leg support plate.

(c) 100% of the dents $\geq$ 5.00 volts, located at tube support plate intersections.

APPENDIX III (cont'd)

2R08 STEAM GENERATOR EDDY CURRENT EXAMINATION SUMMARY

44 tubes were plugged during this outage. The following table summarizes the results of the tube plugging:

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
Tubes previously removed from service prior to 2R08:	88	81	91
Number of tubes removed from service 2R08:	**18**	**20**	**6**
Circumferential Indications @ Hot Leg Tubesheet	7	10	4
Axial Indications @ Hot Leg Tubesheet	2	3	1
*Axial & Circumferential Indications @ Hot Leg Tubesheet	0	1	1
Volumetric Indication @ Hot Leg Tubesheet	1	3	0
Non Quantifiable Indication @ Hot Leg Tubesheet	1	0	0
Volumetric Indication @ Cold Leg Tube End (+16.10")	1	0	0
Volumetric Indications @ TSP 1C (Loose Parts)	4	0	0
Confirmed Distorted Support Plate Indication @ TSP 2H	0	1	0
AVB Wear (AVB 2)	1	0	0
Administratively Plugged (3 tubes) { Row 1/Row 2 U-bend Indications	0	2	0
Administratively Plugged (3 tubes) { Tube Restricted in Row 1 U-Bend Region	1	0	0
Number of tubes removed from service after 2R08	**106**	**101**	**97**

* - These are not Mixed Mode indications. They lie at different elevations axially as well as circumferentially.

In addition to the required examinations, several additional items are noted below:

A) Remote visual examinations of the Westinghouse Plug-in-Plug (PIP) retainers was performed in 2RCS-SG21A (4 hot; 4 cold), 2RCS-SG21B (2 hot; 2 cold) and 2RCS-SG21C (3 hot, 3 cold) generators. No indications were observed.

B) A loose parts screening of the eddy current data was performed on an area 3 rows deep around the periphery in each generator. No loose parts were reported in this area. 4 tubes in 2RCS-SG21A were stabilized/plugged for loose part indications at the 1st cold leg TSP.

C) A sludge pile profile was performed for each generator of the areas commonly known to exhibit sludge. Sludge lancing was performed in 2RCS-SG21A (34 lbs removed), 2RCS-SG21B (43 lbs removed) & 2RCS-SG21C (35 lbs removed).

D) Based on the indications observed during this examination, in-situ pressure testing was not required. However, in light of recent industry events, 2 tubes were tested. No leakage or burst was observed.

E) A 20% sample of Babcock & Wilcox Inconel 690 hot leg rolled plugs were examined with a single coil Plus Point probe. No indications were observed.

APPENDIX IV

FLUX THIMBLE EDDY CURRENT EXAMINATIONS

APPENDIX IV

2R08 FLUX THIMBLE EDDY CURRENT EXAMINATIONS

In accordance with NRC Bulletin No. 88-09: "Thimble Tube Thinning in Westinghouse Reactors", 49 of the 50 available flux thimble tubes were examined to the maximum extent (length) possible employing a .188" diameter bobbin probe and utilizing multiple frequencies selected by First Energy Nuclear Operating Company. One flux thimble (B-7) was not examined due to the location being capped.

The eddy current method utilized during this examination to report the depth (percent through wall - %TW) of wear (thinning) indications assumes the indications have a circumferential extent of approximately 90 degrees. An outside diameter mix (300/140 kHz) was established to reduce the influence from surrounding conductive structures. All indications were reported using this mix or the prime frequency channel based on analyst discretion.

The eddy current data received a second party review to assure all indications of wear were properly addressed and identified.

The table below summarizes the results of the examination:

DEFECT (% TW)	NO. OF TUBES
50% - 59% TW	2
40% - 49% TW	2
30% - 39% TW	9
20% - 29% TW	9
< 20% TW	8
NDD	18
Restricted (#B-10)	1
Out of Service (#B-7)	1

NDD - No Detectable Degradation

Locations B-7 & B-10 remain out of service for Cycle 9

APPENDIX V

REPAIR/REPLACEMENT ABSTRACT
AND
NIS-2 FORMS

NIS-2 ABSTRACT

FORM NO.	MARK NUMBER	WORK ORDER NO.	COMMENTS
1156	2SWS-STRM48	98-074776-000	Repair
1161	2FWE-SOV100B	99-207629-001	Repair
1164	2HVR-ACU207A	99-213400-000	Replacement
1165	2SVS-PCV101C	99-213922-000	Replacement
1166	2SWS-488	99-214073-000	Replacement
"	"	99-076900-002	"
1167	2SWS-486	99-076900-000	Replacement
"	"	99-076900-002	"
1168	2SWS-487	99-076901-000	Replacement
"	"	99-076900-002	"
1176	2SWS-RQI100A	99-211891-003	Repair
1195	2RCS-PCV456	99-216133-000	Replacement
1196	2RCS-PCV455D	99-216134-000	Replacement
"	"	99-216134-016	"
1197	2RCS-RV551B	99-206709-000	Replacement
1198	2MSS-17	99-221039-002	Replacement
"	"	99-221039-004	"
1199	2RCS-50	99-221084-003	Replacement
1203	2SSR-RV134	99-221537-000	Replacement
1204	2RCS-RV551B	99-206709-005	Replacement
1206	2SWS-EJM222C	99-224049-000	Replacement
1207	2SWS-483	99-224273-000	Repair
1295	2CCP-105	99-217019-000	Repair
1317	2FNC-109	00-00109-000	Repair
"	"	00-00109-002	"
1323	2-SWS-004-762-3	DCP-2385	Replacement
"	2-SWS-004-763-3	"	"
"	2-SWS-004-768-3	"	"
"	2-SWS-004-773-3	"	"
1327	2-SWS-004-191-3	00-004301-003	Replacement
1328	2CHS-1	98-074177-000	Replacement
1329	2RCS-50	99-221084-005	Replacement
1330	2RCS-RV551A	99-216603-003	Replacement
1331	2RCS-PCV456	99-218303-000	Replacement
1332	2RCS-PCV455C	99-218301-000	Replacement
1333	2RCS-PCV455D	99-218302-000	Replacement
1334	2SIS-FE982	99-223059-001	Replacement
1335	2SIS-FE985	99-077730-000	Replacement
1338	2EGO-36	00-021517-000	Repair
1339	2EGO-65	00-021519-000	Repair
1340	2SVS-80	99-215388-000	Replacement
1341	2SVS-81	99-215389-000	Replacement
1342	2FWE-42A	99-215390-000	Replacement
1343	2FWE-42B	99-215391-000	Replacement

NIS-2 ABSTRACT

FORM NO.	MARK NUMBER	WORK ORDER NO.	COMMENTS
1344	2FWE-43A	99-213678-000	Replacement
1345	2FWE-43B	99-213712-000	Replacement
1346	2FWE-44A	99-215439-000	Replacement
1347	2FWE-44B	99-215440-000	Replacement
1348	2RSS-E21D	99-218646-002	Replacement
1349	2SWS-716	99-077873-000	Replacement
1351	2CHS-AOV200C	00-023380-000	Replacement
1352	2SWS-79	97-068214-000	Replacement
1353	2RHS-15	99-077735-000	Replacement
1354	2CHS-484	99-223150-000	Replacement
1355	2FWE-99	97-067746-000	Replacement
1356	2FWE-101	97-067747-000	Replacement
1357	2FWS-FCV478	99-215853-000	Replacement
1358	2FWS-FCV488	99-215854-000	Replacement
1359	2FWS-FCV498	99-215855-000	Replacement
1360	2-SWS-003-182-3	00-025561-000	Repair
1362	2RHS-PSSP003	00-021318-000	Replacement
1363	2RHS-PSSP008B	99-218580-000	Replacement
1364	2SIS-PSSP209B	99-218581-000	Replacement
1365	2SIS-PSSP449B	99-218582-000	Replacement
1366	2RCS-PSSP010A	99-218586-000	Replacement
1367	2RCS-PSSP026A	99-218588-000	Replacement
1368	2SWS-PSSP771Y	99-218590-000	Replacement
1369	2SWS-PSSP772B	99-218595-000	Replacement
1370	2RHS-PSSP521X	99-218597-000	Replacement
1371	2RHS-PSSP008A	99-218608-000	Replacement
1372	2SIS-PSSP209A	99-218612-000	Replacement
1373	2SIS-PSSP449A	99-218613-000	Replacement
1375	2RCS-PSSP006A	00-021314-000	Replacement
1376	2CCP-PSSP317A	00-021313-000	Replacement
1377	2MSS-PSSP476	00-021409-000	Replacement
1378	2MSS-PSSP456	00-021408-000	Replacement
1379	2SWS-PSSP770B	00-021748-000	Replacement
1380	2SWS-PSSP832A	00-021324-000	Replacement
1381	2CCP-PSSP317B	00-021744-000	Replacement
1382	2RCS-PSSP022X	00-021746-000	Replacement
1383	2RCS-PSSP030X	00-021909-000	Replacement
1384	2RCS-PSSP894	00-021743-000	Replacement
1385	2MSS-PSSP103	00-021394-000	Replacement
1386	2RCS-SG21A	P.O. 7024829	Repair/Replacement
1387	2RCS-SG21B	P.O. 7024829	Repair/Replacement
1388	2RCS-SG21C	P.O. 7024829	Repair/Replacement

Form No. 1156

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) — Date 03-26-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. 98-074776-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 77 Edition, S'77 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)
Strainer	ZURN Industries	9810	41	2SWS-STRM48	1982	Repaired	Yes

7. Description of Work Weld repaired eroded/corroded areas inside of strainer body.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure ___ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Weld repaired eroded/corroded areas inside of the strainer body to allow cage and bearings to operate properly.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date March 28, 20 00

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 12/30/99 to 4/1/00, 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 Cimock (Inspector's Signature) Commissions NB 7509 (N,I) PA 2162 (National Board, State, Province, and Endorsements)

Date April 1, 20 00

As required by the Provisions of the ASME Code Rules

1. Manufactured by ZurnIndustries,Inc.,FluidHandlingDivision901West12ThSt.,Erie,
(Name and address of Manufacturer)

2. Manufactured for Duquesne Light Company, Shippingport,Beaver County,PA
(Name and address of Purchaser)

3. Type VERT (Horiz. or Vert.) Vessel No. (9810) (Mfrs. Serial) (N/A) (State & State No.) Natl. Bd. No. 41 Year Built 1982

3a. Applicable ASME Code: Section III, Edition 1977, Addenda date Sum'77, Case No. N/A Class 3

4. Shell: Material SA216 GR-WCB (Kind & Spec. No.) T.S. 70,000 (Min. of range specified) Nom. Thk. 7/16 in. Corr. Allow 125 in. Dia. 0 Ft. 9-5/8 in. Length 1 Ft. 7/8 in.

5. Seams: Long N/A H.T.[1] N/A R.T. N/A Efficiency N/A %

Girth N/A H.T.[1] N/A R.T. N/A No. of Courses N/A

6. Heads: (a) Material ~~SA 216~~ GR-WCB T.S. 70,000 (b) Material SA216-GR-WCB T.S. 70,000

Location (a) SA 216 GR. 6/10/83

(Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) TOP	.750	N/A	N/A	N/A	N/A	N/A	10.125	N/A
(b) BOTTOM	.6875	N/A	N/A	N/A	N/A	N/A	8.75	N/A

If removable, bolts used SA193-GRB7* (Material, Spec. No., T.S., Size, Number) Other fastening SA194-GR2H (8), ½-13 NUT (Describe or Attach Sketch)

*T.S.: 125, 000
QTY.: 8 SIZE ½-13

Drop Weight N/A
Charpy impact N/A ft-lb

7. Design Pressure[2] 153 psi at max. temp. 100 °F. at temp. of N/A °F. Hydrostatic / Pneumatic or / Combination Test Press 230 psi.

8. Safety or Relief Valve Outlets: Number N/A Size N/A Location ELSEWHERE IN SYSTEM

9. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
INLET/OUTLET	2	3"	FLANGED	SA216 GR-WCB	.4375	INTEGRAL	CAST
DRAIN/BACKWASH	2	1"	THREADED	SA216 GR-WCB	N/A	INTEGRAL	CAST

10. Inspection Manholes, No. N/A Size N/A Location N/A

Openings: Handholes, No. 1 Size 7" Location TOP HEAD REMOVABLE

Threaded, No. N/A Size N/A Location N/A

11. Supports: Skirt YES (Yes or No) Lugs 0 (Number) Legs N/A (Number) Other N/A (Describe) Attached BOTTOM-BOLTED (Where & How)

12. Remarks: SERVICE WATER SELF-CLEANING STRAINERS, FORM N-2 MANUFACTURERS DA REPORT FOR NUCLEAR PART AND APPURTENANCE SERIAL NUMBER AR132-2 ALSO APPLIES.

(Brief description of purpose of the vessel—State Contents.)

[1] If Postweld Heat-Treated.
[2] List other internal or external pressure with coincident temperature when applicable.

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. ZURN INDUSTRIES, INC.

Date Jan. 27, 1982 Signed FLUID HANDLING DIVISION (Manufacturer) By [signature]

Certificate of Authorization Expires NOVEMBER 8, 1987 Certificate of Authorization No. N-1555

CERTIFICATION OF DESIGN

Design information on file at DUQUESNELIGHTCOMPANY, SHIPPINGPORT, BEAVER COUNTY, PA

Stress analysis report on file at DUQUESNELIGHT COMPANY, SHIPPINGPORT,BEAVER COUNTY,PA

Design specifications certified by FRANK A. GOPALANI Prof. Eng. State PA Reg. No. 21966-E

Stress analysis report certified by IRA H. SCHNALL Prof. Eng. State PA Reg. No. 20034-E

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY ZURNINDUSTRIES,INC.,FLUIDHANDLINGDIVISION ERIE, PA

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 Ga. and employed by H.S.B.&I.I.C. of HARTFORD, CT

have inspected the pressure vessel described in this Manufacturer's Data Report on 1/27 19 82, 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 loss of any kind arising from or connected with this inspection.

Date 1/27 19 82 Commissions NB 4446 - PA 880

[signature] (Inspector's Signature) National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-3 on this data

RTL # A4.414-A

Form No. 1161

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

1. Owner Duquesne Light Company (NAME) — Date 08-23-99

411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. 99-207629-001 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maint. Programs (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Alternate Feedwater (Class 3)

5. (a) Applicable Construction Code Section III 19 80 Edition, S'81 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)
Globe Valve	Target Rock	2	N/A	2FWE-SOV100B	1984	Repaired	Yes

7. Description of Work Re-tack welded valve body to bonnet after disassembly for maintenance.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Tack welded valve bonnet to body following disassembly for maintenance.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date August 24th, 19 99

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 Arkwright Mutual Insurance Co. of Waltham, Massachusetts have inspected the components described in the Owner's Report during the period 5/24/99 to 8/26/99, 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 Cimock (Inspector's Signature) Commissions NB7509 (NI) PA 2162 (National Board, State, Province, and Endorsements)

Date Aug 26, 19 99

* REVISED 6-16-86

FORM NPV-1 N CERTIFICATE HOLDER'S DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Target Rock Corporation 1966E Broadhollow Rd E. Farmingdale, N.Y. 117
(Name and Address of N Certificate Holder)
2. Manufactured for Duquesne Light Company Shippingport, Pennsylvania
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Unit 2 Shippingport, Pennsylvania
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 2 (inch) Outlet Size 2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	83C	1 and 2		83C-004	3		1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. INLET ISOLATION TO CHEMICAL RECIRCULATING PUMP
(Brief description of service for which equipment was designed)

6. Design Conditions * ~~37~~ 150 psi (Pressure) 120 °F (Temperature) or Valve Pressure Class 150 (1)
7. Cold Working Pressure 230 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	ASME SA 182F 316L	Carmel Forge	

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(10/77) This form (E00097) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

W. A. Roland, A.N.I. Title

* REVISED Design Condition (Pressure) 6-13-86

G. Abruzzo, Quality Assurance Mgr. Date

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bonnet			
(d) Other Parts			
Bonnet	ASME SA 479 316	Universal Cyclops	
Disc	ASME SA 564 GR 630 17-4 PH	Universal Cyclops	
Indicator Tube	ASME SA 479 316	Joslyn Stainless Steel	
Seat Insert	ASME SA 479 316L	Carpenter Tech.	

9. Hydrostatic test 350 psi. Disk Differential test pressure 260 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 1980 Addenda Summer 1981 (Date). Code Case No. ——— Date ———

Signed Target Rock Corporation (N Certificate Holder) by R. Rudolph 6/12/84 FOR G. Abruzzo, Mgr. of Quality

Our ASME Certificate of Authorization No. 1947 to use the N symbol expires 12/9/86 (Date).

CERTIFICATION OF DESIGN

Design information on file at Target Rock Corporation

Stress analysis report (Class 1 only) on file at

Design specifications certified by (1) K.P. Pfrimmer, John F. Barkin

PE State CT, PA Reg. No. 9805, 30388-2

Stress analysis certified by (1)

PE State Reg. No.

(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 New York and employed by Commercial Union Ins. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 6/13 19 84, 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 6/13 19 84

Signed [signature] (Inspector)

NEW YORK STATE COMMISSION NO. 2228

Commissions NBBI COMMISSIONED IN Penn., Ohio & Conn. (Nat'l Bd. State, Prov. and No.)

RTL # A4.414-A

Form No. 1164

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

1. Owner Duquesne Light Company (NAME) — Date 08-25-99

411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-213400-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maint. Programs (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Heating & Ventilation (Class 3)

5. (a) Applicable Construction Code Section III 19 74 Edition, W'74 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)
Heat Exchanger	Aerofin	960613	772	2HVR-ACU207A	1996	Repaired	Yes
Bolt	Nova Machine	N/A	N/A	Ht #16174 Ht Code W3Q	1996	Replace-ment	No

7. Description of Work During cleaning activities on heat exchanger, three bolts were replaced.

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

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No. 911.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Sr. Eng. Date August 25th, 19 99
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 Arkwright Mutual Insurance Co. of Waltham, Massachusetts have inspected the components described in the Owner's Report during the period 7/27/99 to 10/25/99, 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 FMIC NB7504 (N,I) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct 25, 19 99

FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS*
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 1

1. Manufactured and certified by: HEROEN CORPORATION, 4621 MURRAY PLACE, LYNCHBURG, VA 24502
   (name and address of N-Certificate Holder)
2. Manufactured for: DUQUESNE LIGHT COMPANY, BEAVER VALLEY STATION, SHIPPINGPORT, PA 15077
   (name and address of Purchaser)
3. Location of installation: DUQUESNE LIGHT COMPANY, BEAVER VALLEY STATION, SHIPPINGPORT, PA 15077
   (name and address)
4. Type: HORIZONTAL (horiz. or vert.) HEAT EXCHANGER (tank, jacketed, heat ex.) 960613 (Cert. Holder's serial no.) --- (CRN) N-R-1006 (drawing no.) 772 (nat'l. bd. no.) 1996 (year built)
5. ASME Code, Section III, Division 1: 1974 (edition) 1974 WINTER (addenda date) 3 (class) -- (Code Case no.)

Items 6–10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell: SA-240,304 (mat'l. spec. no.) 75,000 (tensile strength) 1" (nom. thickness (in.)) .705" (min. design thickness (in.)) 0' - 3.5" (dia. (ft. & in.)) 3' - 2.5" (length (overall) (ft. & in.))
7. Seams: NONE (long.) -- (HT.) -- (RT) -- (eff. %) -- (girth) -- (HT.) -- (RT) -- (no. of courses)
8. Heads: SA-240, 304 (a) mat'l. spec. no.) 75,000 (tensile strength) SA-240, 304 (b) mat'l. spec. no.) 75,000 (tensile strength)

	Location (top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	ENDS	.3125"	FLAT	--	--	--	--	2" X 7"	--
(b)	SIDES	.3125"	FLAT	--	--	--	--	2"X35"	--

If removable, bolts used (72)5/8"-11 X 2¼", SA-193, GR. B8 (mat'l. spec. no., size, quantity) Other fastening — (describe or attach sketch)

9. Jacket closure: _____ (Describe as ogee & weld, bar, etc. If bar, give dimensions, describe or sketch)
10. Design pressure[2] 150 (psi) at max. temp. 120 (°F). Min. pressure-test temp. 70 (°F). Pneu., hydro., or comb. test pressure 225 (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SA-240, 304 (stationary, mat'l. spec. no.) 7" (dia. in. (subject to press.)) 1" (thickness (in.)) BOLTED (attachment (welded, bolted))
    _____ (floating, mat'l. spec. no.) _____ (dia. (in.)) _____ (thickness (in.)) _____ (attachment)
12. Tubes: SA-213, TP-304 (mat'l. spec. no.) .625" (OD (in.)) .049" (thickness (inches or gage)) 147 (no.) STRAIGHT (type (straight or U))

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

13. Shell: _____ (mat'l. spec. no.) _____ (tensile strength) _____ (nom. thickness (in.)) _____ (min. design thickness (in.)) _____ (dia. (ft. & in.)) _____ (length (overall) (ft. & in.))
14. Seams: _____ (long. (welded, dbl., single)) _____ (HT[1] (yes or no)) _____ (RT) _____ (eff. %) _____ (girth) _____ (HT[1]) _____ (RT) _____ (no. of courses)
15. Heads: _____ (a) mat'l. spec. no.) _____ (tensile strength) _____ ((b) mat'l. spec. no.) _____ (tensile strength) _____ ((c) mat'l. spec. no.) _____ (tensile strength)

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a) Top, bottom, ends								
(b) Channel								
(c) Floating								

If removable, bolts used _____ (mat'l. spec. no., size, quantity) Other fastening _____ (describe or attach sketch)

16. Design pressure[2] _____ (psi) at _____ (°F). Min. pressure-test temp. _____ (°F). Pneu., hydro., or comb. test pressure _____ (psi)

[1] Postweld heat treated. [2] List other internal or external pressure with coincident temperature when applicable.

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

(12/88) This form (E00038) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

PAG 6

Certificate Holder's Serial No. 960613

17. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	Quantity	Diameter or Size	Type	How Attached	Mat'l.	Thickness	Reinforcement Material	Location
INLET	1	3" NPS TO	REDUCING	WELDED	SA-182	.150 WB	N/A	END
		2½" NPS			F-304			
OUTLET	1	3" NPS TO	REDUCING	WELDED	SA-182	.150 WB	N/A	END
		2½" NPS			F-304			
VENT DRAIN	1	3/4" NPS	S.S. PLUG	THREADED	SA-182	.375"	N/A	END
					F-304			

18. Supports: Skirt NO (yes or no) Lugs -- (quantity) Legs -- (quantity) Other -- (describe) Attached -- (where & how)

19. Remarks: AEROFIN SO# 960322- 001
MARKS: 2HVR*ACU207 A

**HEADS MACHINED INTEGRAL TO TUBE SHEET

CERTIFICATION OF DESIGN

Design specification certified by FRANCIS W. GARDNER P.E. State PA Reg. no. 036614-E
Design report certified by N/A P.E. State N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N-2814 Expires MARCH 30, 1999
Date 7-16-96 Name AEROFIN CORPORATION (N Certificate Holder) Signed [signature] (authorized representative)

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 VA and employed by *ALLENDALE MUTUAL INSURANCE of NORWOOD, MA have inspected the component described in this Data Report on 7-16-96, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component 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 7-16-96 Signed [signature] (Authorized Inspector) Commissions VA 710, NB 9055 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)
*FACTORY MUTUAL ENGRG ASSOC

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this nuclear vessel conforms to the rules of construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. _____ Expires _____
Date _____ Name _____ (N Certificate Holder) Signed _____ (authorized representative)

CERTIFICATE OF FIELD ASSEMBLY 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 _____ and employed by _____ of _____ have compared the statements in this Data Report with the described component and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me on _____ and that to the best of my knowledge and belief the Certificate Holder has constructed and assembled this component 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 describ in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage o a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

Form No. 1165

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

1. Owner Duquesne Light Company (NAME) — Date 12-08-99

   411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — 99-213922-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maint. Programs (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. *

   Expiration Date *

4. Identification of System Steam Vent (Class 2)

5. (a) Applicable Construction Code Section III 19 80 Edition, S'81 Addenda, --- 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)
Globe Valve	Copes-Vulcan	8320-95453-4-1	2490	2SVS-PCV101C	1984	Repaired	Yes
Plug	"	83-2	N/A	---	"	Replaced	"
"	"	88-1	"	---	1989	Replace-ment	"
Inner Plug	"	83-4	"	---	1984	Replaced	"
"	"	87-5	"	---	1989	Replace-ment	"

7. Description of Work Replaced valve 'trim' (internals).

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure --- psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks NPV-1 and N-2 Code Data Reports attached.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Engineer (Owner or Owner's Designee, Title) Date December 8, 19 99

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 Arkwright Mutual Insurance Co. of Waltham, Massachusetts have inspected the components described in the Owner's Report during the period 7-27-99 to 12-9-99, 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 F.M.I.C NB7509(NI) PA 2162 (National Board, State, Province, and Endorsements)

Date Dec 9, 19 99

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Copes-Vulcan, Martin & Rice Avenues, Lake City, PA 16423
(Name and address of Manufacturer of part)

(b) Manufactured for Duquesne Light Co. Shippingport, PA 15077
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part * Nat'l Bd. No. ----

(a) Constructed According to Drawing No. E-266728 Rev. 0 Drawing Prepared by Copes-Vulcan

(b) Description of Part Inspected Plug for 10" 600# Valve Ass'y per Dwg. E-266209 Rev. 6

(c) Applicable ASME Code: Section III, Edition 1980, Addenda date Summer 1981, Case No. -- Class 2

3. Remarks: Cust. P.O. D037442 CV Job 8721-96036
(Brief description of service for which component was designed)

* Plug Dwg. E-266671 Rev. 1 S/N 88-1 Ref. CV Job 8320-95453

Inner Plug Dwg. C-294080 Rev. 0, S/N 87-5 CV S/N 8721-96036-1-1

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the part Manufacturer. An appurtenance Manufacturer is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 10-11 19 89 Signed Copes-Vulcan (Manufacturer) By Dale May

Certificate of Authorization Expires 8/19/92 Certificate of Authorization No. N-1843

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at N/A

Stress analysis report on file at N/A

Design specifications certified by N/A Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by N/A Prof. Eng. State _____ Reg. No. _____

CERTIFICATE OF SHOP 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 Penna and employed by Protection Mutual Ins.Co.* of Park Ridge, IL have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 11-1 19 89, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part 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 part described in this Manufacturer's Partial 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.

*Factory Mutual Systems

Date 11-1 19 89

Inspector's Signature Commissions National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-2 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

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

1. Manufactured by Copes-Vulcan, Lake City, PA 16423
(Name and Address of N Certificate Holder)
2. Manufactured for Stone & Webster Eng. Corp., Boston, MA
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station Unit #2, Shippingport, PA
(Name and Address)
4. Pump or Valve Valve. Nominal Inlet Size 10 (inch) Outlet Size 10 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe	8320-95453-4-1	---	E-266209 Rev. 4	2	2490	1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

RECEIVED
JUL 0 3 1984
Stone & Webster
Engineering Corporation
Document Review

5. 10" Class 600# E/H Actuated Valve
(Brief description of service for which equipment was designed)
Cust. P.O. 28V-209A Valve I.D. 2SVS*PCV101C

6. Design Conditions 1115 (Pressure) psi 560 (Temperature) °F or Valve Pressure Class --- (1)
7. Cold Working Pressure 1480 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body S/N CV1534	ASME SA 216	Empire	GR-WCB
Bonnet S/N Y1096	ASME SA 216	Quaker	GR-WCB
(b) Forgings			

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Studs Lot NE70	ASME SA 193	Vitco	GR-B7
Nuts Lot X82-1	ASME SA 194	Vitco	GR-2H
(d) Other Parts			
Plug S/N 83-2	ASME SA 182	McInnes	Tp. 304
Inner Plug S/N 83-4	ASME SA 182	McInnes	Tp. 304

9. Hydrostatic test 2225 psi. Disk Differential test pressure 1628 psi. CV S/N 8320-95453-4-1

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. 1, Edition 1980, Addenda Summer 1981 (Date), Code Case No. ---, Date 6-14-84

Signed Copes-Vulcan (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1842 to use the N (N) symbol expires 8/19/86 (Date)

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster Eng. Corp. Boston, MA

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) Louis C. Wilmot

PE State NY Reg. No. 49480

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(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 Penna and employed by Protection Mutual Ins.Co.* of Park Ridge, IL have inspected the pump, or valve, described in this Data Report on June 21 1984, 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 6-21 1984 *Factory Mutual Systems

[signature] (Inspector) Commissions NB8563 Pa.9031 (Nat'l Bd State Prov and No.)

JUL 0 3 1984
Document Review

RTL # A4.414-A

Form No. 1166

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

1. Owner FENOC (NAME) — Date 03-22-00

76 South Main Street- Akron, OH 44308 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. Nos: 99-214073-000, 99-076900-002 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, 1672, 1567 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)
Check Valve	Walworth	D-63951	1323	2SWS-488	1977	Replaced	Yes
Nozzle Check	Enertech	10547	N/A	"	1997	Replace-ment	"

7. Description of Work Added pipe flanges to pipe and replaced check valve with a flanged-in model.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure ___ psi Test Temp. _____ °F

9. Remarks Code Data Reports attached. Added pipe flanges to system per Code Case N-416-1, additional NDE was performed per NRC to BVPS request to use this Code Case. Different style valve was installed per TER-10884.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng (Owner or Owner's Designee, Title) Date March 23, 20 00

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 8/12/99 to 3/23/00, 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 s 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 Cimock (Inspector's Signature) Commissions NB7509(N,I)PA2162 (National Board, State, Province, and Endorsements)

Date March 23, 20 00

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

1. Manufactured and certified by ENERTECH, 2950 Birch Street, Brea, CA 92621
(name and address of N Certificate Holder)

2. Manufactured for Duquesne Light Company, P.O. Box 345, RT 168, Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station, Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type DRV-Z Nozzle Check Drawing ~~PD 98401~~ PD 98400 Rev. B CAN None

5. ASME Code, Section III, Division 1: 1971 (edition) Summer '72 (addenda date) 3 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 3 (in.) Outlet size 3 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
10545	None	JJX-001	None	JFX-004
10546	None	JJX-002	None	JFX-005
10547	None	JJX-003	None	JFX-006

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

Post-it® Fax Note 7671	Date 9/2	# of pages ▶ 2
To BOB MACGEE	From DAVE CORDOVA	
Co./Dept. QUAL. SERVC	Co. ENERTECH	
Phone # (412) 393-5970	Phone # (714) 528-2301x114	
Fax # (412) 393-7315	Fax # (714) 528-6128	

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 10545, 10546 10547

8. Design conditions 150 (pressure) psi 120 (temperature) °F or valve pressure class 150 (1)

9. Cold working pressure 275 psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 275 psi

11. Remarks: QTY: 3, ENERTECH Job Number: 15334V

CERTIFICATION OF DESIGN

Design Specification certified by Alan J. Fiorente P.E. State PA Reg. no. 032366-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/99

Date 9/18/97 Name ENERTECH (N Certificate Holder) Signed [signature] (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 DOSH of California have inspected the pump, or valve, described in this Data Report on 9-18-97, 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 9/18/97 Signed [signature] (Authorized Inspector) Commissions C. 1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

SERIAL NO: D63951
MARK NO: 2SWS-488
TYPE: VCW015-A-3
COMMENTS:

FORM NPV-1 "MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES"
(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Walworth Co., Greensburg Division, Greensburg, Pa. 15601
(Name and Address of Manufacturer)
2. Manufactured for Duquesne Light Co.
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Shippingport, Beaver County, Pa
(Name and Address)
4. Pump or Valve Valve. Nominal Inlet Size 3" (inch) Outlet Size 3"

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	5341 WE BB	D63951	N/A	SK-1952-188	3	1323	1977
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Steam, Water or Oil
(Brief description of service for which equipment was designed)

6. Design Conditions _____ psi (Pressure) _____ °F (Temperature) or Valve Pressure Class ANSI 150 (1)
7. Cold Working Pressure 275 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body 45G Pl	SA-216, WCB	Valve Castings	Seal Welded Seats
Cover F734	SA-216, WCB	Walworth Co.	CoCrA Backseat
Disc G55 Pl	SA-216, WCB	Walworth Co.	CoCrA Faced
(b) Forgings			
Duquesne Light Company			
Beaver Valley Unit No. 2			
P.O. No. 22[illegible]-73, J.O. No. 12241			
Carbon Steel Valves - 2½ in. and Larger			
Category I			
Walworth Company			
Greensburg, PA 15601			

VALVE
D63951
SERIAL NO.

00006

(1) For manufacturer's operating valves only

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form

(1/70) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Stud 225-058K075	SA-193, B7	Daniel Bolt Co.	
Code [illegible]			
Nut D073N	SA-194, 2H	Wm. H. Haskell	
Code GR		Mfg. Co.	
(d) Other Parts			
Plug BM31	SA-105	Bonney Forge Div.	
Duquesne Light Company			
Beaver Valley Unit No. 2			
P.O. No. 2[illegible]-73, J.O. No. 12241			
Carbon Steel Valves - 2½ In. and Larger			
Category I			
~~Walworth Company~~			
~~Greensburg, PA 15601~~			

VALVE

D63951

SERIAL NO.

9. Hydrostatic test 425 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 1971, Addenda June 30, 1972 (Date), Code Case No. 1672. Date 6/28/77

Signed Walworth Co. (Manufacturer) by [signature]

Our ASME Certificate of Authorization No. 950 to use the N (N) (NPV) symbol expires 1/6/78 (Date).

CERTIFICATION OF DESIGN

Design information on file at Walworth Co., Greensburg, Pa. 15601

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) C. O. Richardson, Jr.

PE State PA Reg. No. 016297E

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(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 Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Conn. 06102 have inspected the pump, or valve, described in this Data Report on 6-28- 19 77 and state that to the best of my knowledge and belief, the Manufacturer 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 6-28- 19 77

[signature] (Inspector) Commissions NB4207N (Nat'l Bd., State, Prov. and No.)

00097

Form No. 1167

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

1. Owner FENOC (NAME) — Date 03-23-00

76 South Main Street- Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. Nos: 99-076900-000, 99-076900-002 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, 1672, 1567 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)
Check Valve	Walworth	D-63950	1322	2SWS-486	1977	Replaced	Yes
Nozzle Check	Enertech	10545	N/A	"	1997	Replace-ment	"

7. Description of Work Added pipe flanges to pipe and replaced check valve with a flanged-in model.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure ___ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Added pipe flanges to system per Code Case N-416-1, additional NDE was performed per NRC to BVPS request to use this Code Case. Different style valve was installed per TER-10884. Previous Code Data Reports Nos: 505, 248.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. Date March 23, 20 00
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 8/12/99 to 3/23/00, 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 Commissions NB7509(N.I.) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date March 23, 20 00

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

1. Manufactured and certified by ENERTECH, 2950 Birch Street, Brea, CA 92621
(name and address of N Certificate Holder)

2. Manufactured for Duquesne Light Company, P.O. Box 345, RT 168, Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station, Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type DRV-Z Nozzle Check Drawing ~~PD 98401~~ PD 98400 Rev. 8 CRN None

5. ASME Code, Section III, Division 1: 1971 (edition) Summer '72 (addenda date) 3 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 3 (in.) Outlet size 3 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No
10545	None	JJX-001	None	JFX-004
10546	None	JJX-002	None	JFX-005
10547	None	JJX-003	None	JFX-006

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

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 8/93

Post-it® Fax Note 7671	Date 9/2	# of pages ▶ 2
To BOB MCGEE	From DAVE CORDOVA	
Co./Dept. QUAL. SERVC	Co. ENERTECH	
Phone # (412) 393-5970	Phone # (714) 528-2301 x114	
Fax # (412) 393-7315	Fax # (714) 528-8128	

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 10545, 10546 10547

8. Design conditions 150 (pressure) psi 120 (temperature) °F or valve pressure class 150 (1)

9. Cold working pressure 275 psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 275 psi

11. Remarks: QTY: 3. ENERTECH Job Number: 15334V

CERTIFICATION OF DESIGN

Design Specification certified by Alan J. Fiorente P.E. State PA Reg. no. 032366-E

Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/99

Date 9/18/97 Name ENERTECH (N Certificate Holder) Signed [signature] (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 DOSH of California have inspected the pump, or valve, described in this Data Report on 9-18-97, 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 9/18/97 Signed [signature] (Authorized Inspector) Commissions C. 1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

RTL # A4.414-A

Form No. 1168

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

1. Owner Duquesne Light Company (NAME) — Date 03-23-00

411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. Nos: 99-076901-000, 99-076900-002 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, 1672, 1567 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)
Check Valve	Anchor Darling	E6318-43-4	N/A	2SWS-487	1979	Replaced	Yes
Nozzle Check	Enertech	10546	N/A	"	1997	Replace-ment	"

7. Description of Work Added pipe flanges to pipe and replaced check valve with a flanged-in model.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure ___ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Added pipe flanges to system per Code Case N-416-1, additional NDE was performed per NRC to BVPS request to use this Code Case. Different style valve was installed per TER-10884. Previous Code Data Reports Nos: 858, 403

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date March 23, 20 00

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 8/12/99 to 3/23/00, 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 March 23, 20 00

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

1. Manufactured and certified by ENERTECH, 2950 Birch Street, Brea, CA 92621
(name and address of N Certificate Holder)

2. Manufactured for Duquesne Light Company, P.O. Box 345, RT 168, Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station, Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type DRV-Z Nozzle Check Drawing ~~PD 98400~~ PD 98400 Rev. B CRN None

5. ASME Code, Section III, Division 1: 1971 (edition) Summer '72 (addenda date) 3 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 3 (in.) Outlet size 3 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No
10545	None	JJX-001	None	JFX-004
10546	None	JJX-002	None	JFX-005
10547	None	JJX-003	None	JFX-006

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

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300. REPRINT 6/93

Post-it® Fax Note 7671	Date 9/2	# of pages ▶ 2
To BOB MCGEE	From DAVE CORDOVA	
Co./Dept. QUAL. SERVC	Co. ENERTECH	
Phone # (412) 393-5970	Phone # (714) 528-2301 x114	
Fax # (412) 393-7315	Fax # (714) 528-6128	

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 10545, 10546 10547

8. Design conditions 150 (pressure) psi 120 (temperature) °F or valve pressure class 150 (1)

9. Cold working pressure 275 psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 275 psi

11. Remarks: QTY: 3. ENERTECH Job Number: 15334V

CERTIFICATION OF DESIGN

Design Specification certified by Alan J. Fiorente P.E. State PA Reg. no. 032366-E

Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/99

Date 9/18/97 Name ENERTECH (N Certificate Holder) Signed [signature] (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 DOSH of California have inspected the pump, or valve, described in this Data Report on 9-18-97, 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 9/18/97 Signed [signature] (Authorized Inspector) Commissions C. 1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 1176

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

1. Owner Duquesne Light Company (NAME) — Date 03-26-00

411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. 99-211891-003 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code B31.1 19 80 Edition, --- Addenda, --- 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)
Heat Exchanger	BASCO GA Technologies	171155	N/A	2SWS-RQI100A	----	Repaired	No

7. Description of Work Removed and repaired weld defect.

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

FORM NIS-2 (Back)

9. Remarks No Code Data Report available. Weld repaired linear indication on heat exchanger. Performed both a hydro and system leakage test.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date March 26, 20 00

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 9/10/99 to 4/1/00, 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 Cmoch (Inspector's Signature) Commissions NB 7509 (N, I) PA 2162 (National Board, State, Province, and Endorsements)

Date April 1, 20 00

RTL # A4.414-A

Form No. 1195

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

1. Owner Duquesne Light Company (NAME) — Date 03-23-00

411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. 99-216133-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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 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)
Power Relief Valve	Garrett Pneumatic	P-119	N/A	2RCS-PCV456	1983	Repaired	Yes
Plug	Crosby Valve	N96012-58-0108	"	Ht #40188	1995	Replaced	No
"	"	N96012-65-0126	"	Ht #Y2686-5E	1999	Replace-ment	"

7. Description of Work Replaced plug.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure ___ psi Test Temp. _____ °F

9. Remarks Code Data Report attached. Previous NIS-2 Data Report Nos: 1042, 539, 360, and 090.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date March 31, 20 00

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 Factury Mutual Insurance Co. of Johnston, R.I. have inspected the components described in the Owner's Report during the period 10/14/99 to 4/4/00, 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 4, 20 00

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 Crosby Valve Inc., 43 Kendrick St., Wrentham, MA 02093
(Name and Address of N Certificate Holder)
2. Manufactured for DUQUESNE LIGHT COMPANY
(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 (drawing no.) ASME SA 479 T316 (mat'l. spec. no.) 75,000 (tensile strength) -- (CRN) 1999 (year built)
5. ASME Code, Section III, Division 1: 1977 (edition) SUMMER 1979 (addenda date) 1 (class) -- (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) -- (no.) Revision -- Date --
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) N96012-65-0126	---	(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)	

'0. Design pressure -- psi. Temp. -- ° F Hydro. test pressure 6,125 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

Form N-2 (Back)

Q.C.-392
Sheet 2 of 2

Certificate Holder's Serial Nos. N96012-65-0126

CERTIFICATE OF DESIGN

Design specifications certified by L. IKE 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) Plug conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1877 Expires 30 Sep. 2001

Date 27AUG99 Signed Crosby Valve Inc. by Brett Crosby
(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 * Protection Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on August 27, 19 99 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 8-27, 19 99.

Signed [signature] Commissions MA-1418 'N'
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

* Factory Mutual System

RTL # A4.414-A

Form No. 1196

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

1. Owner Duquesne Light Company (NAME) — Date 03-24-00

411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. 99-216134-000, -016 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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 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)
Power Relief Valve	Garrett Pneumatic	P-122	N/A	2RCS-PCV455D	1983	Repaired	Yes
Plug	Crosby Valve	N96012-41-0065	N/A	N/A	1990	Replaced	No
Plug	Crosby Valve	N96012-65-0124	N/A	N/A	1999	Replace-ment	No

7. Description of Work Replaced plug.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure ___ psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Report Nos: 1044, 801, 554, 362, 221, and 089.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date April 3, 20 00

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 Factury Mutual Insurance Co. of Johnston, R.I. have inspected the components described in the Owner's Report during the period 10/26/99 to 4/5/00, 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 Cimach (Inspector's Signature) Commissions NB7509 (N,I) 2162 (National Board, State, Province, and Endorsements)

Date April 5, 20 00

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 Crosby Valve Inc., 43 Kendrick St., Wrentham, MA 02093
(Name and Address of N Certificate Holder)
2. Manufactured for DUQUESNE LIGHT COMPANY
(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 (drawing no.) SA479 TYPE 316 (mat'l. spec. no.) 75,000 (tensile strength) -- (CRN) 1999 (year built)
5. ASME Code, Section III, Division 1: 1977 (edition) SUMMER 1979 (addenda date) 1 (class) -- (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) -- (no.) Revision -- Date --
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) N96012-65-0124	---	(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 _____ 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

Certificate Holder's Serial Nos. N96012-65-0124

CERTIFICATE OF DESIGN

Design specifications certified by L. IKE EZEKOYE (when applicable) P.E. State PA Reg. no. 18379-E

Design report* certified by _____ (when applicable) P.E. State _____ Reg. no. _____

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-1877 Expires 30 Sep. 2001

Date 18FEB99 Signed Crosby Valve Inc. (NPT Certificate Holder) by Brett A Crosby (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 * Protection Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on February 18, 19 99 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 2-18, 19 99.

Signed [signature] (Authorized Inspector)

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

* Factory Mutual System

RTL # A4.414-A

Form No. 1197

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

1. Owner Duquesne Light Company (NAME) — Date 06-08-2000

   411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-206709-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Reactor Coolant (Class 1)

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 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)
Safety Valve	Crosby	N56963-00-0010	N/A	2RCS-RV551B	1980	Replaced	Yes
Safety Valve	Crosby	N56963-00-009	206	2RCS-RV551B	1976	Replace-ment	Yes
Inlet Stud	Nova Machine	B5 - B12	N/A	Ht #6L9579	1999	Replace-ment	No
Inlet Stud	Nova Machine	B1 – B4	N/A	Ht #JBC	1999	Replace-ment	No

7. Description of Work Replaced valve and twelve inlet studs with spares.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced because of leak-by. Previous NIS-2 Code Data Report Nos: 1157, 847, 686, 247, 054, 045, 015, and 009.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng Date June 12th, 20 00
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, RI have inspected the components described in the Owner's Report during the period 7/26/99 to 6/13/00, 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 Cimock Commissions NB7509(N,I) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date June 13, 20 00

4-28-87 4-28-87 *Corrected Report

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

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

Q.C. 66C

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick Street, Wrentham, Ma. 02093
Name and Address
Assem. No. N-56963 6M.6
Model No. HB-86BP Order No N303157 Contract Date 4-4-73 National Board No. 206

2. Manufactured For Westinghouse Electric Corp., Nuclear Energy Systems, Pittsburgh, Pa. 15230 Order No 566-CCK-178357-BN
Name and Address

3. Owner Duquesne Light Co., Beaver Valley Power Station, Beaver Valley #2
Name and Address

4. Location of Plant Shippingport, Beaver County, Pennsylvania

5. Valve Identification 68V881SB Serial No. N56963-00-0009 Drawing No DSeC-56963 Rev. C

Type Safety
Safety, Safety Relief, Pilot, Power Actuated
Orifice Size 852 inch Pipe Size — inch Inlet 6 inch Outlet 6 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, Case No. ---

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification Including Type or Grade
a. Bar Stock & Forgings		ASTM-A182-71 F316
Body	N90490-33-0046	ASME-SA182 F316
		ASTM-A105 Gr. 2
Bonnet	N90353-38-0080	ASME-SA105 Gr. 2
b.		
Support Rods		ASTM-A182-71 F316
		ASME-SA182 F316
Bonnet	N90556-34-0010	
Disc Holder KS7220-36-0061	N90533-37-0062	ASTM-A637 Gr. 718
	N90350-34-0186	ASTM-A105 Gr. 2
Spring Washers KS6380-39-0082	N90350-34-0186	ASME-SA105 Gr. 2
		ASTM-A193-71 Gr. B6
Adjusting Bolt	N90351-38-0064	ASME-SA193 Gr. B6
		ASTM-A193-71 Gr. B6
Spindle Point KS6381-34-0048	N90354-34-0048	ASME-SA193 Gr. B6
Spindle Ball	N90355-00-8	ASTM-A276-73 Type 440C
Disc Insert	N90349-44-00-8	Haynes Stellite No. 6B

[illegible] add the date [illegible] Attachment Note Sheet [illegible] Original. [illegible]

[illegible] 4-28-87 [illegible]
[illegible] Date [illegible] Factory Mutual ANI

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	NX2761-0103	ASTM-A304 Gr. S18600H
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	N90488-0609 thru 0620	ASTM-A453-70 Gr. 660 ASME-SA-53 Gr. 660
Inlet Stud Nut	N90489-0609 thru 0620	ASTM-A193-71 Gr. B6 ASME-SA193 Gr. B6

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

Date 4-6 19 76 Signed Crosby Valve & Gage Co. By [illegible]
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 4-8 19 76 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 4-8 76 19 [illegible]

[illegible] Commissions [illegible]

RTL # A4.414-A

Form No. 1198

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

1. Owner Duquesne Light Company (NAME) — Date 03-21-00

   411 Seventh Avenue – Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. 99-221039-002, 004 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Main Steam (Class 2)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, 1672 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)
Valve	Walworth Co.	D66543	1801	2MSS-17	1978	Repaired	Yes
Studs	R.E.C.	N/A	N/A	B6508 Code "MC"	"	Replaced	No
"	Nova Machine	"	"	Ht #99694-PPZ	N/A	Replace-ment	"
Nuts	R.E.C.	"	"	B6508 Code "WO"	1978	Replaced	"
"	Nova Machine	"	"	Ht #8077124	N/A	Replace-ment	"

7. Description of Work Weld repaired steam cut on bonnet and replaced studs and nuts.

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 Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date March 21, 20 00

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 10/27/99 to 3/22/00, 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 Cimarch (Inspector's Signature) Commissions NB7509 (N,I) PA2162 (National Board, State, Province, and Endorsements)

Date March 22, 20 00

SERIAL NO: D66543
MARK NO: 2MSS-17
TYPE: VGW060-A-2 2BV-073
COMMENTS:

2N31299-015A

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Walworth Company, Greensburg Plant, Greensburg, PA 15601 (Name and Address of Manufacturer)
2. Manufactured for Duquesne Light Company, Shippingport, PA. (Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Beaver County, Shippingport, PA. (Name and Address)
4. Pump or Valve Valve. Nominal Inlet Size 3" (inch) Outlet Size 3"

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	5232 WE	D66543	N/A	SK-1961-5H	2	1601	1978
(2)							
(3)							
(4)				VALVE			
(5)							
(6)							
(7)				D66543			
(8)							
(9)				SERIAL NO			
(10)							

5. Oil/Steam/Water (Brief description of service for which equipment was designed)

6. Design Conditions _____ psi (Pressure) _____ (Temperature) °F or Valve Pressure Class ANSI 600 (1)
7. Cold Working Pressure 1440 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body - 454E P1	SA216, WCB	Walworth Company	Seal Welded Seats
Bonnet - 677C P3	SA216, WCB	Valve Castings	Seal Welded Seat
Wedge - C23 P4	SA216, WCB	Walworth Company	CoCrA Faced Seats
(b) Forgings			

Duquesne Light Company
Beaver Valley Unit No. 2
P.O. No. 28V-73, I.O. No. 19241
Carbon Steel Valves - 2½ In. and Larger
Category I

Walworth Company
Greensburg, PA 15601

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(1/78) This form (500037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

005

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
[illegible]	SA [illegible]	United Bolt Co.	
Code - [illegible]			
Nut - 36509	SA 194, 2H	R. E. C.	
Code - "W0"			
Nut - 36509	SA 194, 2H	R. E. C.	
Code - "W0"			
(d) Other Parts			
Duquesne Light Company			VALVE
Beaver Valley Unit No. 2			
P.O. No. 23V-73, J. O. No. 12241			D66543
Carbon Steel Valves - 2½ In. and Larger		Category I	
Walworth Company			SERIAL NO.
Greensburg, PA 15601			

9. Hydrostatic test 2175 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 1971, Addenda June 30, 1972 (Date), Code Case No. 1672, Date 8-22-78

Signed Walworth Company (Manufacturer) by J. W. Brincer

Our ASME Certificate of Authorization No. 1951 to use the N (N) (NPV) symbol expires 1279/80 (Date).

CERTIFICATION OF DESIGN

Design information on file at Walworth Company, Greensburg, PA 15601

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) C. O. Richardson, Jr.

PE State Pil Reg. No. 0153972

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(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 Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Conn. 06102 have inspected the pump, or valve, described in this Data Report on 8-22 19 78 and state that to the best of my knowledge and belief, the Manufacturer 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 8-22 19 78

(Inspector)

Commissions NB8153 PA2227

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

RTL # A4.414-A

Form No. 1199

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

1. Owner Duquesne Light Company (NAME) — Date 05-11-2000

   411 Seventh Avenue - Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. 99-221084-003 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By DLCo - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Reactor Coolant (Class 1)

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 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)
Globe Valve	Kerotest	DF4-3	5661	2RCS-50	1975	Repaired	Yes
Accessory Cap	BW/IP	AQJ3-6	N/A	N/A	1989	Replace-ment	No

7. Description of Work Installed an accessory cap onto valve bonnet and seal welded.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure ___ psi Test Temp. _____ °F

9. Remarks Code Data Reports attached. Installed an accessory cap onto the valve bonnet and seal welded to contain leakage from valve diaphragm.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Sr. Eng. (Owner or Owner's Designee, Title) Date May 11th, 20 00

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 10/27/99 to 5/12/00, 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 Cimock (Inspector's Signature) Commissions NB7509 (N,I) PA 2162 (National Board, State, Province, and Endorsements)

Date May 12, 20 00

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Keystone Manufacturing Corp. 2525 Liberty Avenue Pittsburgh, Pa. Order No. [illegible]
(Name & Address of Manufacturer)

2. Manufactured for Westinghouse Electric Corp. P. O. Box 355 Pittsburgh, Pa. Order No. 546-CCF-178252[illegible]
(Name and Address)

3. Owner Duquesne Light Company

4. Location of Plant Beaver Valley No. 2

5. Valve Identification serial #'s DF4-2, DF4-3, DF4-4, DF4-5

(Brief description of service for which equipment was designed)
radioactive WFl fluid

(a) Drawing No. W-D-9957-(1) Rev. D Prepared by H. Dratfinsky
Sh. 1 of 1

(b) National Board No. 5660 thru 5663

6. Design Conditions 2580 (Pressure) psi 650 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1971, Addenda Date Winter 1972, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body UP-9957-1-(1)	SA182 F316	McWilliams Forge	Mat'l. Code DF
Yoke UP-9910-31-(1)	SA105 Gr. II	"	" CX

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 3a and 3b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Item	Material Spec. No.	Manufacturer	Material
(c) Tubing			
(d) Other Parts			
Disc UP-9909-9-(1)	SA479 Type 316	Carpenter	Mat'l. Code JV
Bonnet UP-9909-3-(1)	"	"	" EP

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
Stress analysis report on file at Kerotest Manufacturing Corp.
Design specifications certified by F. Kenneth DeLuge (1) Prof. Eng. State Pa. Reg. No. 12128E
Stress analysis report certified by S. J. Caroleo (1) Prof. Eng. State Pa. Reg. No. 012144E
(1) Signature not required. List name only.

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

Date February 19 19 75 Signed Kerotest (Manufacturer) By S. J. Caroleo S. J. Caroleo

Certificate of Authorization No. 908 expires 10/28/77

CERTIFICATE OF SHOP 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 Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Connecticut have inspected the equipment described in this Data Report on February 19 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 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 February 19 19 75

E. Sewelski (Inspector) Commissions NB4207 (National Board, State, Province 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

1. Manufactured and certified by Kerotest Mfg. Corp., 2525 Liberty Ave., Pgh, Pa 15222 (C146507)
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Company, 301 Grant Street, Pittsburgh, Pa 15279
(name and address of purchaser)

3. Location of installation Beaver Valley, Unit 1, Box 4, Shippingport, Pa 15077
(name and address)

4. Type 9909-17-(1),Rev.C (drawing no.) SA479,316 (mat'l. spec. no.) 75,000 (tensile strength) N/A (CRN) 1989 (year built)

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

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

7. Remarks: PO No. D071333, Item No. 2

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)	AQJ3-6	N/A
(2)	AQJ3-7	N/A
(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 Number 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 2580 psi. Temp. 650 °F. Hydro. test pressure 5400 (when applicable) at temp. °F

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

(12/86)

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

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) 1-1/2" - 2" Seal Cap conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1903 Expires 4/25/89

Date 2/10/89 Name Kerotest Mfg. Corp. (NPT Certificate Holder) Signed Gen Sheridan (authorized representative)

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 Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, CT have inspected these items described in this Data Report on 2-10-89, 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. 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 2-10-89 Signed [illegible] (Authorized Inspector) Commissions PA 20520 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

RTL # A4.414-A

Form No. 1203

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

1. Owner Duquesne Light Company (NAME) — Date 03-20-2000

411 Seventh Avenue- Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 4

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. 99-221537-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Sample System (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, --- 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)
Safety Relief	Dresser Industrial	TG-36571	N/A	2SSR-RV134	1984	Repaired	Yes
Nozzle	"	AAE29	"	N/A	"	Replaced	No
"	"	ACV56	"	Ht #48317	1997	Replace-ment	"
Disc	"	AAJ52	"	N/A	1984	Replaced	"
"	"	ACV75	"	Ht #38846	1997	Replace-ment	"

7. Description of Work Replaced valve disc and nozzle.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Code Data Report #249.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date March 21, 20 00

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 11/2/99 to 3/22/00, 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 Cimock (Inspector's Signature) Commissions NB7509 (N,I) PA2162 (National Board, State, Province, and Endorsements)

Date March 22, 20 00

Industrial Valves | **DRESSER**

Alexandria, Louisiana USA

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

As Required by the Provisions of the ASME Code, Section III, Div. 1
Not to Exceed One Day's Production

1. Manufactured and certified by Dresser Industries, Inc., Dresser Valve & Controls Div. Industrial Valve Operations Intersection Hwy. 167 & 3225 North, Alexandria, LA 71309-1430
(Name and Address of Certificate Holder)
2. Manufactured for Duquesne Light Co. P. O. Box 347 Shippingport, PA 15077-0347
(Name and Address of Purchaser)
3. Location of Installation Duquesne Light Co. Beaver Valley Power Sta. Shippingport, PA 15077
(Name and Address)
4. Type OS418 (Drawing No.) SA182 Gr. F316 (Mat'l. Spec. No.) 75 KSI (Tensile Strength) N/A (CRN) 1997 (Year Built)
5. ASME Code, Section III Division 1:1974 (Edition) Summer 1974 (Addenda) 2 (Class) N/A (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (No.) Revision N/A Date N/A
7. Remarks: None
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	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) ACV56		(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 N/A psi Temp. N/A °F Hydro test pressure 4500 at temp. °F

*Supplemental information in form of lists, sketches or drawings may be used provided, (1) size is 8½ x 11, (2) information in items 2 & 3 on this data report is included on each sheet, (3) sheet is numbered and number of sheets is recorded at top of this form, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

CERTIFICATE OF DESIGN

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

Design report* certified by N/A P.E. N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2434, Expires May 20, 1998

Date 7/11/97 Name See Line 1 (NPT Certificate Holder) Signed (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Vessel Inspector and the state or province of Louisiana and employed by The Hartford Steam Boiler Inspection & Insurance Co., of Hartford, CT, have inspected these items described in this data report on 7/14/97, and state that to the best of my knowledge and believe, 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 7/14/97 Signed (Authorized Inspector) Commissions LA6GH WC2605 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

Industrial Valves | **DRESSER**

Alexandria, Louisiana USA

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

As Required by the Provisions of the ASME Code, Section III, Div. 1
Not to Exceed One Day's Production

1. Manufactured and certified by Dresser Industries, Inc., Dresser Valve & Controls Div. Industrial Valve Operations Intersection Hwy. 167 & 3225 North, Alexandria, LA 71309-1430
   (Name and Address of Certificate Holder)
2. Manufactured for Duquesne Light Co. P. O. Box 347 Shippingport, PA 15077-0347
   (Name and Address of Purchaser)
3. Location of Installation Duquesne Light Co. Beaver Valley Power Sta. Shippingport, PA 15077
   (Name and Address)
4. Type OS418 (Drawing No.) SA479 Type 316 (Mat'l. Spec. No.) 75 KSI (Tensile Strength) N/A (CRN) 1997 (Year Built)
5. ASME Code, Section III Division 1:1974 (Edition) Summer 1974 (Addenda) 2 (Class) N/A (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (No.) Revision N/A Date N/A
7. Remarks: None
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	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) ACV75		(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 N/A psi Temp. N/A °F Hydro test pressure 4500 at temp. °F

*Supplemental information in form of lists, sketches or drawings may be used provided, (1) size is 8½ x 11, (2) information in items 2 & 3 on this data report is included on each sheet, (3) sheet is numbered and number of sheets is recorded at top of the form, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

CERTIFICATE OF DESIGN

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

Design report* certified by N/A P.E. N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2434, Expires May 20, 1998

Date 7/11/97 Name See Line 1 Signed
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Vessel Inspector and the state or province of Louisiana and employed by The Hartford Steam Boiler Inspection & Insurance Co., of Hartford, CT, have inspected these items described in this data report on 7/14/97, and state that to the best of my knowledge and believe, 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 7/14/97 Signed Commissions LAGGF UK 2605
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

MARK NO: 0659-RV-34
TYPE:
COMMENTS:

RRV-657

INDUSTRIAL VALVE OPERATIONS DRESSER

ALEXANDRIA, LOUISIANA 71301

FORM NV-1 N "CERTIFICATE HOLDER'S DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES"
(AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION III, DIV 1)

1. MANUFACTURED BY INDUSTRIAL VALVE OPERATIONS, DRESSER INDUSTRIES INC HIGHWAY 71 NORTH ALEXANDRIA, LA
(NAME AND ADDRESS OF N CERTIFICATE HOLDER)

2. MANUFACTURED FOR Duquesne Light Co., P.O. Box 186 Shippingport, PA 15077
(NAME AND ADDRESS OF PURCHASER OR OWNER)

3. LOCATION OF INSTALLATION Duquesne Light Co., Beaver Valley Pwr.Sta., Unit 2, Snippingport PA 15077
(NAME AND ADDRESS)

4. (CRN) (DRAWING NO.) NC3011 (NATL BRD NO.) N/A (YEAR BUILT) 1984

5. VALVE 1-1/2"1912-30F-1-XMB29-NC3011 (MODEL NO., SERIES NO.) IDENTIFYING NOS TG-36571 (N CERTIFICATE HOLDERS' SERIAL NO.)

TYPE Safety Relief (SAFETY, SAFETY RELIEF PILOT-POWER ACTUATED) CLASS 2

ORIFICE SIZE .674 INCH NOMINAL INLET SIZE 1-1/2 INCH OUTLET SIZE 2 INCH

6. SET PRESSURE (PSIG) 685 RATED TEMPERATURE Saturated °F

STAMPED CAPACITY 12013 SAT STEAM LBS HR 40 OVERPRESSURE BLOWDOWN (PSIG) Fixed

HYDROSTATIC TEST (PSIG) INLET **See Below OUTLET ***See Below
(APPLICABLE TO VALVES FOR CLOSED SYSTEMS ONLY)

7. PRESSURE RETAINING PIECES

	SERIAL NO. OR IDENTIFICATION	MATERIAL SPECIFICATION INCL. TYPE OR GRADE
BODY	AA546	SA216, Gr. WCB
BONNET OR YOKE	AAH91	SA216, Gr. WCB
SUPPORT RODS		
NOZZLE	AAF29	SA182, Gr. F316
DISC	AAJ52	SA479, Type 316
SPRING WASHERS		
ADJUSTING SCREW		
SPINDLE		
SPRING		
BOLTING	Studs NL-28	SA193, Gr. B7
OTHER PIECES		
	Nuts M31592	SA194, Gr. 2H

RECEIVED
SEP 1 2 1984
Stone & Webster Engineering Corporation
Document Review

*SUPPLEMENT SHEETS IN FORM OF LISTS, SKETCHES OR DRAWINGS MAY BE USED PROVIDED (1) SIZE IS 8-1/2 X 11 (2) INFORMATION IN ITEMS 1 2 ON THIS DATA REPORT IS INCLUDED ON EACH SHEET AND (3) EACH SHEET IS NUMBERED AND NUMBER OF SHEETS IS RECORDED AT TOP OF THIS FORM

**Base 450 PSIG
Disc 5515 PSIG
Nozzle 5575 PSIG

***Bonnet 450 PSIG

FORM NO. DA-0071-1278

FORM NV-1 (BACK)

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV I, 1974 EDITION, ADDENDA Summer 1974 (DATE), CODE CASE NO N/A

DATE 9-4-84 SIGNED IVO, Dresser Ind., Inc. (IN CERTIFICATE HOLDER) BY [signature] Principal Quality Assurance Engineer

OUR ASME CERTIFICATE OF AUTHORIZATION NO N-1747 TO USE THE NV (NV) STAMPS EXPIRES May 20, 1986 (DATE)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Plant, Alexandria, La.

STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT

DESIGN SPECIFICATIONS CERTIFIED BY[1] K. Martin Bendiksen

PE STATE Pennsylvania REG NO 27945E

STRESS REPORT CERTIFIED BY[1]

PE STATE REG NO

[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 LOUISIANA AND EMPLOYED BY THE HARTFORD STEAM BOILER I. & I. COMPANY OF HARTFORD, CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 9/5, 1984 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 FOR NUCLEAR POWER PLANT COMPONENTS.

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 9/5, 1984

SIGNED [signature] (INSPECTOR) COMMISSIONS Pennsylvania WC-1776 (NAT'L BD STATE PROV AND NO.)

RECEIVED
SEP 1 0 1984
Stone & Webster
Engineering Corporation
Document Review

FORM NO 84-0871-0776

RTL # A4.414-A

Form No. 1204

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

1. Owner Duquesne Light Company (NAME) — Date 03-20-2000

   411 Seventh Avenue- Pittsburgh, PA 15279 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. 99-206709-005 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By Crosby Valve & Gage Co. (NAME) — Type Code Symbol Stamp Not Applicable

   Wrentham , MA (ADDRESS) — Authorization No. N/A

   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 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)
Safety Valve	Crosby	N-56963-01-0010	N/A	2RCS-RV551B	1980	Repaired	Yes
Disc Insert	"	N90349-01-0293	"	N/A	1988	Replaced	No
"	"	N90349-01-0290	"	"	1988	Replace-ment	"

7. Description of Work Replaced Disc Insert.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure _____ psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Reports Nos: 1157, 847, 686, 247, 054, 045, 015, and 009. Relief Valve was seat leakage and set pressure checked by Wyle Laboratory. A system leakage test will be performed when the spare valve is installed into the system.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date March 22, 20 00

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 12/2/99 to 3/22/00, 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 NB7509(N,I)PA2162 (National Board, State, Province, and Endorsements)

Date March 22, 20 00

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

ACC 2/83
5 of XI

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

Q.C.-44C

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-86-BP Order No N82804 Contract Date 5/24/78 National Board No. --

2. Manufactured For Alabama Power Company, 600 North 18th St. Birmingham, Alabama 35291 Order No. FNP2-765
Name and Address

3. Owner Alabama Power Company, Farley Nuclear Plant #2
Name and Address

4. Location of Plant Columbia, Alabama

5. Valve Identification 1-8010-A 6RV88LSB Serial No. N56963-01-0010 Drawing No. DS-C-56963-1 Rev. 0

Type Safety (Safety, Safety Relief, Pilot, Power Actuated) Orifice Size M_1 inch Pipe Size -- inch Inlet 6 inch Outlet 6 inch

6. Set Pressure (PSIG) 2485 650 F Rated Temperature

Stamped Capacity 344814 lbs/hr sat 3 % Overpressure -- Blowdown (PSIG) 5%

Hydrostatic Test (PSIG) Inlet 4575 Complete Valve 750

7. The material, design, construction and workmanship comply with ASME Code, Section III.

Class 1 Edition 1971, Addenda Date Winter 1972, Case No. 1501 1649

Pressure Containing or Pressure Retaining Components

BECHTEL 412

a. Bar Stock & Forgings	Serial No. Identification	Material Specification Including Type or Grade
Body	N90490-25-0113	ASME SA182 Gr. F316
Bonnet	N90353-48-0134	ASME SA105 Gr. II
b. Bar Stock and Forgings		
Disc Holder K57220-56-0130	N90553-56-0135	ASTM A637-70 Gr. 718 ASME SA637 Gr. 718
Nozzle	N90556-25-0011	ASME SA182 Gr. F316
Disc Insert	N90349-59-0137	Haynes Stellite Alloy #68
Spring Washers K56380-54-0147	N90350-46-0293 N90350-46-0294	ASME SA105 Gr. II
Adjusting Bolt	N90351-33-0004	ASTM A193-70 Gr. B6 ASME SA193 Gr. B6
Spindle Point K56381-54-0156	N90354-56-0139	ASME SA193 Gr. B6
Spindle Ball	N90355-0159	ASTM A276-71 Type 440 C

ROUTING FORM #0009
ASME SECTION XI.
DOCUMENT
ACK 9/24/88

ROUTING FORM #[illegible]

ASME SECTION XI.
DOCUMENT
Rev 12/21/78

ASME SECTION XI.
DOCUMENT

	Serial No. or Identification	Material Specification Including Type or Grade
c. Stems K56380-54-0147	NX2761-015R	ASTM A304-76 Gr. S13860H
d. Bolting		
e. Other Parts such as Pilot Components		
Inlet Stud	N90488	ASME SA453 Gr. 660
Inlet Nut	N90489	ASTM A193-69 Gr. B6 ASME SA193 Gr. B6
Bonnet Stud	100987	ASTM A453-71 Gr. 660 ASME SA453 Gr. 660
Bonnet Nut	89997	ASTM A193-71 Gr. B6 ASME SA193 Gr. B6

Remarks: Retest due to part change of Disc Insert.

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

Date 3/12/ 19 80 Signed Crosby Valve & Gage Co. By [signature]
Manufacturer

Certificate of Authorization No. 1878 expires September 30, 1980

BECHTEL
412

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 3/18 19 80 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 3/18 19 80 Retest [signature] 3/27/80

[signature] Commissions MASS 1266
(Inspector) National Board, State, Province and No.

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

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

QC-392
Form N-2

FORM N-3 N OR NPT 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

Pg 1 of 1

1. Manufactured and certified by Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
(name and address of certificate holder)

2. Manufactured for Duquesne Light Co., Pittsburgh, PA
(name and address of purchaser)

3. Location of installation Beaver Valley Unit 1, Shippingport, PA
(name and address)

4. Type DS-C-56963 (drawing no.) | See Below (part type no.) | 145,000 (tensile strength) | -- (class) | 1988 (year built)

5. ASME Code, Section III 1971 (edition) | Winter 1972 (addenda) | 1 (class) | -- (Code Case no.)

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

7. Remarks Material - Haynes Stellite Alloy No. 6B

8. Nom. thickness (in.) .460 Min. design thickness (in.) .424 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 Number in Numerical Order
(1) N90349-01-0290		(26)	
(2) N90349-01-0291		(27)	
(3) N90349-01-0292		(28)	
(4) N90349-01-0293		(29)	
(5) N90349-01-0294		(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)	

BEST COPY AVAILABLE

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

Form N-2

FORM N-2 (back)

Serial No. N90349-01-0290 thru 0294

CERTIFICATE OF DESIGN

Design specifications certified by F. Kenneth Deluse (print name) P. E. State PA Reg no. 17128-E

Design report* certified by W. D. Greenlaw (print name) P. E. State MA Reg no. 14784

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Disc Inserts conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. N-1877 Expires 9/30/89

Date 2-24-88 Name Crosby Valve & Gage Co. (NPT Certificate Holder) Signed [signature] (Authorized representative)

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 Arkwright Mutual Insurance Company of Norwood, MA. have inspected these items described in this data report on 2-24-88 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. 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 FEB 24 1988 Signed [signature] (Authorized Inspector) Commissions MA-1301 (NB No. and endorsements, state or prov. and No.)

Form No. 1206

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) — Date 03-26-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. 99-224049-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 74 Edition, W'75 Addenda, --- 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)
Expansion Joint Assembly	Senior Flexonics	J-4643	N/A	2SWS-EJM222C	1994	Replaced	Yes
"	"	V-0702	"	"	1999	Replace-ment	"

7. Description of Work Replaced metal expansion joint.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure ___ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Report No: 583.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng Date March 31, 20 00
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 12/1/99 to 4/4/00, 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 Cimock Commissions NB7509(N,I) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date april 4, 20 00

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

Job Number: NE337P

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

1. Manufactured and certified by Senior Flexonics, Inc., Pathway Division, 2400 Longhorn Industrial Drive, New Braunfels, Texas 78130
(name and address of NPT Certificate Holder)
2. Manufactured for Duquesne Light Company, Shippingport, PA
(name and address of purchaser)
3. Location of installation Beaver Valley Station, 200 State Route 3018, Shippingport, PA
(name and address)
4. Type D-54909 Rev.2 (drawing no.) SA-240 Type 304 (mat'l spec. no.) 75 Ksi (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III, Division 1: 1974 (edition) Winter 1975 (addenda date) 3 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
7. Remarks Materials

Drawing P/N	Description	Specification	Mat'l Traceability Code Number (MTCN)
1	Bellows	SA-240 Type 304	TBV675
2	Liner	SA-240 Type 304	TBV675
3	Flange	SA-105	TBX315
4	Flange	SA-105	TBX315
5	Ear	SA-516 Grade 70	TBX308
6	Ear	SA-516 Grade 70	TBX308
7	Cover Clip	SA-36	TBV949
8	Cover Clip	SA-36	TBX076
9	Hex Nut	Carbon Steel	N/A
10	Hex Bolt	Carbon Steel	N/A
11	Cover	A570	TBV725
15	Gasket	Garlock 3000	N/A
16	ASME Nameplate	Stainless Steel	N/A
17	Info Nameplate	Stainless Steel	N/A
18	Shipping Bar	SA-36	N/A

8. Nom. thickness (in.) .060" Min. design thickness (in.) .054" Dia. ID (ft. & in.) 2' – 0" Length overall (ft. & in.) 1' – 8 5/8"
9. When applicable, Certificate Holder's 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) V-0702	N/A	(11)	
(2)		(12)	
(3)		(13)	
(4)		(14)	
(5)		(15)	
(6)		(16)	
(7)		(17)	
(8)		(18)	
(9)		(19)	
(10)		(20)	

10. Design pressure 150 psi. Temp. 120 ° F. Hydro test pressure 230 psi at Ambient at temp ° F.

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

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

Certificate Holder's Serial Nos. V-0702 through N/A

CERTIFICATION OF DESIGN

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

Design report * certified by N/A (when applicable) 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 (these) Expansion Joint Assembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2778 Expires April 16, 2002

Date 11/26/99 Name Senior Flexonics Inc. (NPT Certificate Holder) Signed (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or ~~Province~~ of Texas and employed by Commercial Union Insurance Company of Boston, MA have inspected these items described in this Data Report on 11-26-99, and state 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 11-26-99 Signed (Authorized Nuclear Inspector) Commissions TX 1083 [Nat'l Bd. (incl. endorsements) and state or prov. and no.]

RTL # A4.414-A

Form No. 1207

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) — Date 03-26-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. 99-224273-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Service Water

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, --- 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)
Gate Valve	Walworth	D-69757	1948	2SWS-483	1979	Repaired	Yes

7. Description of Work Weld repair disc in stem engagement area.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure ___ psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Weld restored disc in area that engages the stem.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date March 27, 20 00

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 12/1/99 to 4/1/00, 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 NB7509 (N,I) PA2162 (National Board, State, Province, and Endorsements)

Date April 1, 20 00

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Div. 1 PN 31299-029A

1. Manufactured by Walworth Company, Greensburg Plant, Greensburg, Pa. 15601
(Name and Address of N Certificate Holder)

2. Manufactured for Duquesne Light Company, Shippingport, Pa.
(Name and Address of Purchaser or Owner)

3. Location of Installation Beaver Valley Power Station, Shippingport, Pa.
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 3" (Inches) Outlet Size 3" (Inches)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	5202 WE	D-69757	N/A	SK-1940-27E	3	1940	1979
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

Duquesne Light Company
Beaver Valley Unit No. 2
P. O. No. 28V-73, I.O. No. 12206
Carbon Steel Valves - 2½ in. and Larger
Category I

Walworth Company
Greensburg, PA 15601

5. Oil, Steam, Water
(Brief description of service for which equipment was designed)

6. Design Conditions _____ psi _____ °F (Pressure) (Temperature) or Valve Pressure Class ANSI 150 (1)

7. Cold Working Pressure 275 psi at 100°F. (Pressure)

8. Pressure Retaining Pieces

Part No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body - 52K, P2	SA 216, WCB	Walworth Co.	Seal Welded Seat
Bonnet - 48BW, P14	SA 216, WCB	Walworth Co.	CoCrA Faced Seat
Wedge - 7121, P3	SA 216, WCB	Walworth Co.	CoCrA Faced Seat
(b) Forgings			

VALVE

D69757

SERIAL NO.

(1) For manually operated valves only

* Supplemental sheets in form of lists, sketches or drawings may be used provided: (1) size is 8-1/2" x 11"; (2) information in items 1, 2 and 5 on this Data Report is included on each sheet; and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(10/77) This form (E00371) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Stud - C2160 (SD)	SA 193, B7	B. F. C. Corp.	
Nut - 13754 (CG)	SA 194, 2H	B. F. C. Corp.	
Nut - 207471 (CL)	SA 194, 2H	B. F. C. Corp.	
(d) Other Parts			

VALVE

009757

SERIAL NO.

B. Hydrostatic test 425 psi. Disc Differential test pressure 300 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the 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, Subsection NB, 1971 Addenda June 30, 1972 Date. Code Case No. 1677 Date 12-27-79

Signed Walworth Company (N Certificate Holder) By R. Knopf R. Knopf

Our ASME Certificate of Authorization No. 1951 to use the N stamp expires 12/9/80 Date.

CERTIFICATION OF DESIGN

Design information on file at Walworth Company, Greensburg, Pa. 15601

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

Design specifications certified by (1) W. H. Schlike

PE State Pa. Reg. No. 25027-E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

Duquesne Light Company
Beaver Valley Unit No. 2
P. O. No. 23V-73, J. O. No. 12241
Carbon Steel Valves - 2½ in. and Larger
Category I

Walworth Company
Greensburg, PA 15601

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 Pennsylvania and employed by The Hartford Steam Boiler Inspection & Ins. Co. of Hartford, Conn. 06102 have inspected the pump or valve, described in this Data Report on 12-27 19 79, 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 12-27 19 79

[illegible] Inspector Commissions [illegible]
(Nat'l Bd., State, Prov. and No.)

0831

RTL # A4.414-A

Form No. 1295

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) — Date 06-05-2000

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-217019-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Component Cooling-Primary (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, 1672 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)
Globe Valve	Walworth	D-66240	1593	2CCP-105	1977	Repaired	Yes

7. Description of Work Re-tack welded plug to stem.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F *N/A

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 Repair conforms to the rules of the ASME Code Section XI.
Repair Or Replacement

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng Date June 5th, 20 00
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 3/10/00 to 6/7/00, 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 Cimock Jr. Commissions N67509 (NI) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date June 7, 20 00

SERIAL NO: D66240
MARK NO: 2CCP-105
TYPE: VOW015-A-3
COMMENTS:

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR PRESSURE RELIEF VALVES
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code

1. Manufactured by Walworth Co., Greensburg, Greensburg, Pa.
Name and Address of Manufacturer
2. Manufactured for Duquesne Light Co.
Name and Address of Purchaser or Owner
3. Location of Installation Beaver Valley Power Station, Shippingport, Pa.
Name and Address
4. Pump or Valve Valve Nominal Inlet Size 2 inch Outlet Size

(a) Model No Series No or Type	(b) Manufacturers Serial No	(c) Canadian Registration No	(d) Drawing No	(e) Class	(f) National Board No	(g) Year Built
6275 WEB2	D66240	N/A	SK-P[illegible]	3	1593	1977

5. ~~Duquesne Light Company~~
Beaver Valley Unit No. 2
P.O. No. 28V-73, J.O. No. 12241
Carbon Steel Valves - 2½ In. and Larger
Category I
Walworth Company
Greensburg, PA 15601
Steam, Water - Brief description of service for which equipment was designed

6. Design Conditions _____ (Pressure) psi _____ (Temperature) °F or Valve Pressure Class ANSI 150 (1)
7. Cold Working Pressure 275 psi at 100°F
8. Pressure Retaining Pieces

Mark No	Material Spec. No	Manufacturer	Remarks
(a) Castings			
Body G287 P2	SA-216, WCB	Walworth Co.	Seal Welded Seat
Bonnet G117 P2	SA-216, WCB	Walworth Co.	CoCrA Backseat
Disc F393 P2	SA-216, WCB	Walworth Co.	CoCrA Faced
(b) Forgings			

VALVE
D66240
SERIAL NO

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NP-5 (Back)

Mark No.	Material Spec. No.	Manufacturer	Serial No.
8. Bolting			
Stud B423 Code HA	SA-193, B7	R. E. C. Corp.	
Nut B560 Code HD	SA-194, 2H	R. E. C. Corp.	

Carolina Light Company
Shearon Unit No. 2
P.O. No. 251-73, P.O. No. 12241
Gate Valves - 2½ In. and Larger
Category I

9. Hydrostatic test 1125 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 1971, Addenda June 30, 1972 (Date), Code Case No. 1672. Date 11/9/77

Signed Walworth Co. (Manufacturer) by G. J. M. Hill

Our ASME Certificate of Authorization No. 950 to use the N (N1 NPV) symbol expires 1/6/78 (Date).

CERTIFICATION OF DESIGN

Design information on file at Walworth Co., Greensburg, Pa. 15601

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

Design specifications certified by (1) C. O. Richardson, Jr.

PE State PA Reg. No. 016297E

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

VALVE

D 66240

SERIAL NO.

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 Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Conn. 06102 have inspected the pump or valve described in this Data Report on 11-9-77 and state that to the best of my knowledge and belief, the Manufacturer 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 11-9-77

E. Dendler (Inspector)

Commissions NB 4207 N (Nat'l Bd., State, Prov. and No.)

RTL # A4.414-A

Form No. 1317

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) — Date 06-19-2000

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #00-00109-000, -002 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Fuel Pool Cooling (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 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)
Check Valve	Walworth	A1091	1082	2FNC-109	1978	Repaired	Yes

7. Description of Work Repaired worn areas inside of body and on valve cap.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
   Other ☐ Pressure ___ psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Worn areas in valve were caused by the disc opening to far and chattering. Worn areas were not through wall and did not encroach on minimal wall.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date June 22nd, 20 00

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 4/27/00 to 6/27/00, 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 NB7504(NI) PA 2162 (National Board, State, Province, and Endorsements)

Date June 27, 20 00

SERIAL NO: A1091
MARK NO:
TYPE: 2BV-088
COMMENTS:

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Walworth Company/Aloyco Plant, ~~1400 W. Elizabeth Ave.~~ Linden, New Jersey 07036
(Name and Address of Manufacturer)
2. Manufactured for Duquesne Light Company, Stone & Webster, Agents, Boston, Mass
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Unit 2
(Name and Address)
4. Pump or Valve Swing Check Valve Nominal Inlet Size 6" (inch) Outlet Size 6"

	(a) Model No., Series No. or Type	(b) Manufacturers Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	N376SP	A1091		D-50933	3	1082	1978
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Borated water service
(Brief description of service for which equipment was designed)

6. Design Conditions _____ psi (Pressure) _____ °F (Temperature) or Valve Pressure Class 150# ANSI (1)
7. Cold Working Pressure 275 psi at 100°F
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks Heat #
(a) Castings			
Body	SA-351 CF8	Walworth/Aloyco	3399D
Cover	SA-351 CF8	Walworth/Aloyco	7297E
Disc	SA-351 CF8	Walworth/Aloyco	5575C
(b) Forgings			
N/A			

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(1/78) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks Heat #
(c) Bolting			
Studs	SA-193, Gr. B8	B & G Mfg.	X135T
Nuts	SA-194, Gr. 8	B & G Mfg.	S469
(d) Other Parts			
N/A			

9. Hydrostatic test 425 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 1971, Addenda Winter 1972 (Date), Code Case No. 1672. Date July 15, 1978

Signed Walworth Company/Aloyco Plant (Manufacturer) by F. Truppo, Mgr. Q. A.

Our ASME Certificate of Authorization No. N-2076 to use the N (N) (NPV) symbol expires 4-7-81 (Date).

CERTIFICATION OF DESIGN

Design information on file at Walworth Company/Aloyco Plant

Stress analysis report (Class 1 only) on file at Not required

Design specifications certified by (1) Frank A. Gopalani

PE State Pa. Reg. No. 21966-E

Stress analysis certified by (1) Not required

PE State _____ Reg. No. _____

(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 New Jersey and employed by HSBI&I Co. of Hartford, Ct. have inspected the pump, or valve, described in this Data Report on 7/10 19 78 and state that to the best of my knowledge and belief, the Manufacturer 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 7/10 19 78

(Inspector)

Commissions NB 7169 PA WC 2584

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

Form No. 1323

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) — Date 10-24-00
   76 South Main Street-Akron, OH 44308 (Address) — Sheet 1 of 2
2. Plant Beaver Valley Power Station (Name) — Unit No. 2
   Shippingport, PA 15077 (Address) — DCP-2385 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed By BVPS-Construction (Name) — Type Code Symbol Stamp N/A
   Shippingport, PA 15077 (Address) — Authorization No. N/A
   Expiration Date N/A
4. Identification of System Service Water
5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 72 Addenda, N-416-1 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4" Pipe Cap	N/A	N/A	N/A	Connected to 2-SWS-004-762-3	2000	Replacement	Yes
4" Pipe Cap	N/A	N/A	N/A	Connected to 2-SWS-004-763-3	2000	Replacement	Yes
4" Pipe Cap	N/A	N/A	N/A	Connected to 2-SWS-004-768-3	2000	Replacement	Yes
4" Pipe Cap	N/A	N/A	N/A	Connected to 2-SWS-004-773-3	2000	Replacement	Yes

7. Description of Work Piping modification to Cut and Cap the referenced Service Water System lines.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure psi Test Temp. 55 °F

9. This design change involves replacing the cooling media for Main Steam Valve Room (MSVR) coolers (2HVR*CLC206A & B) from Service Water System (SWS) to Chilled Water System (CDS). Physical changes involved cutting and capping 4" SWS inlet and outlet lines to these coolers and connecting the piping to Chilled Water System (CDS) supply and return headers.

ASME XI is applicable only to the 4" Butt Welded Pipe Cap installed per this design change.

ASME Code Case N-416-1 is being used as an alternative to the required pressure test.

Performed In service Leak test and Visual examination (VT-2) on all welds on these fittings using 1992 ASME XI Code.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp Per NPDAP 8.5 "ASME XI Repair/Replacement Program"

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

Signed Sanjib K. Mukherjee, Senior Engineer (Owner or Owner's Designee, Title) Date 10-24-00

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 8/4/00 to 10/25/00, 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 NB7504(NI) PA2162 (National Board, State, Province, and Endorsements)

Date Oct 25, 2000

Form No. 1327

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) — Date 10-25-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #00-004301-003 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Construction (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 Addenda, See N-5 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)
Piping	Power Piping	N-1411-5296	N/A	2-SWS-004-191-3	1986	Replaced	Yes
Elbow	DuBose National Energy	N/A	N/A	Ht #H676L	1999	Replace-ment	No
Support Lugs	Energy Steel	N/A	N/A	Ht #803Y60940	1997	Replace-ment	No
Pipe	DuBose National Energy	N/A	N/A	Ht #Y4817	1999	Replace-ment	No

7. Description of Work Replaced degraded section of pipe and intergrally attached support.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

9. Remarks NPP-1Code Data Report attached. Replaced elbow and pipe (Power Piping S/N N-1141-5296 on SWS-191-7) and support lugs (item 7 on Iso 101936) per Code Case N-416-1.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed. Lead Engineer Date January 17th, 20 01
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 9/23/00 to 1/17/01, 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 Commissions NB7504 (N,I) PA216 2
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 17, 20 01

RTL # A4.414-A

Form No. 1328

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) — Date 01-04-01

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #98-074177-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Chemical & Volume Control (Class 1)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 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)
Globe Valve	Kerotest	JU1-18	6461	2CHS-1	1977	Replaced	Yes
Globe Valve	BW/IP	95EP0224	N/A	2CHS-1	1995	Replace-ment	Yes

7. Description of Work Replaced valve with spare.

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

FORM NIS-2 (Back)

9. Remarks Code Data Reports attached. Valve was replaced in accordance with Code Case N-416.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng. Date January 4th, 20 01
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 9/24/00 to 1/8/01, 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 Cimino Commissions NB 7509 (N, I) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 8, 20 01

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

1 Manufactured and certified by IM/IP INTERNATIONAL INC. PUMP DIV. LOS ANGELES OPERATIONS 2300 EAST VERNON AVENUE, VERNON CA. 90058
(name and address of N Certificate Holder)

2 Manufactured for DUQUESNE LIGHT CO. BEAVER VALLEY POWER STA. SHIPPINGPORT, PA. 15077
(name and address of Purchaser)

3 Location of installation DUQUESNE LIGHT CO. BEAVER VALLEY POWER ST. SHIPPINGPORT, PA. 15077
(name and address)

4 Model No. Series No. or Type GLOBE Drawing N-D-9909-(1) Rev E CRN N/A

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

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

7 Material Body SA182 TYPE 316 Bonnet SA479 TYPE 316 Disk SA479 TYPE 316 Bolting N/A

(a) Cert Holder's Serial No	(b) Nat'l Board No	(c) Body Serial No	(d) Bonnet Serial No.	(e) Disk Serial No
95EP0224	N/A	E011-1	LL	KJ
95EP0225	N/A	E011-11	LL	KJ

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

FORM NPV-1 (Back — Pg. 2 of 2)

95EP0224

Certificate Holder's Serial No 95EP0225

8. Design conditions 2580. (pressure) psi 650 (temperature) °F or valve pressure class 1500# (1)

9. Cold working pressure 3600 psi at 100°F

10. Hydrostatic test 5400-5450 psi. Disk differential test pressure 3960-4010 psi

11. Remarks: MATERIAL: YOKE SA105 NAME PLATE ATTACHED BY WIRE

CERT HOLDERS SN YOKE SN

95EP0224 306885 SN29

95EP0225 JB

ALL PRESSURE BOUNDARY PARTS ARE AS ORIGINALLY SUPPLIED, EXCEPT ONE YOKE REPLACED.

CERTIFICATION OF DESIGN

Design Specification certified by L. IKE EZEKOYE P.E. State PA Reg. no. 18379-E

Design Report certified by ROBERT G. VISALLI P.E. State PA Reg. no. 19068-E

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-1130 Expires JUNE 10, 1996

Date 3/29/95 Name BW/IP INTERNATIONAL INC (N Certificate Holder) Signed (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by *ARKWRIGHT MUTUAL INS. CO. of NORWOOD, MASS. have inspected the pump, or valve, described in this Data Report on 3/23/95, 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.

*FACTORY MUTUAL ENGINEERING ASSOCIATION

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 3/23/95 Signed (Authorized Inspector) Commissions CA 1864 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Yerotest Manufacturing Corp. 2525 Liberty Avenue Pittsburgh, Pa. Order No. [illegible]
(Name & Address of Manufacturer)

2. Manufactured for Westinghouse Electric Corp. P.O. Box 355 Pittsburgh, Pa. Order No. 946-[illegible]
(Name and Address)

3. Owner Duquesne Light Company

4. Location of Plant Beaver Valley #2

5. Valve Identification serial #'s ADF4-9, ADF4-10, MW1-15, MW1-16, MW1-17, MW1-18, JT1-21, JT2-22, JT2-23, JT2-24, JU1-11, JU1-12, JU1-13, JU1-14, JU1-15, JU1-16, JU1-17, JU1-18, JU1-19, JU1-20, JU1-21, JU1-22, JU1-23, JU1-24, JU1-25 radioactive WF1 fluid
(Brief description of service for which equipment was designed)

(a) Drawing No. W-D-9909-(1) Rev. E Sh. 1 of 2 Prepared by H. Dratfinsky

(b) National Board No. 6444 thru 6468

6. Design Conditions 2580 (Pressure) psi 650 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition 1971, Addenda Date Winter 1972, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body UP-9909-1-(1)	SA182 F316	McWilliams Forge	Mat'l. Code ASME [illegible]
Yoke UP-9910-31-(1)	SA105	"	" "

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 3, 4 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

Item No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Disc UP-9909-9-(1)	SA479 Type 316	Carpenter	[illegible]
Bonnet UP-9909-1-(1)	"	Joslyn	"

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Keratest Manufacturing Corp.
Stress analysis report on file at Keratest Manufacturing Corp.
Design specifications certified by F. Kenneth Deluse (1) Prof. Eng. State Pa Reg. No. [illegible]
Stress analysis report certified by S. J. Caroleo (1) Prof. Eng. State Pa Reg. No. [illegible]
(1) Signature not required. List name only.

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

Date May 16 19 75 Signed Keratest (Manufacturer) By S. J. Caroleo
S. J. Caroleo

Certificate of Authorization No. 908 expires 10/28/77

CERTIFICATE OF SHOP 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 Pennsylvania and employed by The Hartford Steam Boiler of Hartford, Connecticut have inspected the equipment described in this Data Report on May 16 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 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 May 16 19 75

E. Sendak (Inspector) Commission NB 4267 (National Board, State, Province and No.)

RTL # A4.414-A

Form No. 1329

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) — Date 10-25-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-221084-005 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC)

3. Work Performed By BVPS - Construction (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 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)
Globe Valve	Kerotest	DF4-3	5661	2RCS-50	1975	Replaced	Yes
Globe Valve	Kerotest	PS5-5	N/A	2RCS-50	1977	Replace-ment	Yes

7. Description of Work Replaced valve 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. Replaced valve with spare because of previous work done on valve. Replacement was in accordance with Code Case N-416-1. Previous NIS-2 Data Report No. 1199.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Lead Engineer (Owner or Owner's Designee, Title) Date January 15th, 20 01

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 8/24/00 to 1/15/01, 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 escribed 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 Cimock (Inspector's Signature) Commissions NB 7509 (N I) PA 2162 (National Board, State, Province, and Endorsements)

Date _____, 20 ____

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh Pa. NU-64435
(Name and Address of Manufacturer)
2. Manufactured for Tennessee Valley Authority
(Name and Address of Purchaser or Owner)
3. Location of Installation Bellefonte Nuclear Plant, Near Scottsboro, Alabama
(Name and Address)
4. Pump or Valve Valve. Nominal Inlet Size 1½" (inch) Outlet Size 1½"

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Globe	PS5-5	N/A	TVB-D-9957-(1)	I	N/A	1977
(3)	Globe	PS5-6	N/A	TVB-D-9957-(1)	I	N/A	1977
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Isolation and/or control valves
(Brief description of service for which equipment was designed)

6. Design Conditions 2465 (Pressure) psi 650 (Temperature) °F or Valve Pressure Class 1500# (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body UP-9957-1-(1) Z	SA182, F316	McWilliams Forge	Mat'l Code PS
Yoke P-9910-31P-(1)Z	SA105	Forjas de Asua	Mat'l Code PQ

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Disc 9909-9(1)Z	SA479, Type 316	Joslyn	Mat'l Code CM
Bonnet 99093-(1)Z	SA479, Type 316	Joslyn	Mat'l Code 3J

9. Hydrostatic test 5400 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 1974 Addenda Winter 1975 (Date), Code Case No. N/A, Date May 13, 1977

Signed Kerotest (Manufacturer) by J S Yolom

Our ASME Certificate of Authorization No. 908 to use the N (N) (NPV) symbol expires 10-28-77 (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.

Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.

Design specifications certified by (1) I.L. Beltz

PE State Tenn. Reg. No. 9702

Stress analysis certified by (1) R.G. Visalli

PE State Pa. Reg. No. 19068E

(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 Pennsylvania and employed by The Hartford Steam Boiler I&I C of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on May 13 19 77, and state that to the best of my knowledge and belief, the Manufacturer 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 May 13, 19 77

Ray Irelet (Inspector)

Commissions PA. 2052 (Nat'l Bd., State, Prov. and No.)

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Keystone Manufacturing Corp. 2525 Liberty Avenue Pittsburgh, Pa. Order No. NU-40816
(Name & Address of Manufacturer)

2. Manufactured for Westinghouse Electric Corp. P. O. Box 355 Pittsburgh, Pa. Order No. 546-CCP-178252
(Name and Address)

3. Owner Duquesne Light Company

4. Location of Plant Beaver Valley No. 2

5. ~~Pumps~~ Valve Identification serial #'s DF4-2, DF4-3, DF4-4, DF4-5

(Brief description of service for which equipment was designed)
radioactive WFl fluid

(a) Drawing No. W-D-9957-(1) Rev. D Prepared by H. Dratfinsky
Sh. 1 of 1

(b) National Board No. 5660 thru 5663

6. Design Conditions 2580 (Pressure) psi 650 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1971, Addenda Date Winter 1972, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body UP-9957-1-(1)	SA182 F316	McWilliams Forge	Mat'l. Code DF
Yoke UP-9910-31-(1)	SA105 Gr. II	"	" CF

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 3a and 3b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Item No.	Material Spec. No.	Manufacturer	Condition
(c) Bolting			
(d) Other Parts			
Disc UP-9909-9-(1)	SA479 Type 316	Carpenter	Mat'l. Code JV
Bonnet UP-9909-3-(1)	"	"	" EF

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
Stress analysis report on file at Kerotest Manufacturing Corp.
Design specifications certified by F. Kenneth Deluge (1) Prof. Eng. State Pa. Reg. No. 17128E
Stress analysis report certified by S. J. Carolee (1) Prof. Eng. State Pa. Reg. No. 017144E
(1) Signature not required. List name only.

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

Date February 19 19 75 Signed Kerotest (Manufacturer) By S. J. Carolee S. J. Carolee

Certificate of Authorization No. 908 expires 10/28/77

CERTIFICATE OF SHOP 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 Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Connecticut have inspected the equipment described in this Data Report on February 19 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 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 February 19 19 75

E. Sewelski (Inspector) Commissions NB4207 (National Board, State, Province and No.)

RTL # A4.414-A

Form No. 1330

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) — Date 01-10-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-216603-000, -003 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 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)
Safety Valve	Crosby	N56963-00-0008	N/A	2RCS-RV551A	1976	Replaced	Yes
Safety Valve	Crosby	N56963-01-0010	N/A	2RCS-RV551A	1980	Replace-ment	Yes

7. Description of Work Replaced valve with spare.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks NV-1 Data Report attached. Replaced valve with spare for testing purposes. Previous NIS-2 Form Nos:846, 346, 202, 061, 053, and 044.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng Date January 10th, 20 01
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 9/24/00 to 1/15/01, 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 Commissions NB7504(N,I) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 15, 20 01

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

ACK 2/23/86

5 of ~~X~~ 11

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

Q.C.-44C

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. HB-86-BP Order No N82804 Contract Date 5/24/78 National Board No. --

2. Manufactured For Alabama Power Company, 600 North 18th St. Birmingham, Alabama 35291
Name and Address Order No. FNP2-765

3. Owner Alabama Power Company, Farley Nuclear Plant #2
Name and Address

4. Location of Plant Columbia, Alabama

5. Valve Identification 1-8010-A 6RV88LSB Serial No. N56963-01-0010 Drawing No. DS-C-56963-1 Rev. 0

Type Safety (Safety, Safety Relief, Pilot, Power Actuated) Orifice Size M_1 Inch Pipe Size -- Inch Inlet 6 Inch Outlet 6 Inch

6. Set Pressure (PSIG) 2485 650 F Rated Temperature

Stamped Capacity 344814 lbs/hr sat 3 % Overpressure -- Blowdown (PSIG) 5%

Hydrostatic Test (PSIG) Inlet 4575 Complete Valve 750

7. The material, design, construction and workmanship comply with ASME Code, Section III.

Class 1 Edition 1971, Addenda Date Winter 1972, Case No. 1501 / 1649

Pressure Containing or Pressure Retaining Components

BECHTEL 412

a Bar Stock & Forgings	Serial No. Identification	Material Specification Including Type or Grade
Body	N90490-25-0113	ASME SA182 Gr. F316
Bonnet	N90353-48-0134	ASME SA105 Gr. II
b Bar Stock and Forgings		
Disc Holder K57220-56-0130	N90553-56-0135	ASTM A637-70 Gr. 718 ASME SA637 Gr. 718
Nozzle	N90556-25-0011	ASME SA182 Gr. F316
Disc Insert	N90349-59-0137	Haynes Stellite Alloy #6B
Spring Washers K56380-54-0147	N90350-46-0293 N90350-46-0294	ASME SA105 Gr. II
Adjusting Bolt	N90351-33-0004	ASTM A193-70 Gr. B6 ASME SA193 Gr. B6
Spindle Point K56381-54-0156	N90354-56-0159	ASME SA193 Gr. B6
Spindle Ball	N90355-0159	ASTM A276-71 Type 440 C

ROUTING FORM #0009
ASME SECTION XI.
DOCUMENT
ACK 2/24/88

ROUTING FORM #[illegible]

ASME SECTION XI. DOCUMENT

ASME SECTION XI. DOCU[illegible]

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring K56380-54-0147	NX2761-015R	ASTM A304-76 Gr. 51860H
d. Bolting		
e. Other Parts such as Pilot Components		
Inlet Stud	N90488	ASME SA453 Gr. 660
Inlet Nut	N90489	ASTM A193-69 Gr. B6 ASME SA193 Gr. B6
Bonnet Stud	100987	ASTM A453-71 Gr. 660 ASME SA453 Gr. 660
Bonnet Nut	89997	ASTM A193-71 Gr. B6 ASME SA193 Gr. B6

Remarks: Retest due to part change of Disc Insert.

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

Date 3/12 19 80 Signed Crosby Valve & Gage Co. (Manufacturer) By R. A. Casavant

Certificate of Authorization No. 1878 expires September 30, 1980

BECHTEL 412

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 3/18 19 80 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 3/18 19 80 Retest John E. Morri 3/27/80

John E. Morri (Inspector) Commissions MASS 1266 (National Board, State, Province and No.)

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

RTL # A4414-A

Form No. 1332

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) — Date 1-17-01

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 7

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. # 99-218301-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Reactor Coolant (Class 1)

5. (a) Applicable Construction Code III 19 77 Edition, S'79 Addenda, _____ 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)
Power Relief Valve	Garret Pneumatic	P-122	N/A	2RCS-PCV455C	1983	Repaired	Yes
Plug	Crosby Valve	N96012-65-0124	N/A	N/A	1999	Replaced	No
Plug	Anderson Greenwood Crosby	N96012-67-0129	N-1877	N/A	2000	Replacement	Yes

7. Description of Work Replaced valve plug.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code data report attached. Previous NIS-2 Reports 1043, 800, 553, 361, 088.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this conforms to the rules of the ASME Code Section XI. Replacement _____ (Repair Or Replacement)

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Cliff Custer – Principle Engineer (Owner or Owner's Designee, Title) Date 1-17, 20 01

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 9/24/00 to 1/17/01, 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 Cameron (Inspector's Signature) Commissions NB 7504 (N, I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 17, 20 01

Form No. 1334

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) — Date 01-10-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-077729-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Safety Injection (Class 2)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 Addenda, See N-5 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)
Piping	Schneider Power	2-SR-11-03-SIS	N/A	2SIS-FE982	1986	----	Yes
Stud	Nova Machine	N/A	N/A	Ht #524462-RRW	1999	Replace-ment	No
Nut	Nova Machine	N/A	N/A	Ht #43717-HVL	1995	Replace-ment	No
Nut	Nova Machine	N/A	N/A	Ht #35218070	1996	Replace-ment	No

7. Description of Work Replaced flow element flange studs and nuts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

9. Remarks N-5 Code Data Report attached. Studs and Nuts (item 8 on CI-110-143) were replaced due to boric acid leakage from the flange gasket.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program" .

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

Signed [signature] Lead Engineer Date January 15th, 20 01
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 7/24/00 to 1/16/01, 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 Cimock Commissions NB 7509 (N, I) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 16, 20 01

FORM N-5 DATA REPORT FOR INSTALLATION OF SHOP ASSEMBLY OF NUCLEAR POWER PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES 2-SR-11-03-...

As Required by the Provisions of the ASME Code Rules, Section XI, Division 1 Sheet 1 of 3

1. Installed by Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and address of installer of component, component supports or appurtenances)

2. Installed for Duquesne Light Co., One Oxford Centre, 301 Grant Street., Pittsburgh, PA 15279
(Name and address of purchaser or owner)

3. N Certificate Holder having overall responsibility Stone & Webster Engineering Corporation

4. Location of Installation Beaver Valley Power Station Unit #2, Shippingport, PA 15077

5. System Identification 2-SR-11-03-SIS N/A Att. 10 Nat'l Bd. No. N/A Year Installed 1986
(Mfr. Serial No.) (CRN) (Drawing No.)

6. Nuclear Components and Appurtenances Installed in the Field by Welding (List each item and attach copies of N Certificate Holders' Data Reports and NPT Certificate Holders' Partial Data Reports) E787021000

(a) Components, or Appurtenances	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No	(e) National Bd. No.	(f) Year Built
See Attachment (1) "Parts, Components & Appurtenances"					
NO FURTHER ENTRIES					

Piping System Installation

(a) Piping Subassembly	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No.	(e) National Bd. No	(f) Year Built
See Attachment (2) "Shop Fabricated Large Bore Piping Subassemblies Installed"					
See Attachment (3) "Field Modified Large Bore Subassemblies Installed"					
See Attachment (4) "Shop Fabricated Small Bore Subassemblies Installed"					
See Attachment (5) "Field Modified Small Bore Subassemblies Installed"					
NO FURTHER ENTRIES					

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Rept. Load Capac. Data Sheet	(e) Canadian Reg. No.	(f) National Bd. No.	(g) Year Built
Component Supports are non-code, due to code effective date. SEE "Additional Material Excluding Welding Material" for "Component Support Integral Attachment Only."						
NO FURTHER ENTRIES						

Additional Material Excluding Welding Material

(a) Name of Manufacturer	(b) Material Specification	(c) Dimensions
See Attachment(6)"Component Support Integral Attachment Only"		
See Attachment (7) "Additional Material"		
NO FURTHER ENTRIES		

Note: The following shortened company names are used in this report:
SWEC: Stone & Webster Engineering Corp.
SPC: Schneider Power Corp.
HSB I & I CO.: Hartford Steam Boiler Inspection & Insurance Company
PPC: Power Piping Company

7. (a) Installation in Accordance with:

Procedure or Drawing No

See Attachment (8) "Design Drawings & Revisions"
See Attachment (9) "Procedures & Specifications"
NO FURTHER ENTRIES

Prepared by

(b) Description of Installation Performed:
See Attachment (10) "Description Of Installation Performed"
NO FURTHER ENTRIES

(c) Hydrostatic Test ___ psi System Working Pressure ___ psi and Temp ___

* Supplemental sheets in form of lists, sketches, or drawings may be used provided: (1) size is 8-1/2 in. x 11 in., (2) information in items 1 through 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form. SEE SHEET 2 of 31 "CERTIFICATION OF DESIGN..." footnote.

6-81) This form (E00035) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM N-5 (Back)

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on file at Stone & Webster Eng. Corp., Boston, Mass.

Design Report on file at Stone & Webster Eng. Corp., Boston, Mass.

Design specifications certified by (1) A.J. Fiorente PE State Pennsylvania

Reg. No. 032366E

Design Report certified by (1) S.D. Greer PE State Pennsylvania

Reg. No. 35434E

(1) Signature not required. List name only.

SEE ATTACHMENT(11) "System Working & Design, Pressure Temperature & Hydrostatic/ Pneumatic Tests"

Design Conditions of Piping # Pressure psi # Temperature F.

CERTIFICATE OF INSTALLATION COMPLIANCE

We certify that the statements made in this report are correct and that this installation conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, 1971 & * Edition Addenda Date: Winter '72 & * Code Case No. * Class 1 & 2 and was performed in accordance with the documents listed in 7(a), above.

Our ASME Certificate of Authorization No. N-1324-1 to use the NA (N, NA) Symbol expires 3-12-89 (Date)

Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.

Date 11/19/86 Signed Schneider Power Corp. (Certificate Holder) by [signature]

* SEE ATTACHMENT(12) "Later Code Editions & Addendas Invoked And Code Cases Invoked"

CERTIFICATE OF INSTALLATION 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 HSBI & I Co. of Hartford, CT have inspected the installation of the items described in this Data Report on 12-2 1986 and state that, to the best of my knowledge and belief, the Certificate of Authorization Holder has performed this installation in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the installation 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 12/8 1986 Signed [signature] (Inspector) Commissions PA 20520 (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system shall complete the following statement. Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.

We certify the statements made by this report are correct and that the piping system conforms to the rules of construction of the ASME Code Section III, Division 1.

Certificate of Authorization expires 6-18-88 Certificate of Authorization No. N-1513-2

Date 2/9/87 Signed Stone & Webster Engr. (N-Certificate Holder) by [signature]

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 Pennsylvania and employed by HSBI & I Co. of Hartford, Connecticut have inspected the piping described in this Data Report on 2/9 1987 and state that to the best of my knowledge and belief, the Certificate of Authorization Holder has constructed this installation in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer make any warranty, express or implied, concerning the piping 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 2/9 1987

Signed [signature] (Inspector) Commissions PA 20520 (Nat'l Board, State, Province and No.)

Form No. 1335

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) — Date 01-03-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-077730-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Safety Injection (Class 2)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 Addenda, See N-5 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)
Piping	Schneider Power	2-SR-11-03-SIS	N/A	2SIS-FE985	1986	----	Yes
Stud	Nova Machine	N/A	N/A	Ht #524462-RRW	1999	Replace-ment	No
Nut	Nova Machine	N/A	N/A	Ht #43717-HVL	1995	Replace-ment	No

7. Description of Work Replaced flow element flange studs and nuts.

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

FORM NIS-2 (Back)

9. Remarks N-5 Code Data Report attached. Studs and Nuts (item 5 on CI-110-141) were replaced due to boric acid leakage from the flange gasket.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng. (Owner or Owner's Designee, Title) Date January 9th, 20 01

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 9/24/00 to 1/15/01, 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 Cimock (Inspector's Signature) Commissions NB 7504 (N I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 15, 20 01

Safety Injection System(SIS) CORRECTED COPY

FORM N-5 DATA REPORT FOR INSTALLATION OR SHOP ASSEMBLY OF NUCLEAR POWER PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES

2-SR-11-03-SIS

As Required by the Provisions of the ASME Code Rules, Section III, Division 1 Sheet 1 of 31

1. Installed by Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and address of installer of component, component supports or appurtenances)
2. Installed for Duquesne Light Co., One Oxford Centre, 301 Grant Street, Pittsburgh, PA 15279
(Name and address of purchaser or owner)
3. N Certificate Holder having overall responsibility Stone & Webster Engineering Corporation
4. Location of Installation Beaver Valley Power Station Unit #2, Shippingport, PA 15077
5. System Identification 2-SR-11-03-SIS (Mfr. Serial No.) N/A (CRN) Att. 10 (Drawing No.) Nat'l Bd. No. N/A Year Installed 1986
6. Nuclear Components and Appurtenances Installed in the Field by Welding (List each item and attach copies of N Certificate Holders' Data Reports and NPT Certificate Holders' Partial Data Reports) E78708100

(a) Components, or Appurtenances	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No	(e) National Bd. No.	(f) Year Built
See Attachment (1) "Parts, Components & Appurtenances"					
NO FURTHER ENTRIES					

Piping System Installation

(a) Piping Subassembly	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No.	(e) National Bd. No	(f) Year Built
See Attachment (2) "Shop Fabricated Large Bore Piping Subassemblies Installed"					
See Attachment (3) "Field Modified Large Bore Subassemblies Installed"					
See Attachment (4) "Shop Fabricated Small Bore Subassemblies Installed"					
See Attachment (5) "Field Modified Small Bore Subassemblies Installed"					
NO FURTHER ENTRIES					

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Rept. Load Capac. Data Sheet	(e) Canadian Reg. No.	(f) National Bd. No	(g) Year Built
Component Supports are non-code, due to code effective date. SEE "Additional Material Excluding Welding Material" for "Component Support Integral Attachment Only."						
NO FURTHER ENTRIES						

Additional Material Excluding Welding Material

(a) Name of Manufacturer	(b) Material Specification	(c) Dimensions
See Attachment(6)"Component Support Integral Attachment Only"		
See Attachment (7) "Additional Material"		
NO FURTHER ENTRIES		

Note: The following shortened company names are used in this report:
SWEC: Stone & Webster Engineering Corp.
SPC: Schneider Power Corp.
HSB&I CO.: Hartford Steam Boiler Inspection & Insurance Company
PPC: Power Piping Company

7. (a) Installation in Accordance with:

Procedure or Drawing No

See Attachment (8) "Design Drawings & Revisions"
See Attachment (9) "Procedures & Specifications"
NO FURTHER ENTRIES

Prepared by

(b) Description of Installation Performed
See Attachment (10) "Description Of Installation Performed"
NO FURTHER ENTRIES

(c) Hydrostatic Test # psi System Working Pressure # psi and Temp # F

* Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 in. x 11 in., (2) information in items 1 through 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form (SEE SHEET 2 of 31 "CERTIFICATION OF DESIGN..." footnote.

(6/81) This form (E00025) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on file at Stone & Webster Eng. Corp., Boston, Mass.

Design Report on file at Stone & Webster Eng. Corp., Boston, Mass.

Design specifications certified by (1) A.J. Florente PE State Pennsylvania

Reg. No. 032366E

Design Report certified by (1) S.D. Greer PE State Pennsylvania

Reg. No. 35434E

(1) Signature not required. List name only.

Design Conditions of Piping # Pressure psi # Temperature F.

SEE ATTACHMENT(11) "System Working & Design, Pressure Temperature & Hydrostatic/ Pneumatic Tests"

CERTIFICATE OF INSTALLATION COMPLIANCE

We certify that the statements made in this report are correct and that this installation conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, 1971 & * Edition Addenda Date: Winter '72 & * Code Case No. * Class 1 & 2 and was performed in accordance with the documents listed in 7(a), above.

Our ASME Certificate of Authorization No. N-1824-1 to use the NA (N, NA) Symbol expires 3-12-89 (Date)

Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.

Date 11/18/86 Signed Schneider Power Corp. (Certificate Holder) by [signature]

* SEE ATTACHMENT(12) "Later Code Editions & Addendas Invoked and Code Cases Invoked"

CERTIFICATE OF INSTALLATION 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 HSBI & I Co. of Hartford, CT. have inspected the installation of the items described in this Data Report on 12-2 1986 and state that, to the best of my knowledge and belief, the Certificate of Authorization Holder has performed this installation in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concerning the installation 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 12/8 1986. Signed [signature] (Inspector) Commissions PA-3020 (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system shall complete the following statement. Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.

We certify the statements made by this report are correct and that the piping system conforms to the rules of construction of the ASME Code Section III, Division 1.

Certificate of Authorization expires 6-18-88 Certificate of Authorization No. N-1513-2

Date 2/9/87 Signed Stone & Webster Engr. (N-Certificate Holder) by [signature]

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 Pennsylvania and employed by HSBI & I Co. of Hartford, Connecticut have inspected the piping described in this Data Report on 2/9, 19 87 and state that to the best of my knowledge and belief, the Certificate of Authorization Holder has constructed this installation in accordance with the ASME Code for Nuclear Power Plant Components.

By signing this certificate, neither the Inspector nor his employer make any warranty, express or implied, concerning the piping 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 2/9 19 87

Signed [signature] (Inspector) Commissions PA 20520 (Nat'l Board, State, Province and No.)

N-5 DATA REPORT
ATTACHMENT 7

1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of Parts, Components, and Appurtenances)
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15279
3. N CERTIFICATE HOLDER HAVING OVERALL RESPONSIBILITY: Stone & Webster Engineering Corp.
4. LOCATION OF INSTALLATION: Beaver Valley Power Station, Unit-2, Shippingport, PA 15077
5. SYSTEM IDENTIFICATION Safety Injection System(SIS)2-SR-11-03-SIS YEAR INSTALLED 1986
(Mfr. Serial No.)

Continued from Sheet 25

ADDITIONAL MATERIAL

SWEC as the N Certificate Holder accepting overall Code responsibility and subcontracting installation to appropriate NA Certificate Holders retains primary Code responsibility for material purchased by SWEC and provided to installers at Beaver Valley - Unit 2. In satisfying this responsibility, SWEC performs and documents inspections and documentation reviews required to establish Code acceptance of the material. Installers are responsible for verifying SWEC acceptance of the material and for assuring the use of specified, properly identified and undamaged material.

(A) Item No.	(B) Isometric No. & Isometric Item No.	(C) Additional Material Identification Including Dimensions	(D) Material Description Specification, Heat No./Heat Code (See Manuf. Data Package for Manuf. Info.)
121	110-141(ITEM#17)	½" CAP	F.S.S/W 6000# SA182 GR.F316 HT#CTE
122	110-141(ITEM#20)	2" 45° ELBOW	F.S.S/W 6000# SA182 GR.F316 HT#BU
123	110-141(ITEM#5)	7/8" STUD BOLT	SA193 GR.B6 N/A
124	110-141(ITEM#5)	7/8" HEX NUT	SA194 GR.6 N/A
125	110-141(ITEM#14)	½" PIPE	SCH.160 SMLS.SA312 TP316 HT#462888
126	109934(ITEM#3)	3/4" PIPE	SCH.160 SMLS.SA312 TP316 HT#483095
127	109934(ITEM#4)	3/4" 90° ELBOW	6000# F.S.S/W SA182 GR.F316 HT#OM
128	109934(ITEM#8)	3/4" CUPOLET	6000# F.S.S/W SA182 GR.F316 HT#417CX
129	109934(ITEM#11)	3/4" PIPE	SCH.160 SMLS.SA312 TP316 HT#469519
130	109934(ITEM#12)	½" CAP	3000# S/W SA182 F304 HT#CAB

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 4/8/86 Schneider Power Corp. (NA Certificate Holder) Signed [signature]
Date 12/10/86 [signature] (AI Signature) Commission [signature] (Stamp Board, State and No.)
Date 2/2/87 Stone & Webster Eng. Corp. (N Certificate Holder) Signed [signature]
Date 2/9/87 [signature] (AI Signature) Commission [signature] (Stamp Board, State and No.)

RTL # A4.414-A

Form No. 1338

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) — Date 01-02-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #00-021517-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Emergency Diesel Lubricating Oil

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 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)
Plug Valve	Xomox	89080B-5	N/A	2EGO-36	1986	Repair	Yes

7. Description of Work Welded a drain nipple to valve outlet.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure _____ psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks No Code Data Report available. Added a drain nipple per TER-13499. Drain nipple is open to atmosphere therefore no leakage test is required.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng (Owner or Owner's Designee, Title) Date January 02, 20 01

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 9/30/00 to 1/5/01, 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 Cimock (Inspector's Signature) Commissions NB 7509 (N,I) PA2162 (National Board, State, Province, and Endorsements)

Date Jan 5, 20 01

RTL # A4.414-A

Form No. 1339

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) — Date 11-27-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #00-021519-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Emergency Diesel Lubricating Oil

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 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)
Plug Valve	Xomox	89080B-3	N/A	2EGO-65	1986	Repair	Yes

7. Description of Work Welded a drain nipple to valve outlet.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks No Code Data Report available. Added a drain nipple per TER-13499. Drain nipple is open to atmosphere therefore no leakage test is required.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Engineer (Owner or Owner's Designee, Title) Date November 27, 20 00

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 9/28/00 to 11/28/00, 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 Cimock (Inspector's Signature) Commissions NB 7509 (N,I) PA 2162 (National Board, State, Province, and Endorsements)

Date Nov 28, 20 00

RTL # A4.414-A

Form No. 1340

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) — Date 10-25-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-215388-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Steam Vent (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10330	N/A	2SVS-80	1995	Replaced	Yes
Check Valve	Enertech	11026	N/A	2SVS-80	2000	Replace-ment	Yes

7. Description of Work Replaced valve.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-12569. Previous NIS-2 Data Report No.-783.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Engineer Date November 28th, 20 00
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 4/25/00 to 11/28/00, 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 Cimock Commissions NB7509 (N,I) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 28, 20 00

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street, Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing MD20369 Rev. A CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 6 (in.) Outlet size 6 (in.)

7. Material: Body SA105 Bonnet N/A Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11025	N/A	JZT-009	N/A	JZU-001
11026	N/A	JZT-010	N/A	JZU-002

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Certificate Holder's Serial No. 11025 & 11026

8. Design conditions 1100 (pressure) psi 560 (temperature) °F or valve pressure class 600 (1

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty 2, Enertech Job Number: 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E

Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartford Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA 1526 NB 9435N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

RTL # A4.414-A

Form No. 1341

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) — Date 10-25-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-215389-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Steam Vent (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10332	N/A	2SVS-81	1995	Replaced	Yes
Check Valve	Enertech	11025	N/A	2SVS-81	2000	Replace-ment	Yes

7. Description of Work Replaced valve.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-12569. Previous NIS-2 Data Report No.-784.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. Date November 28th, 20 00
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 5/11/00 to 11/29/00, 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 Commissions NB7509(N,I)PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov-29, 20 00

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street, Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing MD20369 Rev. A CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 6 (in.) Outlet size 6 (in.)

7. Material: Body SA105 Bonnet N/A Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11025	N/A	JZT-009	N/A	JZU-001
11026	N/A	JZT-010	N/A	JZU-002

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

Certificate Holder's Serial No. 11025 & 11026

8. Design conditions 1100 (pressure) psi 560 (temperature) °F or valve pressure class 600 (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty 2, Enertech Job Number: 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E

Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartford Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA 1526 NB 9435N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 1342

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) — Date 10-25-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-215390-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Auxilliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10164	N/A	2FWE-42A	1993	Replaced	Yes
Check Valve	Enertech	11018	N/A	2FWE-42A	2000	Replace-ment	Yes
Studs	Nova Machine	N/A	N/A	Ht #69541-RTX	1998	Replace-ment	No

7. Description of Work Replaced valve and inlet/outlet studs.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-11736. Previous NIS-2 Data Report No: 674.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng. Date December 22nd, 20 00
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 10/15/00 to 1/4/01, 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 Cemoch Jr. Commissions NB 7504 (N, I) PA 21C 2
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 4, 20 01

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street; Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing PD99474 Rev. B CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA 105 Bonnet NA Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11017	N/A	JZT-001	N/A	JKT-004
11018	N/A	JZT-002	N/A	JKT-005
11019	N/A	JZT-003	N/A	JKT-006
11020	N/A	JZT-004	N/A	JKT-007
11021	N/A	JZT-005	N/A	JKT-008
11022	N/A	JZT-006	N/A	JKT-009
11023	N/A	JZT-007	N/A	JKT-010
11024	N/A	JZT-008	N/A	JKT-011

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Certificate Holder's Serial No. 11017 thru 11024

8. Design conditions Case 1: 1085 / Case 2: 1400 (pressure) psi 450 / 120 (temperature) °F or valve pressure class 600

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty. 8. Enertech Job Number 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartform Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA1526 NB 9435 N' (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 1343

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) — Date 10-25-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-215391-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Auxilliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10160	N/A	2FWE-42B	1993	Replaced	Yes
Check Valve	Enertech	11022	N/A	2FWE-42B	2000	Replace-ment	Yes
Studs	Nova Machine	N/A	N/A	Ht #84830-PUW	1998	Replace-ment	No

7. Description of Work Replaced valve and inlet/outlet studs.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure ___ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-11736. Previous NIS-2 Data Report No: 675.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng. (Owner or Owner's Designee, Title) Date December 22nd, 20 00

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 10/5/00 to 1/4/01, 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 Cimino (Inspector's Signature) Commissions NB7509 (N,I) PA 2102 (National Board, State, Province, and Endorsements)

Date Jan 4, 20 01

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street; Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing PD99474 Rev. B CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA 105 Bonnet NA Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11017	N/A	JZT-001	N/A	JKT-004
11018	N/A	JZT-002	N/A	JKT-005
11019	N/A	JZT-003	N/A	JKT-006
11020	N/A	JZT-004	N/A	JKT-007
11021	N/A	JZT-005	N/A	JKT-008
11022	N/A	JZT-006	N/A	JKT-009
11023	N/A	JZT-007	N/A	JKT-010
11024	N/A	JZT-008	N/A	JKT-011

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Certificate Holder's Serial No. 11017 thru 11024

8. Design conditions Case 1: 1085 / Case 2: 1400 psi (pressure) 450 / 120 (temperature) °F or valve pressure class 600

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty. 8. Enertech Job Number 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartform Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA1526 NB 9435 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 1344

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) — Date 10-25-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-213678-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Auxilliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10163	N/A	2FWE-43A	1993	Replaced	Yes
Check Valve	Enertech	11024	N/A	2FWE-43A	2000	Replace-ment	Yes
Studs	Nova Machine	N/A	N/A	Ht #84830-PUW	1998	Replace-ment	No
Nuts	Nova Machine	N/A	N/A	Ht #8077124-DJP	1995	Replace-ment	No

7. Description of Work Replaced valve and inlet/outlet studs and nuts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-11736. Previous NIS-2 Data Report No: 676.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng. (Owner or Owner's Designee, Title) Date January 4th, 20 01

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 10/5/00 to 1/5/01, 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 Cimock (Inspector's Signature) Commissions NB7509(WI) PA2102 (National Board, State, Province, and Endorsements)

Date Jan 5, 20 01

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street; Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing PD99474 Rev. B CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA 105 Bonnet NA Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11017	N/A	JZT-001	N/A	JKT-004
11018	N/A	JZT-002	N/A	JKT-005
11019	N/A	JZT-003	N/A	JKT-006
11020	N/A	JZT-004	N/A	JKT-007
11021	N/A	JZT-005	N/A	JKT-008
11022	N/A	JZT-006	N/A	JKT-009
11023	N/A	JZT-007	N/A	JKT-010
11024	N/A	JZT-008	N/A	JKT-011

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

Certificate Holder's Serial No. 11017 thru 11024

8. Design conditions Case 1: 1085 / Case 2: 1400 (pressure) psi 450 / 120 (temperature) °F or valve pressure class 600

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11 Remarks: Qty. 8. Enertech Job Number 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartform Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA1526 NB 9435 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

RTL # A4.414-A

Form No. 1345

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) — Date 10-25-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-213712-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Auxilliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10165	N/A	2FWE-43B	1993	Replaced	Yes
Check Valve	Enertech	11017	N/A	2FWE-43B	2000	Replace-ment	Yes
Studs	Nova Machine	N/A	N/A	Ht #84830-PUW	1998	Replace-ment	No
Nuts	Nova Machine	N/A	N/A	Ht # 8077124-DJP	1995	Replace-ment	No

7. Description of Work Replaced valve and inlet/outlet studs and nuts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure ___ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-11736. Previous NIS-2 Data Report No: 677.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng. Date January 4th, 20 01
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 10/5/00 to 1/8/01, 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 Cemich Commissions NB 7509 (N, I) 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 8, 20 01

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street; Brea, CA 92821 (name and address of N Certificate Holder)
2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077 (name and address of Purchaser)
3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077 (name and address)
4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing PD99474 Rev. B CRN None
5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)
6. Pump or valve Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)
7. Material: Body SA 105 Bonnet NA Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11017	N/A	JZT-001	N/A	JKT-004
11018	N/A	JZT-002	N/A	JKT-005
11019	N/A	JZT-003	N/A	JKT-006
11020	N/A	JZT-004	N/A	JKT-007
11021	N/A	JZT-005	N/A	JKT-008
11022	N/A	JZT-006	N/A	JKT-009
11023	N/A	JZT-007	N/A	JKT-010
11024	N/A	JZT-008	N/A	JKT-011

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Certificate Holder's Serial No. 11017 thru 11024

8. Design conditions Case 1: 1085 / Case 2: 1400 (pressure) psi 450 / 120 (temperature) °F or valve pressure class 600 (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty. 8, Enertech Job Number 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartform Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA 15-26 NB 9435 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 1346

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) — Date 10-25-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-215439-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Auxilliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10162	N/A	2FWE-44A	1993	Replaced	Yes
Check Valve	Enertech	11023	N/A	2FWE-44A	2000	Replace-ment	Yes
Studs	Nova Machine	N/A	N/A	Ht #84830-PUW& #69541-RTX	1998	Replace-ment	No

7. Description of Work Replaced valve and inlet/outlet studs.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-11736. Previous NIS-2 Data Report No: 678.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. Date December 22nd, 20 00
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 10/5/00 to 1/5/01, 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 Cimach Commissions NB 7509 (N,I) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 5, 20 01

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street; Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing PD99474 Rev. B CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA 105 Bonnet NA Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11017	N/A	JZT-001	N/A	JKT-004
11018	N/A	JZT-002	N/A	JKT-005
11019	N/A	JZT-003	N/A	JKT-006
11020	N/A	JZT-004	N/A	JKT-007
11021	N/A	JZT-005	N/A	JKT-008
11022	N/A	JZT-006	N/A	JKT-009
11023	N/A	JZT-007	N/A	JKT-010
11024	N/A	JZT-008	N/A	JKT-011

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

Certificate Holder's Serial No. 11017 thru 11024

8. Design conditions Case 1: 1085 / Case 2: 1400 (pressure) psi 450 / 120 (temperature) °F or valve pressure class 600

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty. 8, Enertech Job Number 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartform Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA1526 NB 9435 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

RTL # A4.414-A

Form No. 1347

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) — Date 10-25-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-215440-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Auxilliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10161	N/A	2FWE-44B	1993	Replaced	Yes
Check Valve	Enertech	11020	N/A	2FWE-44B	2000	Replace-ment	Yes
Studs	Nova Machine	N/A	N/A	Ht #69541-RTX	1998	Replace-ment	No

7. Description of Work Replaced valve and inlet/outlet studs.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-11736. Previous NIS-2 Data Report No: 679.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date December 22nd, 20 00

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 10/5/00 to 1/4/01, 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 Cimarelli (Inspector's Signature) Commissions NB 7504 (N, I) PA 2102 (National Board, State, Province, and Endorsements)

Date Jan 4, 20 01

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street; Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing PD99474 Rev. B CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA 105 Bonnet NA Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11017	N/A	JZT-001	N/A	JKT-004
11018	N/A	JZT-002	N/A	JKT-005
11019	N/A	JZT-003	N/A	JKT-006
11020	N/A	JZT-004	N/A	JKT-007
11021	N/A	JZT-005	N/A	JKT-008
11022	N/A	JZT-006	N/A	JKT-009
11023	N/A	JZT-007	N/A	JKT-010
11024	N/A	JZT-008	N/A	JKT-011

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Certificate Holder's Serial No. 11017 thru 11024

8. Design conditions Case 1: 1085 / Case 2: 1400 psi (pressure) 450 / 120 (temperature) °F or valve pressure class 600

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty. 8. Enertech Job Number 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E

Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartform Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA-1526 NB 9435 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

RTL # A4 414-A

Form No. 1348

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) — Date 1-16-01

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-218646-002 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Recirculation Spray (Class 2)

5. (a) Applicable Construction Code III 19 71 Edition, S72A Addenda, _____ 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)
Heat Exchanger	Joseph Oat Corp.	2189-D	893	2RSS-E21D	1976	Repaired	YES
Nuts	Nova Machine	N/A	N/A	HT 36543	2000	Replace-ments	No
Nuts	Nova Machine	N/A	N/A	HT 43717	2000	Replace-ments	No
Nuts	Nova Machine	N/A	N/A	HT 49184	2000	Replace-ments	No
Studs	Nova Machine	N/A	N/A	HT 524462	2000	Replace-ments	No

7. Description of Work Replaced six studs and 12 nuts

8. * Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure N/A* psi Test Temp. N/A* °F

FORM NIS-2 (Back

9. Remarks Previous NIS-2 reports 573 and 328.

* Per interpretation XI-1-95-52 – No pressure test was performed.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Cliff Custer – Principle Engineer Date 1-17 ,20 01
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 9/28/00 to 1/17/01, 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 Amoch Commissions NB 750 (N I) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 17, 20 01

Form No. 1349

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) — Date 01-08-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-077873-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 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)
Valve	Walworth	D-63717	1091	2SWS-716	1977	---	Yes
Disc	Crane-Aloyco	A5727	N/A	Ht #B1240	1987	Replace-ment	Yes

7. Description of Work Replaced valve disc.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Disc was replaced due to leak-by.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Lead Engineer Date January 15th, 20 01
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 10/2/00 to 1/16/01, 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 Cimock Commissions NB7509(NI) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 16, 20 01

FORM N-2 N OR NPT 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 CRANE-ALOYCO, INC. 12 E. DEVONWOOD ROMEOVILLE, IL 60441
(name and address of certificate holder)

2. Manufactured for DUQUESNE LIGHT CO. 301 GRANT ST. PITTSBURGH, PA 15279
(name and address of purchaser)

3. Location of installation BEAVER VALLEY PWR STA #1 SHIPPINGPORT, PA 15077
(name and address)

4. Type B-7512-190S4-L (drawing no.) SA216 - WCB (mat'l. spec. no.) 70,000 MIN (tensile strength) N/A (CRN) 1987 (year built)

5. ASME Code, Section III: 1971 (edition) SUMMER 1972 (addenda) 3 (class) N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (No.) Revision N/A Date N/A
CAI SO N00082 (006) CUST. PO D-023505

7. Remarks: ONE (1) PIECE WEDGE - P/N 0656935 CUST. ID 961017 FOR: 4" 5202WE 150# GATE VALVE

ASSY DWG: SK-1940-27H

MFG: AMERICAN FOUNDRY BIXBY, OKLAHOMA HEAT B-1240 TL: SLHO-1

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	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) A5727	N/A	(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 N/A psi Temp. N/A °F. Hydro. test pressure N/A (when applicable) at temp. °F.

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ X 1, (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.

(size)

This form (F00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

FORM N-2 (back)

Mfr. Serial No. A5727

CERTIFICATE OF DESIGN

Design specifications certified by ALAN J. FIORENTE (when applicable) P. E. state PA Reg. no. 032366-E

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) PART conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. N-2077 Expires APRIL 7, 1990

Date 11-28-87 Name CRANE-ALOYCO, INC. (NPT Certificate Holder) Signed D. Pauquet (authorized representative)

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 ILLINOIS and employed by LUMBERMENS MUTUAL CASUALTY COMPANY of LONG GROVE, IL have inspected these items described in this data report on NOV. 28, 1987 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. 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 11-28-1987 Signed [illegible] (authorized inspector) Commissions 1CL1005 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

PN-31299-D2T

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Walworth Co., Greensburg Division, Greensburg, Pa. 15601
(Name and Address of Manufacturer)
2. Manufactured for Duquesne Light Co., Shippingport, Pa.
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Shippingport, Beaver County, Pa.
(Name and Address)
4. Pump or Valve Valve. Nominal Inlet Size 4" (inch) Outlet Size 4"

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	5202 WE BB	D-63717	N/A	SK-1940-27E	3	1091	1977
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Water, Gas, or Oil
(Brief description of service for which equipment was designed)

6. Design Conditions _____ (Pressure) psi _____ (Temperature) °F or Valve Pressure Class ANSI 150 (1)
7. Cold Working Pressure 275 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body 336C P3	SA-216, WCB	Valve Castings	Seal Welded Seats
Bonnet 949E P9	SA-216, WCB	Valve Castings	Co Cr A Backseat
Wedge E61 P13	SA-216, WCB	Walworth Co.	Co Cr A Faced
(b) Forgings			

Duquesne Light Company
Beaver Valley Unit No. 2
P. O. No. 26V-73, J. O. No. 12241
Carbon Steel Valves - 2½ In. and Larger
Category I

Walworth Company
Greensburg, PA 15601

VALVE
D63717
SERIAL NO.

GGJ05

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(1/76) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Stud 34131	SA193, B7	R. E. C. Corp.	
Code [illegible]			
Nut [illegible]	SA194, 2H	Wm. H. Haskell	
Code [illegible]		Mfg. Co.	
Nut 22341	SA194, 2H	Wm. H. Haskell	
Code "CH"		Mfg. Co.	
(d) Other Parts			
		Duquesne Light Company	
		Beaver Valley Unit No. 2	
		P.O. No. 28V-73, J.O. No. 12241	
		Carbon Steel Valves - 2½ in. and Larger	
		Category I	
		Walworth Company	
		Greensburg, PA 15601	

9. Hydrostatic test 425 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 1971 Addenda June 30, 1972 (Date), Code Case No. 1672. Date 1/20/77

Signed Walworth Co. (Manufacturer) by G. J. M. Hill

Our ASME Certificate of Authorization No. 950 to use the N (N) (NPV) symbol expires 1/6/78 (Date)

CERTIFICATION OF DESIGN

Design information on file at Walworth Co., Greensburg, Pa. 15601

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) C. O. Richardson, Jr.

PE State PA Reg. No. 016297-E

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

VALVE

D63717

SERIAL NO.

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 Pennsylvania and employed by The Hartford Steam Boiler I&I C of Hartford, Conn. 06102 have inspected the pump, or valve, described in this Data Report on 1-20- 19 77 and state that to the best of my knowledge and belief, the Manufacturer 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 1-20- 19 77

(Inspector)

Commissions N64207N (Nat'l Bd., State, Prov. and No.)

90007

RTL # A4.414-A

Form No. 1351

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) — Date 01-10-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #00-023380-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

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

5. (a) Applicable Construction Code Section III 19__ Edition, 71 Addenda, S'72 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)
Globe Valve	Fisher Controls	5726057	2370	2CHS-AOV200C	1977	---	Yes
Plug Assembly	Fisher Controls	LB7212-1	N/A	Ht #79890-1	1993	Replace-ment	Yes

7. Description of Work Replaced valve plug/stem assembly.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Replaced valve plug/stem assembly due to leak-by.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Eng. Date January 11th, 20 01
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 10/12/00 to 1/15/01, 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 Cimochi Commissions NB7504(N I) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 15, 20 01

004-B02090539
Item #0002

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 Fisher Controls Int'l Inc., 205 S. Center St., Marshalltown, IA 50158
(name and address of N-5 certificate holder)

2 Manufactured for Equipment & Controls, Inc., Box 12895, Pittsburgh, PA 15240
(name and address of purchaser)

3 Location of installation Beaver Valley Power Station, Shippingport, PA 15077
(name and address)

4 Type 21A8982 Rev. B SA-479-S31600 75.0 KSI N/A 1993
(type) (specification) (tensile strength) (yield strength) (year built)

5 ASME Code Section III 1971 Summer 1972 N/A
(edition) (addenda) (code case)

6 Fabricated in accordance with Const. Spec. No. N/A Revision N/A Date N/A

7 Remarks Design: ASME B&PVC Sect III 1971 Edition, Summer 1972 Addenda, Class 1

Other: ASME B&PVC Sect III 1986 Edition, No Addenda, Class 1

Parts Are For Valve S/N 5945206

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	~~Material Specification~~ ~~Material Specification~~ ~~Material Specification~~ Heat Number	Part or Appurtenance Serial Number	National Board Number in Numerical Order
1 LB7212-1	79590-1	(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 2485 psi Temp 650 °F Hydro. test pressure N/A (when applicable) at temp. °F

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

(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM N-2 (back)

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

Pressure Vessel Design is certified by Henry P. Leonard (Name of Engineer) P.E. State PA Reg. No. 23933-E

Stress Analysis is certified by N/A (Name of Engineer) P.E. State N/A Reg. No. N/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Valve Plug (Name of Vessel) conforms to the rules of construction of the ASME Code, Section III.

Type of Certificate of Authorization No. 1939 Expires 11-18-95

Date 8-9-93 Name Fisher Controls Intl Inc. (Name of Manufacturer) Signed Daniel L. Grazier (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

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 Hartford SBI & I Co. of Hartford, CONN have inspected these items described in this Data Report on 8-4-93 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, and that the stamping has been authorized for stamping on the date shown above.

Furthermore, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this certificate, 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 8-4-93 Signed [illegible] (Authorized Inspector) Commissions 822 I.A. (Nat'l Bd. No. & Jurisdiction)

RTL # A4.414-A

Form No. 1352

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) — Date 01-05-01

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #97-068214-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 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)
Gate Valve	Walworth	D66408	1669	2SWS-79	1977	---	Yes
Gate	Crane Nuclear	C8993	N/A	N/A	2000	Replace-ment	Yes

7. Description of Work Replaced valve wedge.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve gate (wedge) was replaced due to leak-by.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Senior Eng. Date January 8th, 20 01
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 9/21/00 to 1/9/01, 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 Cinnech Commissions NB7509 (N, I) PA 216 L
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 9, 20 01

Form No. 1353

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) — Date 01-08-01

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-077735-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Residual Heat Removal (Class 2)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 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)
Globe Valve	Walworth	A3364	1209	2RHS-15	1979	----	Yes
Disc	Crane Nuclear	C9480	N/A	N/A	2000	Replace-ment	Yes

7. Description of Work Replaced valve disc.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☒ Pressure 32 psi Test Temp. 72 °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Replaced valve disc due to leak-by.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior - Eng. (Owner or Owner's Designee, Title) Date January 8th, 20 01

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 5/2/00 to 1/15/01, 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 Cimock (Inspector's Signature) Commissions NB 7504 (A, I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 15, 20 01

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*
As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

1. Manufactured and certified by 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 CB02485 Rev. A (drawing no.) | SA351 Gr. CF8 (mat'l. spec. no.) | 70 KSI (Min.) (tensile strength) | N/A (CRN) | 2000 (year built)

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

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

7. Remarks: PO No. 7035620 Rev. 0, Item 2 SO No. 11724-02 6" Disc, P/N 41960, w/Stellite #6 Hardfacing

For a 6" N-2316-SP, 300#, Globe Valve Assy Drawing No. D-52911, Rev. 5 ** No Hydro performed

Material supplier: PRL Industries, Inc., Ht. No. 00193, PRL S/N: M570

8. Nom. thickness (in.) 1.00 Min. design thickness (in.) 0.984 Dia. ID (ft. & in.) 6 1/2" Length overall (ft. & in.) 3 3/4"

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)	C9480	N/A
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
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(18)		
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(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)		
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(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

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

Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 2 and 3 on this Data Report is included on each 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. C9480 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by Alan J. Fiorente (when applicable) P.E. State PA Reg. No. 032366-E

Design report * certified by N/A (when applicable) 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 (these) conforms to the rules of construction of the ASME Code, Section III, Division 1. Disc – P/N 41960

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

Date 09/21/00 Name CRANE Nuclear, Inc. (NPT Certificate Holder) Signed (Authorized Representative)
Jerome A. Kurowski, P.E.
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 09/21/00, 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 09/21/00 Signed (Authorized Nuclear Inspector)
Ronald A. [illegible]eiss Commissions Illinois 1296
(Nat'l. Bd. (incl. Endorsements) and state or prov. and no.)

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

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

1. Manufactured by Walworth Company/Alovco Plant, 1600 W. Elizabeth Avenue, Linden, New Jersey 07036
(Name and Address of N Certificate Holder)

2. Manufactured for Duquesne Light Company, Agents: Stone & Webster, Boston, Mass.
(Name and Address of Purchaser or Owner)

3. Location of Installation Beaver Valley Power Station, Unit 2
(Name and Address)

4. Pump or Valve 6" N2316 SP 300# Globe Valve. Nominal Inlet Size 6" (inch) Outlet Size 6" (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	N2316SP	A3364		D52911	2	1209	1979
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Borated water service
(Brief description of service for which equipment was designed)

6. Design Conditions _____ psi (Pressure) _____ °F (Temperature) or Valve Pressure Class 300# (1)

7. Cold Working Pressure 750 psi at 100°F.

8. Pressure Retaining Pieces

Part No.	Material Spec. No.	Manufacturer	Remarks Heat #
(a) Castings			
Body	SA-351, CF8	Walworth/Alovco	4732D
Bonnet	SA-351, CF8	Walworth/Alovco	4719D
Disc	SA-351, CF8	Walworth/Alovco	8100C
(b) Forgings			

RECEIVED
OCT 9 1979
Stone & Webster
Engineering Corporation
Document Review

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks Heat #
(c) Bolting			
Studs	SA-193, Gr B8	B&G Manufacturing	X135T
Nuts	SA-194, Gr8	B&G Manufacturing	S-469
(d) Other Parts			
Pipe Plug	SA-182, TPF 304	A.B. Murray	LG

9. Hydrostatic test 1125 psi. Disk Differential test pressure 750 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 1971 Addenda Winter 1972 (Date). Code Case No. 1672. Date Sept 27, 1974

Signed Walworth Company/Aloyco Plant (N Certificate Holder) by Frank Trupp Manager Q.A.

Our ASME Certificate of Authorization No. N-2076 to use the N (N) symbol expires 4-7-81 (Date).

CERTIFICATION OF DESIGN

Design information on file at Walworth Company/Aloyco Plant

Stress analysis report (Class 1 only) on file at Not required

Design specifications certified by (1) Faruk A. Gopalani

PE State PA Reg. No. 21966-E

Stress analysis certified by (1) Not required

PE State _____ Reg. No. _____

(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 New Jersey and employed by HSBI&I Co. of Hartford, Conn. have inspected the pump, or valve, described in this Data Report on 9/27 19 79, 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 9/27 19 79

John J. Jones (Inspector) Commissions #8499 (Nat'l Bd., State, 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

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 B7510-19 Rev. K (drawing no.) SA216 Gr. WCB (mat'l. spec. no.) 70 KSI (Min.) (tensile strength) N/A (CRN) 2000 (year built)

5. ASME Code, Section III, Division 1: 1971 (edition) Summer 1972 (addenda date) 3 (class) N/A (Code Case no.)

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

7. Remarks: PO No. 102360, Rev. 0, Item 1 SO No. 10970-01 3" Wedge, P/N 656932, w/Stellite #6 Hardfacing For a 3" 5202WE, 150#, Gate Valve Assy Drawing No. SK-1940-27, Rev. H ** No Hydro performed *** Part was not "NPT" Stamped due to size and/or configuration. Material supplier: PRL Industries, Inc., Ht. No. 0035, PRL S/N: M5

8. Nom. thickness (in.) 0.88 Min. design thickness (in.) 0.88 Dia. ID (ft. & in.) 3.97" Length overall (ft. & in.) 2.16"

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)	C8993	N/A	(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 ANSI 150 psi. Temp. ANSI 150 °F. Hydro. test pressure ** (when applicable) at temp. °F.

Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ 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 Nos. C8993 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by Alan J. Fiorente (when applicable) P.E. State PA Reg. No. 032366-E

Design report * certified by N/A (when applicable) 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 (these) conforms to the rules of construction of the ASME Code, Section III, Division 1. Wedge – P/N 656932

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

Date 06/30/00 Name CRANE Nuclear, Inc. (NPT Certificate Holder) Signed (Authorized Representative) Garrett Petrovich Lead 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 06/30/00, 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 06/30/00 Signed (Authorized Nuclear Inspector) Ron Weiss Commissions Illinois 1296 (Nat'l. Bd. (incl. Endorsements) and state or prov. and no.)

PN 31299-010 (BIT)

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES
(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Walworth Company, Greensburg, Plant, Greensburg, Pa. 15601
(Name and Address of Manufacturer)

2. Manufactured for Duquesne Light Company; Shippingport, Pa.
(Name and Address of Purchaser or Owner)

3. Location of Installation Beaver Valley Power Station, Beaver County, Shippingport, Pa.
(Name and Address)

4. Pump or Valve Valve. Nominal Inlet Size 3" (inch) Outlet Size 3

	(a) Model No., Series No., or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	5202 WE	D66408	N/A	SK 1940-27E	3	1669	1977
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

Duquesne Light Company
Beaver Valley Unit No. 2
P. O. No. 28V-73, J. O. No. 12241
Carbon Steel Valves - 2½ In. and Larger
Category I
Walworth Company
Greensburg, PA 15601

VALVE
D66408
SERIAL NO.

5. Oil/Steam/Water
(Brief description of service for which equipment was designed)

6. Design Conditions: (Pressure) psi (Temperature) °F or Valve Pressure Class ANSI 150 (1)

7. Cold Working Pressure 275 psi at 100°F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body G162 P3	SA 216, WCB	Walworth Co.	Seal Welded Seat
Bonnet G133 P7	SA 216, WCB	Walworth Co.	CoCrA Backseat
Wedge H137 P2	SA 216, WCB	Walworth Co.	CoCrA Faced
(b) Forgings			

Duquesne Light Company
Beaver Valley Unit No. 2
P. O. No. 28V-73, J. O. No. 12241
Carbon Steel Valves - 2½ In. and Larger
Category I
Walworth Company
Greensburg, PA 15601

(1) For manually operated valves only.

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

(1/79) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Stud SJ	SA 193, B7	REC	
Nut GR	SA 194, 2H	Haskell	
Nut TO	SA 194, 2H	REC	
(d) Other Parts			
			VALVE
			066408
			SERIAL NO.

9. Hydrostatic test 625 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 1971 Addenda June 30, 1972 (Date), Code Case No. 1672. Date 12/29/77

Signed Walworth Company (Manufacturer) by G. J. McGill

Our ASME Certificate of Authorization No. N-950 to use the N (N) (NPV) symbol expires 1/6/78 (Date).

CERTIFICATION OF DESIGN

Design information on file at Walworth Company, Greensburg, Pa. 15601

Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) C. O. Richardson, Jr. P. E. No. 28V-73, I. O. No. 12231

PE State Pa. Reg. No. 016297E

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

Duquesne Light Company
Beaver Valley Unit No. 2
Carbon Steel Valves - 2½ In. and Larger
Category I
Walworth Company
Greensburg, PA 15601

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 Pennsylvania and employed by The Hartford Steam Boiler I&I of Hartford, Conn. 06102 have inspected the pump, or valve, described in this Data Report on 12/29 19 77 and state that to the best of my knowledge and belief, the Manufacturer 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 12/29 19 77

(Inspector) Commissions NB 3251 PA 2222
(Nat'l Bd., State, Prov. and No.)

RTL # A4.414-A

Form No. 1354

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) — Date 11-27-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 3

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #99-223150-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

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

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 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)
Glove Valve	Kerotest	E011-3	6067	2CHS-484	1975	----	Yes
Disc	Flowserve Corp.	4	N/A	Ht #718665	2000	Replace-ment	Yes

7. Description of Work Replaced valve disc.

8. *Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure ___ psi Test Temp. _____ °F *N/A

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve disc was replaced due to leak-by. System leakage test not required due to ASME Interpretation XI-1-95-48.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date January 8th, 20 01

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 10/4/00 to 1/9/01, 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 NB7509 (N, I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 9, 20 01

4

108314

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Kerotest Manufacturing Corp. 2525 Liberty Avenue Pittsburgh, Pa. Order No. NU-40816
(Name & Address of Manufacturer)

2. Manufactured for Westinghouse Electric Corp. P.O. Box 355 Pittsburgh, Pa. Order No. 546-CCF-178252EN
(Name and Address)

3. Owner Duquesne Light Company

4. Location of Plant Beaver Valley #2

5. Pump or Valve Identification serial #'s E011-1, E011-2, E011-3, E011-4, E011-5, E01
E011-7, E011-8, E011-9, E011-10, E011-11, E011-12, E011-13, E011-14, OK9-1
(Brief description of service for which equipment was designed)
OK9-2, OK9-3, OK9-4, OK9-5, OK9-6, OK9-7, OK9-8, OK9-9, OK9-10, OK9-11

(a) Drawing No. W-D-9909-(2) Rev. F Sh. 1 of 2 Prepared by H. Dratfinsky radioactive WF1 fluid

(b) National Board No. 6065 thru 6089

6. Design Conditions 2580 (Pressure) psi 650 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 2

Edition 1971, Addenda Date Winter 1972, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body P-9909-1-(1)	SA182 F316	McWilliams Forge	Nat'l. Code EO & OK
Yoke P-9910-31-(1)	SA105	"	" JB

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Disc UP-9909-9-(1)	SA479 Type 316	Carpenter	Mat'l. Code KJ
Bonnet UP-9909-3-(1)	"	Joslyn	" LL

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.

Stress analysis report on file at N/A

Design specifications certified by F. Kenneth DeLuce (1) Prof. Eng. State Pa. Reg. No. 17128E

Stress analysis report certified by N/A (1) Prof. Eng. State _____ Reg. No. _____

(1) Signature not required. List name only.

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

Date April 4, 19 75 Signed Kerotest (Manufacturer) By S. J. Caroleo

Certificate of Authorization No. 908 expires 10/28/77

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Connecticut have inspected the equipment described in this Data Report on April 4 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 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 April 4, 19 75

(Inspector) Commissions NB 6750 (National Board, State, Province and No.)

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by Flowserve Corp., 701 First Street, Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for First Energy Corporation, P.O. Box 345, Shippingport, PA 15077
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 4, 5 & 6 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. 72622749 Drawing Prepared by Flowserve Corp.

(b) Description of Part Inspected DISC Heat #718665 SA479-316

(c) Applicable ASME Code: Section III, Edition 1977, Addenda date S'77, Case No. -- Class 2

3. Remarks: 2"-1500# Y-Globe
(Brief description of service for which component was designed)

Flowserve Shop Order #E010R-1

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 6/9/2000 Signed Flowserve Corp. By R L Stannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/01 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at _____

Stress analysis report on file at _____

Design specifications certified by _____ Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

CERTIFICATE OF SHOP 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~~ Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 2-18-00 thru 6-12-00 19__, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part 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 part described in this Partial 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 JUN 12 2000 By CU 256 Commissions Pennsylvania 2392
National Board, State, Province and No.

Charles Young
Inspector's Signature

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3.

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

RTL # A4.414-A

Form No. 1355

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) — Date 10-25-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #97-067746-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Auxilliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10157	N/A	2FWE-99	1993	Replaced	Yes
Check Valve	Enertech	11019	N/A	2FWE-99	2000	Replace-ment	Yes
Studs	Nova Machine	N/A	N/A	Ht #84830-PUW	1998	Replace-ment	No

7. Description of Work Replaced valve and inlet/outlet studs.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-11736. Previous NIS-2 Data Report Nos: 966, 667, 507.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date December 22nd, 20 00

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 10/16/00 to 1/4/01, 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 Cimock (Inspector's Signature) Commissions NB 7524 (N, I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 4, 20 01

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street; Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing PD99474 Rev. B CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA 105 Bonnet NA Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11017	N/A	JZT-001	N/A	JKT-004
11018	N/A	JZT-002	N/A	JKT-005
11019	N/A	JZT-003	N/A	JKT-006
11020	N/A	JZT-004	N/A	JKT-007
11021	N/A	JZT-005	N/A	JKT-008
11022	N/A	JZT-006	N/A	JKT-009
11023	N/A	JZT-007	N/A	JKT-010
11024	N/A	JZT-008	N/A	JKT-011

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Certificate Holder's Serial No. 11017 thru 11024

8. Design conditions Case 1: 1085 / Case 2: 1400 (pressure) psi 450 / 120 (temperature) °F or valve pressure class 600

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty. 8, Enertech Job Number 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartform Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA 15246 ND 9435 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 1356

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) — Date 10-25-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #97-067747-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Auxilliary Feedwater (Class 2)

5. (a) Applicable Construction Code Section III 19 74 Edition, S'74 Addenda, ---- 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)
Check Valve	Enertech	10159	N/A	2FWE-101	1993	Replaced	Yes
Check Valve	Enertech	11021	N/A	2FWE-101	2000	Replace-ment	Yes
Studs	Nova Machine	N/A	N/A	Ht #69541-RTX	1998	Replace-ment	No
Nuts	Nova Machine	N/A	N/A	Ht #8077124-MTX	1999	Replace-ment	No

7. Description of Work Replaced valve and inlet/outlet studs and nuts.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Valve was replaced per TER-11736. Previous NIS-2 Data Report Nos: 968, 669, 507, 371, and 214.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. (Owner or Owner's Designee, Title) Date December 22nd, 20 00

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 10/10/00 to 1/4/01, 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 Cimecki (Inspector's Signature) Commissions NB7504 (N,I) PA2162 (National Board, State, Province, and Endorsements)

Date Jan 4, 20 01

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

1. Manufactured and certified by Enertech, a Div. of Curtiss-Wright Flow Control Corp. 2950 Birch Street; Brea, CA 92821
(name and address of N Certificate Holder)

2. Manufactured for First Energy Corp.; P.O. Box 345; Shippingport, PA 15077
(name and address of Purchaser)

3. Location of installation Beaver Valley Power Station; Rt. 168; Shippingport, PA 15077
(name and address)

4. Model No., Series No., or Type Nozzle Check DRV-Z Drawing PD99474 Rev. B CRN None

5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) None (Code Case no.)

6. Pump or valve Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA 105 Bonnet NA Disk SA479 Type 316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
11017	N/A	JZT-001	N/A	JKT-004
11018	N/A	JZT-002	N/A	JKT-005
11019	N/A	JZT-003	N/A	JKT-006
11020	N/A	JZT-004	N/A	JKT-007
11021	N/A	JZT-005	N/A	JKT-008
11022	N/A	JZT-006	N/A	JKT-009
11023	N/A	JZT-007	N/A	JKT-010
11024	N/A	JZT-008	N/A	JKT-011

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Certificate Holder's Serial No. 11017 thru 11024

8. Design conditions Case 1: 1085 / Case 2: 1400 psi (pressure) 450 / 120 (temperature) °F or valve pressure class 600

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1600 psi

11. Remarks: Qty. 8, Enertech Job Number 22361V

CERTIFICATION OF DESIGN

Design Specification certified by Frank W. Gardner P.E. State PA Reg. no. 036614-E
Design Report certified by Ira J. Silverman P.E. State CA Reg. no. 23241

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-2826 Expires 10/26/02

Date 5/4/00 Name Enertech (N Certificate Holder) Signed [signature] (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 Hartform Steam Boiler of Connecticut have inspected the pump, or valve, described in this Data Report on 5.4.00, 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 5.4.00 Signed [signature] (Authorized Inspector) Commissions CA1526 NB 9435 N (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

RTL # A4.414-A

Form No. 1357

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) — Date 11-27-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-215853-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Feedwater (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 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)
Globe Valve	Copes-Vulcan	7310-95255-1-1	787	2FWS-FCV478	1977	---	Yes
Stud	Nova Machine	N/A	N/A	Ht #94693-CWM	1996	Replace-ment	No
Nut	Nova Machine	N/A	N/A	Ht #73265-32-2SAS	2000	Replace-ment	No

7. Description of Work Replaced stud and nut.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Report Nos: 898, 794, 383, 130, 077. Valve cage was replaced with a new design per TER-12776 to improve reliability, plug was not replaced. Plug was machined .004" on O.D. Stud and nut replaced due to damage upon disassembly of valve.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Engineer Date January 02, 20 01
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 6/27/00 to 1/5/01, 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 Cimock Commissions NB 7509 (N,I) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan. 5, 20 01

Form No. 1358

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) — Date 11-27-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-215854-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Feedwater (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 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)
Globe Valve	Copes-Vulcan	7310-95255-1-2	795	2FWS-FCV488	1977	---	Yes
Plug	Copes-Vulcan	9721-96570-1-1	N/A	N/A	1999	Replace-ment	Yes
Stud	Nova Machine	N/A	N/A	Ht #67944-TED	1997	Replace-ment	No
Nut	Nova Machine	N/A	N/A	Ht #73265-32-2SAS	2000	Replace-ment	No
Helicoil	Nova Machine	N/A	N/A	Ht #35441	1999	Replace-ment	No

7. Description of Work Replaced valve trim, installed two heilicoil inserts and replaced studs and nuts.

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

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Report Nos: 899, 795, 384, 238, 131, 078, 047, 046. Valve trim was replaced with a new design per TER-12776 to improve reliability. Helicoils were installed and studs and nuts replaced due to damage upon disassembly of valve.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Senior Engineer Date December 22nd, 20 00
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 10/18/00 to 1/5/01, 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 Jan 5, 20 01

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

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

Not to Exceed One Day's Production

1. Manufactured and certified by Copes-Vulcan, Inc., Martin & Rice Avenues, Lake City, PA 16423 (name and address of NPT Certificate Holder)
2. Manufactured for Duquesne Light Company, Shippingport, PA (name and address of Purchaser)
3. Location of installation Beaver Valley Station, Shippingport, PA (name and address)
4. Type: D-343608 Rev. 0 (drawing no.) A276 Typ 420 (mat'l. spec. no.) 242.77 ksi (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III, Division 1: 1971 (edition) Summer 1972 (addenda date) 3 (class) N-62-6 (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: Plug for 12" Class 900# Valve per Ass'y Dwg. D-166222 Rev. 22

   Cust. P.O. D161170 CV Job 9721-96570

   Valve I.D. 16FA37RG Ref. CV Job 7310-95255
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) 9721-96570-1-1 (99-3)	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)	

Design pressure 1445 psi. Temp. 443 °F. Hydro. test pressure N/A (when applicable) at temp. °F

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

(12/88)

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

FORM N-2 (Back — Pg. 2 of ____)

Certificate Holder's Serial Nos. 9721-96570-1-1 through 1-1

CERTIFICATION OF DESIGN

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

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

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-1843 Expires 8/19/01

Date 7-23-99 Name Copes-Vulcan, Inc. (NPT Certificate Holder) Signed [signature] (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 Norwood, MA have inspected these items described in this Data Report on 7-23-99, 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 7-23-99 Signed [signature] (Authorized Inspector) Commissions [illegible] (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

RTL # A4.414-A

Form No. 1359

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) — Date 11-27-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — W.O. #99-215855-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Feedwater (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 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)
Globe Valve	Copes-Vulcan	7310-95255-1-3	795	2FWS-FCV498	1977	---	Yes
Plug	Copes-Vulcan	9721-96399-1-1	N/A	N/A	1997	Replace-ment	Yes
Stud	Nova Machine	N/A	N/A	Ht #94693-CWM	1996	Replace-ment	No
Nut	Nova Machine	N/A	N/A	Ht #73265-32-2SAS	2000	Replace-ment	No
Helicoil	Nova Machine	N/A	N/A	Ht #35441	1999	Replace-ment	No

7. Description of Work Replaced valve trim, installed two heilicoil inserts and replaced stud and nut.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Previous NIS-2 Data Report Nos: 900, 796, 385, 239, 132, 079, 052, 011. Valve trim was replaced with a new design per TER-12776 to improve reliability. Helicoils were installed and stud and nut replaced due to damage upon disassembly of valve.

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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Senior Eng. Date January 5th, 20 01
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 6/27/00 to 1/9/01, 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 NB 7509 (N, I) PA 2102
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 9, 20 01

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

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

Not to Exceed One Day's Production

1. Manufactured and certified by Copes-Vulcan, Inc., Martin & Rice Avenues, Lake City, PA 16423 (name and address of NPT Certificate Holder)
2. Manufactured for Duquesne Light Company, Shippingport, PA (name and address of Purchaser)
3. Location of installation Beaver Valley Station, Shippingport, PA (name and address)
4. Type: D-343608 Rev.0 (drawing no.) A276 Typ 420 (mat'l. spec. no.) 245.91 ksi (tensile strength) N/A (CRN) 1997 (year built)
5. ASME Code, Section III, Division 1: 1971 (edition) Summer 1972 (addenda date) 3 (class) N-62-6 (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: Plug for 12" Class 900# Valve per Ass'y Dwg. D-166222 Rev. 22

   Cust. P.O. D154730 CV Job 9721-96399

   Valve I.D. 16FA37RG Ref. CV Job 7310-95255
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	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 9721-96399-1-1 (97-1)	N/A	(26)	
(2) 9721-96399-1-2 (97-2)	N/A	(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 1445 psi. Temp. 443 °F. Hydro. test pressure N/A (when applicable) at temp. °F

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

(12/88)

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

Reprint (7/91)

FORM N-2 (Back — Pg. 2 of ____)

Certificate Holder's Serial Nos. 9721-96399-1-1 through 1-2

CERTIFICATION OF DESIGN

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

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

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-1843 Expires 8/19/98

Date 8-15-97 Name Copes-Vulcan, Inc. (NPT Certificate Holder) Signed [signature] (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 Protection Mutual Insurance Company* of Norwood, MA have inspected these items described in this Data Report on _____, 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 desc in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damag loss of any kind arising from or connected with this inspection.

*Factory Mutual Eng. Ass'n.

Date 8-15-97 Signed [signature] (Authorized Inspector) Commissions PA 2227E (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

RTL # A4.414-A

Form No. 1360

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) — Date 01-05-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 2

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — W.O. #00-025561-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Maintenance (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 19 71 Edition, W'72 Addenda, See N-5 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)
Piping	Schneider Power	SWS-182-4A1	N/A	2-SWS-003-182-3	1984	Repaired	Yes

7. Description of Work Weld repaired pinhole leak in 3"x2" reducer to 3" pipe weld.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Code Data Report attached. Original spoolpiece S/N N-1141-2704 (SWS-182-4) manufactured by Power Piping Company in 1977 was modified by Schneider Power in 1984. Concentric reducer 3"x2" to 3" pipe weld was repaired in accordance with Code Case N-416 to correct a pinhole leak.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] Sr. Eng. (Owner or Owner's Designee, Title) Date January 5th, 20 01

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 10/19/00 to 1/8/01, 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 NB 7509 (N, I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 8, 20 01

SR-30

[redacted]

2-SWS-101917-2

FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*

As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 5

1. Fabricated and certified by Schneider Power Corp., 125 Seventh St., Pgh., PA 15222
(Name and address of NPT Certificate Holder)

2. Fabricated for Duquesne Light Co., One Oxford Centre, 301 Grant St., Pgh., PA 15279
(Name and address)

3. Location of installation Beaver Valley Power Station, Unit No.2, Shippingport, PA 15077

4. Identification 2-SWS-101917-2 (Cert. Holders serial no.) N/A (CRN) ISO-101917(OH) RM-47D(15D) (Drawing no.) N/A (Nat'l bd. no.) 1984 (Year built)

5. ASME Code, Section III 1971 (Edition) Winter 1972 (Addenda date) 3 (Class) N/A (Code Case)

6. Shop hydrostatic test N/A psi at N/A °F (if performed)

7. Description of piping SWS-182-4A1

8. Certificate Holders Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this Report: SWS-182-4
Power Piping Company, S/N N-1141-2704

9. Remarks See attached Power Piping Company NPP-1 Data Report S/N N-1141-2704 for material used in original spool SWS-182-4.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this Report are correct and that the fabrication of the described piping conforms to the rules for construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N/A Expires N/A

Date N/A Name N/A (NPT Certificate Holder) Signed N/A (Representative)

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 N/A and employed by N/A of N/A have inspected the component described in this Data Report on N/A, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component 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 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 N/A Signed N/A (Authorized Inspector) Commissions N/A (Nat'l bd. incl. endorsements, State or Prov. and no.)

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

(6/83) This form (E00062) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

SWEC DRG REVIEW INSTALLATION

FORM NPP-1 (back)

10. Description of field fabrication. See attached CRN, 101917-2(3) for details of modification to original spool SWS-182-4. Additional material and weld are not considered part of this modification.

11. Pneu., hydro., or comb. test pressure To be performed at time of psi at temp. system hydro. °F (if performed)

CERTIFICATE OF FIELD FABRICATION COMPLIANCE

We certify that the statements on this Report are correct and that the field fabrication of the described piping conforms with the rules for construction of the ASME CODE, Section III.

NPT Certificate of Authorization No. N-1825-1 Expires August 12, 1986

Date 9/10/84 Name Schneider Power Corp. (Certificate Holder) Signed [signature] (Representative) 9-11-84

CERTIFICATE OF FIELD FABRICATION 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 HSBI & I Co. of Hartford, CT have compared the statements in this Data Report with the described piping and state that parts referred to as data items 10, not included in the Certificate of Shop Inspection have been inspected by me on 9/11/84 and that to the best of my knowledge and belief the NPT Certificate Holder has fabricated this piping in accordance with the ASME Code, Section III.

By signing this cerificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping 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 9/11/84 Signed [signature] (Authorized Inspector) Commissions PA 1150 (Nat'l. Bd., and endorsements, State or Prov. and No.)

SWEC DTG INSTALLATION

RTL # A4.414-A

Form No. 1362

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) — Date 10-10-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 00-021318-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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	18481	N/A	2RHS-PSSP003	---	Replaced	No
Snubber	Pacific Scientific	30036	N/A	2RHS-PSSP003	---	Replace-ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] ISI Lead (Owner or Owner's Designee, Title) Date 1/4, 20 01

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 9/26/00 to 11/5/01, 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 Cimock (Inspector's Signature) Commissions NB7509 (NI) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan. 5, 20 01

Form No. 1363

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) — Date 10-10-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 99-218580-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   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	24931	N/A	2RHS-PSSP008B	---	Replaced	No
Snubber	Pacific Scientific	23664	N/A	2RHS-PSSP008B	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead
Owner or Owner's Designee, Title

Date 1/4, 20 01

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 7/15/00 to 1/10/01, 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 Cimock
Inspector's Signature

Commissions NB7509 (N.I) PA2162
National Board, State, Province, and Endorsements

Date Jan 10, 20 01

Form No. 1364

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) — Date 10-10-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 99-218581-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   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	25269	N/A	2RHS-PSSP209B	---	Replaced	No
Snubber	Pacific Scientific	23666	N/A	2RHS-PSSP209B	---	Replace-ment	No

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

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

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] IST Lead (Owner or Owner's Designee, Title) Date 1/4, 20 01

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 8/15/00 to 1/10/01, 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 Cimock (Inspector's Signature) Commissions NB 7509 (N, I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 10, 20 01

RTL # A4.414-A

Form No. 1365

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) — Date 10-10-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 99-218582-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — 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	24935	N/A	2SIS-PSSP449B	---	Replaced	No
Snubber	Pacific Scientific	24937	N/A	2SIS-PSSP449B	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] ISI Lead (Owner or Owner's Designee, Title) Date January 4, 20 01

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 8/15/00 to 1/10/01, 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 Cameron (Inspector's Signature) Commissions NB 7504 (N,I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 10, 20 01

RTL # A4.414-A

Form No. 1366

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) — Date 10-01-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 99-218586-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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	30300	N/A	2RCS-PSSP010B	---	Replaced	No
Snubber	Pacific Scientific	18672	N/A	2RCS-PSSP010B	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] ISI Lead (Owner or Owner's Designee, Title) Date January 4, 20 01

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 8/15/00 to 1/10/01, 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 Cimock (Inspector's Signature) Commissions NB 7509 (NI) PA216L (National Board, State, Province, and Endorsements)

Date Jan 10, 20 01

RTL # A4.414-A

Form No. 1367

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) — Date 10-10-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 99-218588-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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	18653	N/A	2RCS-PSSP026A	---	Replaced	No
Snubber	Pacific Scientific	27279	N/A	2RCS-PSSP026A	---	Replace-ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead Date January 5, 20 01
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 7/25/00 to 1/9/01, 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 Commissions NB7009(N,I) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 9, 20 01

Form No. 1368

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) — Date 10-10-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 99-218590-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   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	30037	N/A	2SWS-PSSP771Y	---	Replaced	No
Snubber	Pacific Scientific	29438	N/A	2SWS-PSSP771Y	---	Replace-ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 5, 20 01

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 2/25/00 to 1/9/01, 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 Cimock (Inspector's Signature) Commissions NB7509(WI) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 9, 20 01

Form No. 1369

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) — Date 10-10-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 99-218595-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   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	16967	N/A	2SWS-PSSP772B	---	Replaced	No
Snubber	Pacific Scientific	17163	N/A	2SWS-PSSP772B	---	Replace-ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 5, 20 01

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 8/25/00 to 1/9/01, 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 Camoch (Inspector's Signature) Commissions NB7504(N,I) PA2162 (National Board, State, Province, and Endorsements)

Date Jan 9, 20 01

Form No. 1370

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) — Date 10-10-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 99-218597-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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	11996	N/A	2RHS-PSSP521X	---	Replaced	No
Snubber	Pacific Scientific	6685	N/A	2RHS-PSSP521X	---	Replace-ment	No

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

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

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] ISI Lead Date January 5, 20 01
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 8/25/00 to 1/10/01, 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 Cimock
Inspector's Signature

Commissions NB7501 (N, I) PA2162
National Board, State, Province, and Endorsements

Date Jan 10, 20 01

RTL # A4.414-A

Form No. 1371

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) — Date 01-11-01

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 99-218608-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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	9360	N/A	2RHS-PSSP008A	---	Replaced	No
Snubber	Pacific Scientific	25267	N/A	2RHS-PSSP008A	---	Replace-ment	No

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

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

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 11, 20 01

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 7/28/00 to 11/11/01, 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 NB7509(NI) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 11, 20 01

RTL # A4.414-A

Form No. 1372

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) — Date 10-10-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 99-218612-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — 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	25268	N/A	2SIS-PSSP209A	---	Replaced	No
Snubber	Pacific Scientific	24110	N/A	2SIS-PSSP209A	---	Replace-ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] (Owner or Owner's Designee, Title) ISI Lead Date January 5, 20 01

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 2/28/00 to 1/10/01, 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 Cameron (Inspector's Signature) Commissions NB7504 (N I) PA2162 (National Board, State, Province, and Endorsements)

Date Jan 10, 20 01

RTL # A4.414-A

Form No. 1373

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) — Date 10-01-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 99-218613-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — 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	24934	N/A	2SIS-PSSP449A	---	Replaced	No
Snubber	Pacific Scientific	23665	N/A	2SIS-PSSP449A	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 5, 20 01

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 7/27/00 to 1/10/01, 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 NB 7509 (N, I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 10, 20 01

Form No. 1375

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) — Date 01-05-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 00-021314-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   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	30291	N/A	2RCS-PSSP006A	---	Replaced	No
Snubber	Pacific Scientific	27941	N/A	2RCS-PSSP006A	---	Replace-ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead Date January 5, 20 01
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 7/26/00 to 1/10/01, 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 NB7509(N,I) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 16, 20 01

Form No. 1376

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) — Date 10-01-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 00-021313-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Component Cooling

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	16260	N/A	2CCP-PSSP317A	---	Replaced	No
Snubber	Pacific Scientific	18480	N/A	2CCP-PSSP317A	---	Replace-ment	No

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

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

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 6, 20 01

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 1/26/00 to 1/15/01, 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 Cimach (Inspector's Signature) Commissions NB 7509 (NI) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 15, 20 01

RTL # A4.414-A

Form No. 1377

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) — Date 10-14-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 00-021409-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Main Steam

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	25731	N/A	2MSS-PSSP476	---	Replaced	No
Snubber	Pacific Scientific	24935	N/A	2MSS-PSSP476	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [illegible] Lead (Owner or Owner's Designee, Title) Date January 6, 20 01

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 9/29/00 to 1/11/01, 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 NB7509 (N,I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 11, 20 01

RTL # A4.414-A

Form No. 1378

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) — Date 01-06-01

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 00-021408-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Main Steam

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	25698	N/A	2MSS-PSSP456	---	Replaced	No
Snubber	Pacific Scientific	24932	N/A	2MSS-PSSP456	---	Replace-ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 6, 20 01

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 9/29/00 to 1/11/01, 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 NB7509 (N I) PA2162 (National Board, State, Province, and Endorsements)

Date Jan 11, 20 01

RTL # A4.414-A

Form No. 1379

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) — Date 10-10-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 00-021748-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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	30036	N/A	2SWS-PSSP770B	---	Replaced	No
Snubber	Pacific Scientific	30278	N/A	2SWS-PSSP770B	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 6, 20 01

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 10/2/00 to 1/11/01, 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 NB7509 (N, I) PA2162 (National Board, State, Province, and Endorsements)

Date Jan 11, 20 01

RTL # A4.414-A

Form No. 1380

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) — Date 10-10-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 00-021324-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   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	17000	N/A	2SWS-PSSP832A	---	Replaced	No
Snubber	Pacific Scientific	16999	N/A	2SWS-PSSP832A	---	Replac - ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 6, 20 01

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 9/26/00 to 1/11/01, 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 the inspection.

Robert Cimoch (Inspector's Signature) Commissions NB7509 (N,I) PA2162 (National Board, State, Province, and Endorsements)

Date Jan. 11, 20 01

RTL # A4.414-A

Form No. 1381

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) — Date 11-22-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 00-021744-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   Expiration Date "

4. Identification of System Component Cooling

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	16261	N/A	2CCP-PSSP317B	---	Replaced	No
Snubber	Pacific Scientific	29436	N/A	2CCP-PSSP317B	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] / Sr. Lead (Owner or Owner's Designee, Title) Date January 6, 20 01

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 10/2/00 to 1/11/01, 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 Cimock (Inspector's Signature) Commissions NB 7509 (N, I) PA2162 (National Board, State, Province, and Endorsements)

Date Jan. 11, 20 01

Form No. 1382

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) — Date 10-14-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 00-021746-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   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	18482	N/A	2RCS-PSSP022X	---	Replaced	No
Snubber	Pacific Scientific	30291	N/A	2RCS-PSSP022X	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead Date January 6, 20 01
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 10/2/00 to 11/11/01, 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 Commissions NB7509 (NI) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 11, 20 01

Form No. 1383

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) — Date 10-14-00

   76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

   Shippingport, PA 15077 (ADDRESS) — WO # 00-021909-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

   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	18657	N/A	2RCS-PSSP030X	---	Replaced	No
Snubber	Pacific Scientific	30300	N/A	2RCS-PSSP030X	---	Replace-ment	No

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

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐

   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead Date January 6, 20 01
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 10/3/00 to 1/15/01, 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 Commissions NB7509 (N,I) PA2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Jan 15, 20 01

RTL # A4.414-A

Form No. 1384

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) — Date 10-10-00

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 00-021743-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

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	30299	N/A	2RCS-PSSP894	---	Replaced	No
Snubber	Pacific Scientific	30364	N/A	2RCS-PSSP894	---	Replace-ment	No

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

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

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 6, 20 01

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 10/2/00 to 1/15/01, 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 NB7509 (N,I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 15, 20 01

RTL # A4.414-A

Form No. 1385

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) — Date 01-06-01

76 South Main Street – Akron, OH 44308 (ADDRESS) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (NAME) — Unit No. 2

Shippingport, PA 15077 (ADDRESS) — WO # 00-021394-000 (REPAIR ORGANIZATION P.O. NO., JOB NO., ETC.)

3. Work Performed By BVPS - Nuclear Constr. (NAME) — Type Code Symbol Stamp Not Applicable

Shippingport, PA 15077 (ADDRESS) — Authorization No. N/A

Expiration Date "

4. Identification of System Main Steam

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	1173	N/A	2MSS-PSSP103	---	Replaced	No
Snubber	Pacific Scientific	41734	N/A	2MSS-PSSP103	---	Replace-ment	No

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

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

FORM NIS-2 (Back)

9. Remarks Replaced snubber with a spare for testing purposes. No Code Data Reports are available, the 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 (Repair Or Replacement) conforms to the rules of the ASME Code Section XI.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [signature] ISI Lead (Owner or Owner's Designee, Title) Date January 6, 20 01

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 9/27/00 to 1/15/01, 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. Furth more, 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 NB7509 (N, I) PA 2162 (National Board, State, Province, and Endorsements)

Date Jan 15, 20 01

Form #: 1386

RTL# A4.414-A

APPENDIX II - MANDATORY

Form NIS-2

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

1. Owner First Energy Nuclear Operating Company (Name) — Date 10/26/00

   76 South Main Street – Akron, OH 44308-1890 (Address) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name) — Unit 2

   Shippingport, PA 15077 (Address) — Westinghouse P.O. 7024829 (Reactor Organization P.O. No., Job No., etc.)

3. Work Performed by FENOC/Life Cycle Mgm't (Name) — Type Code Symbol Stamp Not Applicable

   Authorization No. N/A

   Shippingport, PA 15077 (Address) — Expiration Date N/A

4. Identification of System Reactor Coolant (Class 1)

5.(a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, See N-1 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacement 19 1989 Edition

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Heat Exchanger	Westinghouse	DMGT-1961	W-16598	2RCS-SG21A	1977	Repaired & Replaced	Yes

7. Description of Work Plugged 18 tubes (hot leg & cold leg). Stabilized 7 tubes in the hot leg & 4 tubes in the cold leg. Machined secondary side manway #1(cover & vessel pad), secondary side handhole covers #1 & #2, secondary side inspection opening covers #1 through #4.
Replaced 3 primary manway studs (2AH3, 2AH13 & 2AH15).

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

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

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

FORM NIS-2 (Back)

9. Remarks ASME repair work orders: Tube plugging/stabilization – W.O. 99-217553-000
Applicable Manufacturer's Data Reports to be attached
Secondary side manway machining – W.O. 00-008647-000
Secondary side handhole machining – W.O. 99-217563-000
Secondary side inspection opening machining – W.O. – 00-020298-000

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Gary Alberti, ISI Coordinator Date 10/26/00
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 Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 4/11/00 to 10/31/00, 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 NB7509 (N,I) PA 2162
National Board, State, Province, and Endorsements

Date Oct 31, 2000

Form #: 1387

RTL# A4.414-A

APPENDIX II - MANDATORY

Form NIS-2

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

1. Owner First Energy Nuclear Operating Company (Name) — Date 10/26/00

   76 South Main Street – Akron, OH 44308-1890 (Address) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name) — Unit 2

   Shippingport, PA 15077 (Address) — Westinghouse P.O. 7024829 (Reactor Organization P.O. No., Job No., etc.)

3. Work Performed by FENOC/Life Cycle Mgm't (Name) — Type Code Symbol Stamp Not Applicable

   Authorization No. N/A

   Shippingport, PA 15077 (Address) — Expiration Date N/A

4. Identification of System Reactor Coolant (Class 1)

5.(a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, See N-1 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacement 19 1989 Edition

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Heat Exchanger	Westinghouse	DMGT-1962	W-16599	2RCS-SG21B	1977	Repaired & Replaced	Yes

7. Description of Work Plugged 20 tubes (hot leg & cold leg). Stabilized 11 tubes in the hot leg. Machined secondary side manway #2 (cover & vessel pad), secondary side handhole covers #1 & #2, secondary side inspection opening vessel pads #1 through #4 & inspection opening cover #3. Replaced inspection opening cover #4 & associated 4 bolts. Replaced primary manway stud (2BC15). Installed 4 helicoils (#5, #6, #7, #9) in secondary M/W #2.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

   Other ☐ Pressure _____ psi Test Temp. _____ °F

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

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

FORM NIS-2 (Back)

9. Remarks ASME repair work orders: Tube plugging/stabilization – W.O. 99-217554-000
Applicable Manufacturer's Data Reports to be attached
Secondary side manway machining/helicoil installation – W.O. 00-008648-000
Secondary side handhole machining – W.O. 99-217564-000
Secondary side inspection opening machining – W.O. – 00-020299-000

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Gary Alberti, ISI Coordinator Date 10/26/00
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 Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 4/11/00 to 10/31/00, 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 NB7509(N,I) PA2162
National Board, State, Province, and Endorsements

Date Oct 31, 2000

Form #: 1388

RTL# A4.414-A

APPENDIX II - MANDATORY

Form NIS-2

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

1. Owner First Energy Nuclear Operating Company (Name) — Date 10/26/00

   76 South Main Street – Akron, OH 44308-1890 (Address) — Sheet 1 of 1

2. Plant Beaver Valley Power Station (Name) — Unit 2

   Shippingport, PA 15077 (Address) — Westinghouse P.O. 7024829 (Reactor Organization P.O. No., Job No., etc.)

3. Work Performed by FENOC/Life Cycle Mgm't (Name) — Type Code Symbol Stamp Not Applicable

   Authorization No. N/A

   Shippingport, PA 15077 (Address) — Expiration Date N/A

4. Identification of System Reactor Coolant (Class 1)

5.(a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda, See N-1 Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacement 19 1989 Edition

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Heat Exchanger	Westinghouse	DMGT-1963	W-16600	2RCS-SG21C	1977	Repaired & Replaced	Yes

7. Description of Work Plugged 6 tubes (hot leg & cold leg). Stabilized 5 tubes in the hot leg. Machined secondary side manway #2 (cover & vessel pad), secondary side handhole covers #1 & #2, secondary side inspection opening covers #1 through #4.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

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

FORM NIS-2 (Back)

9. Remarks ASME repair work orders: Tube plugging/stabilization – W.O. 99-217558-000
Applicable Manufacturer's Data Reports to be attached
Secondary side manway machining – W.O. 00-008652-000
Secondary side handhole machining – W.O. 99-217565-000
Secondary side inspection opening machining – W.O. – 00-020300-000

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair/replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Gary Alberti, ISI Coordinator Date 10/26/00
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 Company of Johnston, Rhode Island have inspected the components described in this Owner's Report during the period 4/11/00 to 10/31/00, 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 Commissions NB7509 (N, I) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct 31, 2000