INSERVICE INSPECTION NINETY-DAY REPORT

BEAVER VALLEY POWER STATION UNIT 2

Outage 5, Year 1995

Inspection Term: 11/25/93 to 5/7/95

Issue date: 7-10-95

Owner: Duquesne Light Company
One Oxford Center
301 Grant Street
Pittsburgh, PA 15279

NRC Docket Number: 50-412

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

Prepared by: _____ Date: 6-19-95

Reviewed by: _____ Date: 6/23/95
Director, Materials and Standards Section

Reviewed by: _____ Date: 7/6/95
ANII

Reviewed by: _____ Date: 6/27/95
Manager, Nuclear Engineering Department

Approved by: _____ Date: 7/7/95
Division Vice President, Nuclear Services

90-DAY REPORT
TABLE OF CONTENTS

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

1. Owner Duquesne Light Company, One Oxford Centre, Pittsburgh, PA 15279
(Name and Address of Owner)

2. Plant Beaver Valley Power Station, P.O. Box 4, 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	160591	21669
21B Steam Gen	Westinghouse	1962	485066	W16599
21C Steam Gen	Westinghouse	1963	485067	W16600
Pressurizer	Westinghouse	1971	485064	W18695
21A Reactor Coolant Pump	Westinghouse	W-11001-A1	N/A	N/A
Reactor Coolant Piping	Southwest Fabricating	N/A	N/A	N/A
Auxiliary Piping Systems	Sneider Power Corp.	N/A	N/A	N/A
Regenerative Heat Exchanger	Westinghouse	2255-2-1	484993	884
21A Recirculation Spray Pump	Bingham Willamette	230439	N/A	993 Suction NB314 Disch
Valve 2RHS-MOV-720B	Westinghouse	0002	N/A	N/A
21A Boric Acid Tank	RECO	19A6111-1	N/A	W10
21A Fuel Pool Cooling Pump	Goulds	N756B281-1	N/A	N/A
21A Fuel Pool Heat Exchanger	Joseph Oat	J2226	491663	929
21B Quench Spray Pump	Bingham Willamette	14210239	N/A	N/A
21B Component Cooling Pump	Ingersoll-Rand	0574-111	N/A	N/A
22 Auxiliary Feedwater Pump	Bingham Willamette	230701	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 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.

8. Examination Dates _____ to _____ 9. Inspection Interval from _____ to _____

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

11. Abstract of Conditions Noted

12. Abstract of Corrective Measures Recommended and Taken

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) _____ Expiration Date _____

Date _____ 19 _____ Signed _____ By _____
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____ have inspected the components described in this Owner's Report during the period _____ to _____, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date _____ 19 _____

(12/82)

This page was left blank intentionally.
See back of next page for signatures

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

1. Owner Duquesne Light Company, One Oxford Centre, Pittsburgh, PA 15279
(Name and Address of Owner)

2. Plant Beaver Valley Power Station, P.O. Box 4, 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.
23B Auxiliary Feedwater Pump	Bingham Willamette	230703	N/A	N/A
2HVC-REF24A	Carrier	J893200	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 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.

8. Examination Dates 11/25/93 to 5/7/95 9. Inspection Interval from 11/17/87 to 11/17/97

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

See Appendices I, II, and III

11. Abstract of Conditions Noted

See text

12. Abstract of Corrective Measures Recommended and Taken

See Appendix IV

We certify that the statements made in this report are correct and the examinations and 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 June 19 19 95 Signed Duquesne Light 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 ARKWRIGHT MUT INS. CO. of NORWOOD, MASS. have inspected the components described in this Owner's Report during the period 11/25/93 to 5/7/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 J. Cimock Commissions NB 7509 (NBIS IS) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date JULY 6 19 95

(12/82)

OUTAGE SUMMARY

During the Fifth Refueling Outage (2R05) at the Beaver Valley Power Station, Unit 2, Inservice Inspection (ISI) examinations were performed on Class 1, 2, and 3 components. This was the first outage in the third period of the first ten year interval. Also included in this report and the counts below are examinations performed prior to 2R05 during plant operation. The examinations were based on ASME Section XI, 1983 Edition through Summer 1983 Addenda, using Code Case N-408 for Class 2 piping welds.

ASME XI Credited Exams (See Appendix I)

1. Four hundred, one (401) Class 1 exams were performed and are divided as follows:

   a. Welds (piping, attachments and vessels)
      - Ultrasonic Exams - 30
      - Penetrant Exams - 112
      - Visual Exams - 5

   b. Bolting Examinations
      - Ultrasonic Exams - 45
      - Mag Particle Exams - 40
      - Visual Exams - 137

   c. Support Visual Exams - 30

   d. Valve Body Internals - 1 (visual)

   e. Reactor Vessel head interior - 1 (visual)

2. Two-hundred, twenty-five (225) Class 2 exams were performed and are divided as follows:

   a. Welds (piping, attachments, pumps, and vessels)
      - Ultrasonic Exams - 50
      - Penetrant Exams - 115
      - Mag Particle Exams - 12
      - Visual Exams - 15

   b. Supports, Visual Exams - 33

3. One-hundred, fifty-one (151) visual exams of Class 3 supports were performed and are divided as follows:

   a. Supports, Visual exams - 27
   b. Attachments, Visual exams - 124

Examinations were performed by Duquesne Light Company and VCR NDE Technicians. Appendix I compiles the examinations that have been credited toward fulfilling the Ten Year Plan requirements. Appendix II identifies baseline examinations. Appendix III lists additional and successive examinations required during 2R05.

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 during the outage on various systems to fulfill the 40-month pressure testing requirement.

Steam Generator Tube Examination

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

Break Exclusion Zone Examinations

Examinations were performed on welds located in the high energy break exclusion zone identified in Section 6.6.8 of the UFSAR. These examinations are listed in Appendix V.

Baseline Examinations

Appendix II identifies those components repaired or replaced during this outage that required baseline examination per ASME XI.

Heavy Load Lifting Devices

Surface examinations were performed on major load bearing welds on the reactor vessel internals lift rig and the reactor vessel head lift rig. All these examinations were found acceptable. These examinations were in accordance with the Duquesne Light Company response to Generic Letter 81-07, Control of Heavy Loads.

Snubber Examinations

Snubber examinations were performed this outage in accordance with Technical Specification 3/4.7.12. The results of the examinations are contained in the 2R05 Snubber Outage Summary Report.

Deficiency Resolution

All recorded deficiencies were evaluated and reported per administrative procedures. Appendix IV identifies the rejectable indications and notes the closing document.

NIS-2 Forms

Included as Appendix VII are the NIS-2 Forms associated with Repairs and Replacements.

APPENDIX I

CODE EXAMINATIONS

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: B02.040 B-B			
2RCS*SG21C-C-1	CIRCUMFERENTIAL WELD	UT95166	
** ASME ITEM NUMBER / EXAM CATEGORY: B03.140 B-D			
2RCS*SG21B-N-2AIR	NOZZLE INSIDE RADIUS	VT95314	
2RCS*SG21B-N-2BIR	NOZZLE INSIDE RADIUS	VT95314	
** ASME ITEM NUMBER / EXAM CATEGORY: B04.012 B-E			
2RCS*REV21-CRDM NOZZLES	CRDM NOZZLES	VT95405	
** ASME ITEM NUMBER / EXAM CATEGORY: B04.013 B-E			
2RCS*REV21-INST NOZZLES	INSTRUMENTATION NOZZLES	VT95408	
** ASME ITEM NUMBER / EXAM CATEGORY: B04.020 B-E			
2RCS*PRE21	HEATER PENETRATION WELDS	VT95407	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.010 B-G-1			
2RCS*REV21-NUT-39	BOLTING	MT95101	
2RCS*REV21-NUT-40	BOLTING	MT95101	
2RCS*REV21-NUT-41	BOLTING	MT95101	
2RCS*REV21-NUT-42	BOLTING	MT95101	
2RCS*REV21-NUT-43	BOLTING	MT95101	
2RCS*REV21-NUT-44	BOLTING	MT95101	
2RCS*REV21-NUT-45	BOLTING	MT95101	
2RCS*REV21-NUT-46	BOLTING	MT95101	
2RCS*REV21-NUT-47	BOLTING	MT95101	
2RCS*REV21-NUT-48	BOLTING	MT95101	
2RCS*REV21-NUT-49	BOLTING	MT95101	
2RCS*REV21-NUT-50	BOLTING	MT95101	
2RCS*REV21-NUT-51	BOLTING	MT95101	
2RCS*REV21-NUT-52	BOLTING	MT95101	
2RCS*REV21-NUT-53	BOLTING	MT95101	
2RCS*REV21-NUT-54	BOLTING	MT95101	
2RCS*REV21-NUT-55	BOLTING	MT95101	
2RCS*REV21-NUT-56	BOLTING	MT95101	
2RCS*REV21-NUT-57	BOLTING	MT95101	
2RCS*REV21-NUT-58	BOLTING	MT95101	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.030 B-G-1			
2RCS*REV21-STUD-39	BOLTING	UT95160 MT95100	
2RCS*REV21-STUD-40	BOLTING	UT95160 MT95100	
2RCS*REV21-STUD-41	BOLTING	UT95160 MT95100	
2RCS*REV21-STUD-42	BOLTING	UT95160 MT95100	
2RCS*REV21-STUD-43	BOLTING	UT95160 MT95100	
2RCS*REV21-STUD-44	BOLTING	UT95160 MT95100	
2RCS*REV21-STUD-45	BOLTING	UT95160 MT95100	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RCS*REV21-STUD-46	BOLTING	UT95160	
		MT95100	
2RCS*REV21-STUD-47	BOLTING	UT95160	
		MT95100	
2RCS*REV21-STUD-48	BOLTING	UT95154	
		MT95100	
2RCS*REV21-STUD-49	BOLTING	UT95154	
		MT95100	
2RCS*REV21-STUD-50	BOLTING	UT95154	
		MT95100	
2RCS*REV21-STUD-51	BOLTING	UT95106	EXAMINED IN PLACE
2RCS*REV21-STUD-52	BOLTING	UT95154	
		MT95100	
2RCS*REV21-STUD-53	BOLTING	UT95154	
		MT95100	
2RCS*REV21-STUD-54	BOLTING	UT95154	
		MT95100	
2RCS*REV21-STUD-55	BOLTING	UT95154	
		MT95100	
2RCS*REV21-STUD-56	BOLTING	UT95154	
		UT95100	
2RCS*REV21-STUD-57	BOLTING	UT95154	
		MT95100	
2RCS*REV21-STUD-58	BOLTING	UT95154	
		MT95100	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.050 B-G-1			
2RCS*REV21-WASHER-39	BOLTING	VT95366	
2RCS*REV21-WASHER-40	BOLTING	VT95366	
2RCS*REV21-WASHER-41	BOLTING	VT95366	
2RCS*REV21-WASHER-42	BOLTING	VT95366	
2RCS*REV21-WASHER-43	BOLTING	VT95366	
2RCS*REV21-WASHER-44	BOLTING	VT95366	
2RCS*REV21-WASHER-45	BOLTING	VT95366	
2RCS*REV21-WASHER-46	BOLTING	VT95366	
2RCS*REV21-WASHER-47	BOLTING	VT95366	
2RCS*REV21-WASHER-48	BOLTING	VT95366	
2RCS*REV21-WASHER-49	BOLTING	VT95366	
2RCS*REV21-WASHER-50	BOLTING	VT95366	
2RCS*REV21-WASHER-51	BOLTING	VT95366	
2RCS*REV21-WASHER-52	BOLTING	VT95366	
2RCS*REV21-WASHER-53	BOLTING	VT95366	
2RCS*REV21-WASHER-54	BOLTING	VT95366	
2RCS*REV21-WASHER-55	BOLTING	VT95366	
2RCS*REV21-WASHER-56	BOLTING	VT95366	
2RCS*REV21-WASHER-57	BOLTING	VT95366	
2RCS*REV21-WASHER-58	BOLTING	VT95366	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.180 B-G-1			
2RCS*P21A(F)-B01	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B02	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B03	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B04	MAIN FLANGE BOLT	UT95136	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RCS*P21A(F)-B05	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B06	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B07	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B08	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B09	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B10	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B11	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B12	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B13	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B14	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B15	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B16	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B17	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B18	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B19	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B20	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B21	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B22	MAIN FLANGE BOLT	UT95136	
2RCS*P21A(F)-B23	MAIN FLANGE BOLT	UT95136 UT95153	
2RCS*P21A(F)-B24	MAIN FLANGE BOLT	UT95136	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.210 B-G-1			
2RCS-MOV595-B-1 TO 24	2RCS-MOV595 STUDS & BOLTING	UT95172	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.220 B-G-1			
2RCS-MOV595	2RCS-MOV595 FLANGE SURFACE	VT95287	
** ASME ITEM NUMBER / EXAM CATEGORY: B06.230 B-G-1			
2RCS-MOV595-B-1 TO 24	2RCS-MOV595 NUTS,BUSHINGS & WASHERS	VT95292 VT95365 VT95365.	DR95-0057, BORIC ACID, CLOSING REPORT
** ASME ITEM NUMBER / EXAM CATEGORY: B07.030 B-G-2			
2RCS*SG21A-H-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-H-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RCS*SG21A-C-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
2RCS*SG21A-C-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT95301	
** ASME ITEM NUMBER / EXAM CATEGORY: B07.050 B-G-2			
107425-MJ-02-B-1	PIPE BOLTING STUD BOLTS	VT95289	
107425-MJ-02-B-2	PIPE BOLTING STUD BOLTS	VT95289	
107425-MJ-02-B-3	PIPE BOLTING STUD BOLTS	VT95289	
107425-MJ-02-B-4	PIPE BOLTING STUD BOLTS	VT95289	
107425-MJ-02-B-5	PIPE BOLTING STUD BOLTS	VT95289	
107425-MJ-02-B-6	PIPE BOLTING STUD BOLTS	VT95289	
107425-MJ-02-B-7	PIPE BOLTING STUD BOLTS	VT95289	
107425-MJ-02-B-8	PIPE BOLTING STUD BOLTS	VT95289	
107425-MJ-04-B-1	PIPE BOLTING STUD BOLTS	VT95288	
107425-MJ-04-B-2	PIPE BOLTING STUD BOLTS	VT95288	
107425-MJ-04-B-3	PIPE BOLTING STUD BOLTS	VT95288	
107425-MJ-04-B-4	PIPE BOLTING STUD BOLTS	VT95288	
107010-MJ-01-B-1	2RCS-FE481 STUD BOLTS	VT95272	
107010-MJ-01-B-2	2RCS-FE481 STUD BOLTS	VT95272	
107010-MJ-01-B-3	2RCS-FE481 STUD BOLTS	VT95272 VT95372	DR95-0055, BORIC ACID, CLOSING REPORT VT95-372.
107010-MJ-01-B-4	2RCS-FE481 STUD BOLTS	VT95272 VT95372	DR95-0055, BORIC ACID, CLOSING REPORT VT95-372.
107010-MJ-01-B-5	2RCS-FE481 STUD BOLTS	VT95272 VT95372	DR95-0055, BORIC ACID, CLOSING REPORT VT95-372.
107010-MJ-01-B-6	2RCS-FE481 STUD BOLTS	VT95272 VT95372	DR95-0055, BORIC ACID, CLOSING REPORT VT95-372.
107010-MJ-01-B-7	2RCS-FE481 STUD BOLTS	VT95272 VT95372	DR95-0055, BORIC ACID, CLOSING REPORT VT95-372.
107010-MJ-01-B-8	2RCS-FE481 STUD BOLTS	VT95272	
107015-MJ-01-B-1	2RCS-FE482 STUD BOLTS	VT95263	
107015-MJ-01-B-2	2RCS-FE482 STUD BOLTS	VT95263	
107015-MJ-01-B-3	2RCS-FE482 STUD BOLTS	VT95263	
107015-MJ-01-B-4	2RCS-FE482 STUD BOLTS	VT95263	
107015-MJ-01-B-5	2RCS-FE482 STUD BOLTS	VT95263	
107015-MJ-01-B-6	2RCS-FE482 STUD BOLTS	VT95263	
107015-MJ-01-B-7	2RCS-FE482 STUD BOLTS	VT95263	
107015-MJ-01-B-8	2RCS-FE482 STUD BOLTS	VT95262	
** ASME ITEM NUMBER / EXAM CATEGORY: B07.060 B-G-2			
2RCS*P21A(S)-B01	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B02	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B03	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B04	SEAL HOUSING BOLT	VT95298	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RCS*P21A(S)-B05	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B06	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B07	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B08	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B09	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B10	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B11	SEAL HOUSING BOLT	VT95298	
2RCS*P21A(S)-B12	SEAL HOUSING BOLT	VT95298	
2RCS*P21B(S)-B08	SEAL HOUSING BOLT	VT95284	
2RCS*P21B(S)-B09	SEAL HOUSING BOLT	VT95284	
2RCS*P21B(S)-B10	SEAL HOUSING BOLT	VT95284	
2RCS*P21B(S)-B11	SEAL HOUSING BOLT	VT95284	
2RCS*P21B(S)-B12	SEAL HOUSING BOLT	VT95284	
** ASME ITEM NUMBER / EXAM CATEGORY: B07.070 B-G-2			
2CHS-870-B-1 TO 16	2CHS-870 BOLTS AND NUTS	VT95267	DR95-0051, BORIC ACID, CLOSING REPORT VT95333 VT95333.
2CHS-MOV201-B-1 TO 8	2CHS-MOV201A STUDS AND NUTS	VT95302	
2RCS-MOV557B-B-1 TO 8	2RCS-MOV557B STUDS AND NUTS	VT95347	
2RCS-MOV557C-B-1 TO 8	2RCS-MOV557C STUDS AND NUTS	VT95266	
2RCS-MOV556C-B-1 TO 8	2RCS-MOV556C STUDS AND NUTS	VT95264	
2RCS-MOV587-B-1 TO 12	2RCS-MOV587 STUDS AND NUTS	VT95269	DR95-0053, BORIC ACID, CLOSING REPORT VT95365 VT95365.
2RCS-PCV455B-B-1 TO 8	2RCS-PCV455B STUDS AND NUTS	VT95307	
2RCS-PCV456-B-1 TO 6	2RCS-PCV456 STUDS AND NUTS	VT95295	
2RCS-MOV537-B-1 TO 14	2RCS-MOV537 STUDS AND NUTS	VT95330	
		UT95220	
2RCS-PCV455D-B-1 TO 6	2RCS-PCV455D STUDS AND NUTS	VT95296	
2RCS-PCV455C-B-1 TO 6	2RCS-PCV455C STUDS AND NUTS	VT95296	
110912-MJ1-B-01	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-02	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-03	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-04	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-05	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-06	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-07	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-08	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-09	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-10	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-11	BOLTING FOR 2RCS*RV551C	VT95300	
110912-MJ1-B-12	BOLTING FOR 2RCS*RV551C	VT95300	
2RCS*RV551B-B-01	VALVE BOLTING	VT95381	
2RCS*RV551B-B-02	VALVE BOLTING	VT95381	
2RCS*RV551B-B-03	VALVE BOLTING	VT95381	
2RCS*RV551B-B-04	VALVE BOLTING	VT95381	
2RCS*RV551B-B-05	VALVE BOLTING	VT95381	
2RCS*RV551B-B-06	VALVE BOLTING	VT95381	
2RCS*RV551B-B-07	VALVE BOLTING	VT95381	
2RCS*RV551B-B-08	VALVE BOLTING	VT95381	
2SIS-142-B-1 TO 18	2SIS-142 STUDS AND NUTS	VT95313	DR95-0061, BORIC ACID, CLOSING REPORT VT95372 VT95372.
2RHS-MOV720B-B-1 TO 18	2RHS-MOV720B STUDS AND NUTS	VT95270	DR95-0054, BORIC ACID, CLOSING REPORT VT95365 VT95365.

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2SIS-109-B-1 TO 16	2SIS-109 BOLTS	VT95257	
2SIS-552-B-1 TO 16	2SIS-552 BOLTS	VT95268	DR95-0052, BORIC ACID, CLOSING REPORT
		VT95365	VT95365.
2SIS-546-B-1 TO 16	2SIS-546 BOLTS	VT95265	
** ASME ITEM NUMBER / EXAM CATEGORY: B07.080 B-G-2			
2RCS*REV21-CONOSEAL-51	CONOSEAL ASSY	VT95262	
2RCS*REV21-CONOSEAL-53	CONOSEAL ASSY	VT95262	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.011 B-J			
2RCS-002-F03	PIPE WELD	UT95122	
		PT95153	
2RCS-008-3A-2	PIPE WELD	UT95121	
		PT95137	
2RCS-173-3D	PIPE WELD	UT95156	
		PT95178	
2RCS-215-F501	PIPE WELD	UT95137	
		PT95164	
2RCS-202-F501	PIPE WELD	UT95142	
		PT95164	
2RCS-172-1B-C	PIPE WELD	UT95143	
		PT95164	
2RCS-202-1C-2	PIPE WELD	UT95144	
		PT95164	
2RCS-103-F01	PIPE WELD	UT95139	
		PT95163	
2RCS-103-1B	PIPE WELD	UT95140	
		PT95163	
2RCS-103-F500	PIPE WELD	UT95138	
		PT95163	
2RCS-102-F01	PIPE WELD	UT95141	
		PT95162	
2SIS-069-1A	PIPE WELD	UT95147	
		PT95174	
2SIS-069-F506	PIPE WELD	UT95119	
		PT95139	
2SIS-287-F03	PIPE WELD	UT95120	
		PT95139	
2SIS-071-4A	PIPE WELD	UT95155	
		PT95182	
2SIS-288-F02	PIPE WELD	UT95107	
		PT95126	
		UT95118	
2SIS-271-F03	PIPE WELD	UT95125	
		PT95147	
2SIS-271-3A	PIPE WELD	UT95159	
		PT95183	
2SIS-271-F04	PIPE WELD	UT95126	
		PT95150	
2SIS-271-F05	PIPE WELD	UT95127	
		PT9T150	
2SIS-016-F02	PIPE WELD	UT95124	
		PT95152	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2SIS-267-F04	PIPE WELD	UT95135	
		PT95151	
2SIS-267-4B	PIPE WELD	UT95134	
		PT95151	
2SIS-267-F05	PIPE WELD	UT95133	
		PT95151	
2SIS-267-5B	PIPE WELD	UT95132	
		PT95151	
2SIS-267-F06	PIPE WELD	UT95131	
		PT95151	
2SIS-267-6B	PIPE WELD	UT95130	
		PT95142	
2SIS-025-1A	PIPE WELD	UT95129	
		PT95142	
2SIS-025-F02	PIPE WELD	UT95128	
		PT95142	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.021 B-J			
2CHS-142-13C-A	BUTT WELD	PT95144	
2CHS-142-13C-B	BUTT WELD	PT95144	
2CHS-098-F13	BUTT WELD	PT95181	
2CHS-098-13A	BUTT WELD	PT95181	
2CHS-098-13B	BUTT WELD	PT95181	
2CHS-098-13D	BUTT WELD	PT95181	
2CHS-098-F14	BUTT WELD	PT95181	
2CHS-098-14A	BUTT WELD	PT95181	
2CHS-098-F15	BUTT WELD	PT95181	
2CHS-098-15B-A	BUTT WELD	PT95181	
2CHS-443-3C	BUTT WELD	PT95160	
2CHS-443-3B	BUTT WELD	PT95160	
2CHS-443-3A	BUTT WELD	PT95160	
2CHS-140-F510	BUTT WELD	PT95113	
2CHS-140-1K	BUTT WELD	PT95113	
2CHS-140-F511A	BUTT WELD	PT95113	
2CHS-140-F03	BUTT WELD	PT95113	
2CHS-096-F511	BUTT WELD	PT95120	
2CHS-098-F500	BUTT WELD	PT95119	
2CHS-098-F400	BUTT WELD	PT95119	
2CHS-098-F501	BUTT WELD	PT95119	
2CHS-098-1C-C	BUTT WELD	PT95119	
2CHS-098-F02	BUTT WELD	PT95130	
2DGS-212-F406	BUTT WELD	PT95132	
2RCS-065-F08	BUTT WELD	PT95146	
2RCS-065-7A	BUTT WELD	PT95146	
2RCS-067-F04	BUTT WELD	PT95146	
2RCS-067-2K	BUTT WELD	PT95146	
2RCS-067-2J	BUTT WELD	PT95146	
2RCS-067-2H	BUTT WELD	PT95146	
2RCS-067-2G	BUTT WELD	PT95146	
2RCS-067-F500	BUTT WELD	PT95146	
2RCS-067-2E	BUTT WELD	PT95146	
2RCS-067-2D	BUTT WELD	PT95146	
2RCS-067-2C	BUTT WELD	PT95146	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RCS-067-2B	BUTT WELD	PT95145	
2RCS-067-2L	BUTT WELD	PT95145	
2RCS-067-2A	BUTT WELD	PT95145	
2RCS-067-1B	BUTT WELD	PT95149	
2RCS-067-1A	BUTT WELD	PT95149	
2RCS-062-8B-D	BUTT WELD	PT95140	
2RCS-062-F501	BUTT WELD	PT95140	
2RCS-062-9A-A	BUTT WELD	PT95140	
2RCS-062-F511	BUTT WELD	PT95140	
2RCS-062-F512	BUTT WELD	PT95140	
2RCS-062-F506A	BUTT WELD	PT95140	
2RCS-062-F513	BUTT WELD	PT95140	
2RCS-062-11A-A	BUTT WELD	PT95140	
2RCS-062-F505	BUTT WELD	PT95140	
2RCS-062-11B1-B	BUTT WELD	PT95140	
2RCS-062-F507	BUTT WELD	PT95140	
2RCS-109-F03	BUTT WELD	PT95165	
2RCS-109-F500	BUTT WELD	PT95165	
2RCS-109-F04	BUTT WELD	PT95165	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.032 B-J			
2RCS-009-2-6	PIPE WELD	PT95171	
2RCS-004-F508	PIPE WELD	PT95127	
2RCS-004-F506	PIPE WELD	PT95127	
2RCS-008-3A-4	PIPE WELD	PT95136	
2SIS-270-1C	PIPE WELD	PT95112	
2SIS-271-F505	PIPE WELD	PT95115	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.040 B-J			
2RCS-065-F04	SOCKET WELD	PT95169	
2RCS-065-F05	SOCKET WELD	PT95145	
2RCS-067-F03	SOCKET WELD	PT95145	
2RCS-067-F02	SOCKET WELD	PT95145	
2RCS-067-F01	SOCKET WELD	PT95148	
2RCS-062-F03	SOCKET WELD	PT95141	
2RCS-062-F503	SOCKET WELD	PT95140	
2RCS-062-F504	SOCKET WELD	PT95140	
2RCS-062-F06A	SOCKET WELD	PT95141	
2RCS-062-F07A	SOCKET WELD	PT95141	
2RCS-062-F08A	SOCKET WELD	PT95141	
2RHS-117-F408	SOCKET WELD	PT95166	
2SIS-116-1A	SOCKET WELD	PT95116	
2SIS-116-1B	SOCKET WELD	PT95116	
2RCS-065-F-C1B	SOCKET WELD	PT95168	
2DGS-212-F-1-C	SOCKET WELD	PT95132	
** ASME ITEM NUMBER / EXAM CATEGORY: B10.010 B-K-1			
2SIS-069-F800	WELDED ATTACHMENT FOR 2SIS-PSSH015B	PT95172	
2SIS-069-F801	WELDED ATTACHMENT FOR 2SIS-PSSH015A	PT95172	
2SIS-069-F802	WELDED ATTACHMENT FOR 2SIS-PSSH015A	PT95172	
2SIS-069-F803	WELDED ATTACHMENT FOR 2SIS-PSSH015B	PT95172	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: B12.050 B-M-2			
2RHS-MOV720B	VALVE BODY MOV - 10"	VT95321	
** ASME ITEM NUMBER / EXAM CATEGORY: B14.010 B-O			
2RCS*REV21-CRDM-43	CRDM HOUSING WELD	PT95186	
2RCS*REV21-CRDM-49	CRDM HOUSING WELD	UT95186	
2RCS*REV21-CRDM-61	CRDM HOUSING WELD	PT95186	
** ASME ITEM NUMBER / EXAM CATEGORY: C01.010 C-A			
2CHS*E23-W-2	SHELL NO.1 CIRCUMFERENTIAL WELD # 2	VT95409	
2CHS*E23-W-3	SHELL NO.1 CIRCUMFERENTIAL WELD # 3	VT95409	
2CHS*E23-W-6	SHELL NO.2 CIRCUMFERENTIAL WELD # 6	VT95409	
2CHS*E23-W-7	SHELL NO.2 CIRCUMFERENTIAL WELD # 7	VT95409	
2CHS*E23-W-10	SHELL NO.3 CIRCUMFERENTIAL WELD #10	VT95409	
2CHS*E23-W-11	SHELL NO.3 CIRCUMFERENTIAL WELD #11	VT95409	
** ASME ITEM NUMBER / EXAM CATEGORY: C01.020 C-A			
2RCS*SG21C-C-08	HEAD CIRCUMFERENTIAL WELD # 8	UT95164	
** ASME ITEM NUMBER / EXAM CATEGORY: C03.020 C-C			
2MSS-045-F800	WELDED ATTACHMENT FOR 2MSS-PSST142A	MT95106	
2MSS-045-F801	WELDED ATTACHMENT FOR 2MSS-PSST142B	MT95106	
2RSS-001-F813	WELDED ATTACHMENT FOR 2RSS-PSSH137A	PT95073	
2RSS-001-F814	WELDED ATTACHMENT FOR 2RSS-PSSH137A	PT95073	
2RSS-001-F812	WELDED ATTACHMENT FOR 2RSS-PSSH137B	PT95073	
2RSS-001-F815	WELDED ATTACHMENT FOR 2RSS-PSSH137B	PT95073	
2RSS-001-F804	WELDED ATTACHMENT FOR 2RSS-PSSP139A	PT95069	
2RSS-001-F805	WELDED ATTACHMENT FOR 2RSS-PSSP139A	PT95069	
2RSS-001-F808	WELDED ATTACHMENT FOR 2RSS-PSSP139A	PT95069	
2RSS-001-F809	WELDED ATTACHMENT FOR 2RSS-PSSP139A	PT95069	
2RSS-001-F806	WELDED ATTACHMENT FOR 2RSS-PSSP139B	PT95069	
2RSS-001-F807	WELDED ATTACHMENT FOR 2RSS-PSSP139B	PT95069	
2RSS-001-F810	WELDED ATTACHMENT FOR 2RSS-PSSP139B	PT95069	
2RSS-001-F811	WELDED ATTACHMENT FOR 2RSS-PSSP139B	PT95069	
2RSS-001-F802	WELDED ATTACHMENT FOR 2RSS-PSSH146A	PT95069	
2RSS-001-F803	WELDED ATTACHMENT FOR 2RSS-PSSH146A	PT95069	
2RSS-001-F800	WELDED ATTACHMENT FOR 2RSS-PSSH146B	PT95069	
2RSS-001-F801	WELDED ATTACHMENT FOR 2RSS-PSSH146B	PT95069	
2RSS-002-F809	WELDED ATTACHMENT FOR 2RSS-PSSH132Y	PT95067	
2RSS-002-F810	WELDED ATTACHMENT FOR 2RSS-PSSH132Y	PT95067	
2RSS-002-F811	WELDED ATTACHMENT FOR 2RSS-PSSH132Y	PT95067	
2RSS-002-F812	WELDED ATTACHMENT FOR 2RSS-PSSH132Y	PT95067	
2RSS-009-F801	WELDED ATTACHMENT FOR 2RSS-PSSH122Y	PT95082	
2RSS-009-F802	WELDED ATTACHMENT FOR 2RSS-PSSH122Y	PT95082	
2RSS-009-F803	WELDED ATTACHMENT FOR 2RSS-PSSH122Y	PT95082	
2RSS-009-F804	WELDED ATTACHMENT FOR 2RSS-PSSH122Y	PT95082	
2RSS-009-F805	WELDED ATTACHMENT FOR 2RSS-PSSP124A	PT95082	
2RSS-009-F807	WELDED ATTACHMENT FOR 2RSS-PSSP124A	PT95082	
2RSS-009-F809	WELDED ATTACHMENT FOR 2RSS-PSSP124A	PT95082	
2RSS-009-F812	WELDED ATTACHMENT FOR 2RSS-PSSP124A	PT95082	
2RSS-009-F806	WELDED ATTACHMENT FOR 2RSS-PSSP124B	PT95082	
2RSS-009-F808	WELDED ATTACHMENT FOR 2RSS-PSSP124B	PT95082	
2RSS-009-F810	WELDED ATTACHMENT FOR 2RSS-PSSP124B	PT95082	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RSS-009-F811	WELDED ATTACHMENT FOR 2RSS-PSSP124B	PT95082	
2RSS-010-F801	WELDED ATTACHMENT FOR 2RSS-PSSH127Y	PT95070	
2RSS-010-F802	WELDED ATTACHMENT FOR 2RSS-PSSH127Y	PT95070	
2RSS-010-F803	WELDED ATTACHMENT FOR 2RSS-PSSH127Y	PT95070	
2RSS-010-F804	WELDED ATTACHMENT FOR 2RSS-PSSH127Y	PT95070	
2RSS-010-F805	WELDED ATTACHMENT FOR 2RSS-PSSP129A	PT95070	
2RSS-010-F806	WELDED ATTACHMENT FOR 2RSS-PSSP129A	PT95070	
2RSS-010-F807	WELDED ATTACHMENT FOR 2RSS-PSSP129A	PT95070	
2RSS-010-F808	WELDED ATTACHMENT FOR 2RSS-PSSP129A	PT95070	
2RSS-010-F809	WELDED ATTACHMENT FOR 2RSS-PSSP129B	PT95070	
2RSS-010-F810	WELDED ATTACHMENT FOR 2RSS-PSSP129B	PT95070	
2RSS-010-F811	WELDED ATTACHMENT FOR 2RSS-PSSP129B	PT95070	
2RSS-010-F812	WELDED ATTACHMENT FOR 2RSS-PSSP129B	PT95070	
** ASME ITEM NUMBER / EXAM CATEGORY: C03.030 C-C			
2RSS*P21A-WS-4	INTEGRAL WELDED ATTCHMENT WELD # 4WS	PT95167	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.011 C-F-1			
2RHS-010-F10	BUTT WELD	UT95145 PT95143	
2RHS-18 -7C	BUTT WELD	UT95123 PT95157	
2RHS-018-F09A	BUTT WELD	UT95149 PT95170	
2RHS-18 -11A	BUTT WELD	UT95148 PT95170	
2RSS-001-F513	BUTT WELD	UT95065 PT95072	
2RSS-1 -3AA	BUTT WELD	UT95066 PT95068	
2RSS-2 -4BD	BUTT WELD	UT95067 PT95066	
2RSS-010-F04	BUTT WELD	UT95068 PT95071	
2SIS-11 -2A	BUTT WELD	UT95097 PT95109	
2SIS-011-F04	BUTT WELD	UT95098 PT95109	
2SIS-165-F01	BUTT WELD	UT95099 PT95111	
2SIS-010-F01	BUTT WELD	UT95100 PT95110	
2SIS-166-F04	BUTT WELD	UT95101 PT95118	
2SIS-009-F06	BUTT WELD	UT95104 PT95114	
2SIS-009-F501	BUTT WELD	UT95103 PT95114	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.021 C-F-1			
2CHS-070-F07	BUTT WELD	UT95076 PT95090	
2CHS-72-5A1F	BUTT WELD	UT95077	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2CHS-120-F05	BUTT WELD	PT95096 UT95078	
2CHS-80 -3AD	BUTT WELD	PT95091 UT95083	
2CHS-279-F500	BUTT WELD	PT95092 UT95073	
2CHS-071-F514	BUTT WELD	PT95086 UT95075	
2CHS-273-F505	BUTT WELD	PT95087 UT95074	
2CHS-120-F10	BUTT WELD	PT95087 UT95085	
2CHS-120-10A2-C	BUTT WELD	PT95106 UT95087	
2CHS-120-F538A	BUTT WELD	PT95102 UT95091	
2CHS-81 -11AC	BUTT WELD	PT95102 UT95086	
2CHS-346-F10	BUTT WELD	PT95107 UT95157	
2CHS-095-F17A	BUTT WELD	PT95177 UT95161	
2SIS-098-F04	BUTT WELD	PT95179 UT95079	
2SIS-087-F02	BUTT WELD	PT95093 UT95081	
2SIS-87 -3A4J	BUTT WELD	PT95097 UT95080	
2SIS-248-1AA	BUTT WELD	PT95089 UT95082	
2SIS-88 -4B	BUTT WELD	PT95088 UT95198	
2SIS-88 -8AA	BUTT WELD	PT95187 UT95092	
2SIS-094-F08	BUTT WELD	PT95099 UT95084	
2SIS-94 -10A	BUTT WELD	PT95105 UT95088	
2SIS-102-2AA	BUTT WELD	PT95101 UT95090	
2SIS-102-3A1D	BUTT WELD	PT95103 UT95089	
2SIS-109-F5A	BUTT WELD	PT95103 UT95105 PT95123	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.030 C-F-1			
2CHS-124-4C-B	SOCKET WELD	PT95094	
2CHS-077-F509	SOCKET WELD	PT95083	
2CHS-077-1C	SOCKET WELD	PT95083	
2CHS-079-F03	SOCKET WELD	PT95085	
2CHS-278-F401	SOCKET WELD	PT95084	
2CHS-124-F517	SOCKET WELD	PT95108	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2CHS-124-10A1C	SOCKET WELD	PT95100	
2CHS-483-F504	SOCKET WELD	PT95104	
2CHS-93 -1E	SOCKET WELD	PT95104	
2CHS-93 -1B	SOCKET WELD	PT95104	
2CHS-093-F500	SOCKET WELD	PT95104	
2CHS-094-F05	SOCKET WELD	PT95098	
2CHS-094-F500	SOCKET WELD	PT95098	
2CHS-94 -5BE	SOCKET WELD	PT95098	
2CHS-346-F46A	SOCKET WELD	PT95159	
2CHS-346-14	SOCKET WELD	PT95159	
2CHS-444-F01	SOCKET WELD	PT95161	
2CHS-95 -2	SOCKET WELD	PT95179	
2CHS-95 -5	SOCKET WELD	PT95179	
2CHS-95 -8	SOCKET WELD	PT95179	
2CHS-095-F11A	SOCKET WELD	PT95179	
2CHS-095-F21	SOCKET WELD	PT95179	
2CHS-25 -F10	SOCKET WELD	PT95131	
2SIS-103-7	SOCKET WELD	PT95122	
2SIS-109-F10A	SOCKET WELD	PT95124	
2SIS-260-3	SOCKET WELD	PT95125	
2SIS-261-5	SOCKET WELD	PT95121	
2SIS-111-F33	SOCKET WELD	PT95180	
2SIS-258-F12A	SOCKET WELD	PT95117	
2SIS-258-F14	SOCKET WELD	PT95117	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.041 C-F-1			
2CHS-288-1A1A1AF	BRANCH CONN. WELD	PT95095	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.051 C-F-2			
2FWS-105-F01	BUTT WELD	UT95230	
		MT95119	
2FWS-105-F03	BUTT WELD	UT95232	
		MT95119	
2FWS-022-F08	BUTT WELD	UT95165	
		MT95095	
2MSS-171-F01	BUTT WELD	UT95199	
		MT95106	
2MSS-043-F03	BUTT WELD	UT95163	
		MT95092	
2SVS-011-F07	BUTT WELD	UT95173	
		MT95097	
2SVS-12 -7C	BUTT WELD	UT95167	
		MT95097	
2SVS-012-F500	BUTT WELD	UT95168	
		MT95097	
2SVS-014-F08A	BUTT WELD	UT95174	
		MT95096	
2SVS-15 -6C	BUTT WELD	UT95179	
		MT95099	
** ASME ITEM NUMBER / EXAM CATEGORY: C06.010 C-G			
2RSS*P21A-W-09	PUMP CASING WELD # 9	VT95353	
2RSS*P21A-W-10	PUMP CASING WELD #10	VT95353	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RSS*P21A-W-11	PUMP CASING WELD #11	VT95353	
2RSS*P21A-W-12	PUMP CASING WELD #12	VT95353	
2RSS*P21A-W-13	PUMP CASING WELD #13	VT95353	
2RSS*P21A-W-15	PUMP CASING WELD #15	VT95353	
2RSS*P21A-W-16	PUMP CASING WELD #16	VT95353	
2RSS*P21A-W-17	PUMP CASING WELD #17	VT95353	
2RSS*P21A-W-18	PUMP CASING WELD #18	VT95353	
** ASME ITEM NUMBER / EXAM CATEGORY: D01.020 D-A			
2CHS*T21A-W-3	INTEGRAL SUPPORT ATTACHMENT - "W3"	VT95379	
2CHS*T21A-W-6	INTEGRAL SUPPORT ATTACHMENT - "W6"	VT95379	
** ASME ITEM NUMBER / EXAM CATEGORY: D02.020 D-B			
2HVC*REF24A-W-1	INTEGRAL ATTACHMENT	VT95168	
2SWS-113-F-500	WELDED ATTACHMENT FOR 2SWS-PSR021	VT95229	
2SWS-113-F-501	WELDED ATTACHMENT FOR 2SWS-PSR021	VT95229	
2SWS-115-F-500	WELDED ATTACHMENT FOR 2SWS-PSR023	VT95241	
2SWS-115-F-501	WELDED ATTACHMENT FOR 2SWS-PSR023	VT95241	
2SWS-114-F-500	WELDED ATTACHMENT FOR 2SWS-PSR022	VT95241	
2SWS-114-F-501	WELDED ATTACHMENT FOR 2SWS-PSR022	VT95241	
2SWS-143-F-501	WELDED ATTACHMENT FOR 2SWS-PSR025	VT95243	
2SWS-143-F-502	WELDED ATTACHMENT FOR 2SWS-PSR025	VT95243	
2SWS-143-F-503	WELDED ATTACHMENT FOR 2SWS-PSR025	VT95243	
2SWS-198-F-500	WELDED ATTACHMENT FOR 2SWS-PSR152	VT95242	
2SWS-198-F-501	WELDED ATTACHMENT FOR 2SWS-PSR153	VT95242	
2SWS-199-F-500	WELDED ATTACHMENT FOR 2SWS-PSR156	VT95240	
2SWS-199-F-503	WELDED ATTACHMENT FOR 2SWS-PSR155	VT95240	
2SWS-581-F-801	WELDED ATTACHMENT FOR 2SWS-PSA820Y	VT95166	
2SWS-582-F-802	WELDED ATTACHMENT FOR 2SWS-PSA815Y	VT95165	
2SWS-135-F-801	WELDED ATTACHMENT FOR 2SWS-PSA819Y	VT95164	
2SWS-134-F-801	WELDED ATTACHMENT FOR 2SWS-PSA818Y	VT95163	
2SWS-185-F-513	WELDED ATTACHMENT FOR 2SWS-PSR218	VT95230	
2SWS-185-F-514	WELDED ATTACHMENT FOR 2SWS-PSR218	VT95230	
2SWS-185-F-515	WELDED ATTACHMENT FOR 2SWS-PSR218	VT95230	
2SWS-185-F-516	WELDED ATTACHMENT FOR 2SWS-PSR218	VT95230	
2SWS-188-F-803	WELDED ATTACHMENT FOR 2SWS-PSR210	VT95231	
2SWS-188-F-804	WELDED ATTACHMENT FOR 2SWS-PSR210	VT95231	
2SWS-188-F-806	WELDED ATTACHMENT FOR 2SWS-PSR210	VT95231	
2SWS-188-F-812	WELDED ATTACHMENT FOR 2SWS-PSR210	VT95231	
2SWS-302-F-800	WELDED ATTACHMENT FOR 2SWS-PSR054	VT95323	
2SWS-302-F-801	WELDED ATTACHMENT FOR 2SWS-PSR054	VT95323	
2SWS-302-F-802	WELDED ATTACHMENT FOR 2SWS-PSR054	VT95323	
2SWS-302-F-803	WELDED ATTACHMENT FOR 2SWS-PSR054	VT95323	
2SWS-302-F-804	WELDED ATTACHMENT FOR 2SWS-PSA053	VT95323	
2SWS-327-F-800	WELDED ATTACHMENT FOR 2SWS-PSA027X	VT95324	
2SWS-327-F-802	WELDED ATTACHMENT FOR 2SWS-PSR153X	VT95325	
2SWS-327-F-803	WELDED ATTACHMENT FOR 2SWS-PSR153X	VT95325	
2SWS-327-F-804	WELDED ATTACHMENT FOR 2SWS-PSR153X	VT95325	
2SWS-327-F-805	WELDED ATTACHMENT FOR 2SWS-PSR153X	VT95325	
2SWS-330-F-800	WELDED ATTACHMENT FOR 2SWS-PSR060X	VT95326	
2SWS-330-F-801	WELDED ATTACHMENT FOR 2SWS-PSR060X	VT95326	
2SWS-330-F-802	WELDED ATTACHMENT FOR 2SWS-PSR060X	VT95326	
2SWS-330-F-803	WELDED ATTACHMENT FOR 2SWS-PSR060X	VT95326	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2SWS-330-F-804	WELDED ATTACHMENT FOR 2SWS-PSA062	VT95326	
2SWS-330-F-805	WELDED ATTACHMENT FOR 2SWS-PSA913X	VT95327	
2SWS-300-F-815	WELDED ATTACHMENT FOR 2SWS-PSR459	VT95338	
2SWS-300-F-816	WELDED ATTACHMENT FOR 2SWS-PSR459	VT95338	
2SWS-300-F-817	WELDED ATTACHMENT FOR 2SWS-PSR459	VT95338	
2SWS-300-F-818	WELDED ATTACHMENT FOR 2SWS-PSR459	VT95338	
2SWS-348-F-801	WELDED ATTACHMENT FOR 2SWS-PSA928X	VT95340	
2SWS-348-F-802	WELDED ATTACHMENT FOR 2SWS-PSA146	VT95340	
2SWS-366-F-801	WELDED ATTACHMENT FOR 2SWS-PSR063	VT95328	
2SWS-366-F-802	WELDED ATTACHMENT FOR 2SWS-PSR063	VT95328	
2SWS-366-F-803	WELDED ATTACHMENT FOR 2SWS-PSR063	VT95328	
2SWS-366-F-804	WELDED ATTACHMENT FOR 2SWS-PSR063	VT95328	
2SWS-366-F-805	WELDED ATTACHMENT FOR 2SWS-PSA065	VT95328	
2SWS-301-F-805	WELDED ATTACHMENT FOR 2SWS-PSR435	VT95339	
2SWS-301-F-806	WELDED ATTACHMENT FOR 2SWS-PSR435	VT95339	
2SWS-301-F-807	WELDED ATTACHMENT FOR 2SWS-PSR435	VT95339	
2SWS-301-F-808	WELDED ATTACHMENT FOR 2SWS-PSR435	VT95339	
2SWS-301-F-804	WELDED ATTACHMENT FOR 2SWS-PSA473X	VT95339	
2SWS-403-F-804	WELDED ATTACHMENT FOR 2SWS-PSA306X	VT95341	
2SWS-403-F-805	WELDED ATTACHMENT FOR 2SWS-PSST433A	VT95341	
2SWS-403-F-806	WELDED ATTACHMENT FOR 2SWS-PSST433A	VT95341	
2SWS-403-F-807	WELDED ATTACHMENT FOR 2SWS-PSST433A	VT95341	
2SWS-403-F-808	WELDED ATTACHMENT FOR 2SWS-PSST433A	VT95341	
2SWS-403-F-809	WELDED ATTACHMENT FOR 2SWS-PSST433B	VT95341	
2SWS-403-F-810	WELDED ATTACHMENT FOR 2SWS-PSST433B	VT95341	
2SWS-403-F-811	WELDED ATTACHMENT FOR 2SWS-PSST433B	VT95341	
2SWS-403-F-812	WELDED ATTACHMENT FOR 2SWS-PSST433B	VT95341	
2SWS-403-F-813	WELDED ATTACHMENT FOR 2SWS-PSA143	VT95341	
2SWS-403-F-800	WELDED ATTACHMENT FOR 2SWS-PSR156X	VT95342	
2SWS-403-F-801	WELDED ATTACHMENT FOR 2SWS-PSR156X	VT95342	
2SWS-403-F-802	WELDED ATTACHMENT FOR 2SWS-PSR156X	VT95342	
2SWS-403-F-803	WELDED ATTACHMENT FOR 2SWS-PSR156X	VT95342	
2SWS-329-F808	WELDED ATTACHMENT FOR 2SWS-PSR051	VT95343	
2SWS-329-F809	WELDED ATTACHMENT FOR 2SWS-PSR051	VT95343	
** ASME ITEM NUMBER / EXAM CATEGORY: D02.030 D-B			
2SWS-072-F-800	WELDED ATTACHMENT FOR 2SWS-PSST371A	VT95196	
2SWS-072-F-801	WELDED ATTACHMENT FOR 2SWS-PSST371B	VT95196	
2SWS-072-F-802	WELDED ATTACHMENT FOR 2SWS-PSST371A	VT95196	
2SWS-072-F-803	WELDED ATTACHMENT FOR 2SWS-PSST371B	VT95196	
2SWS-072-F-804	WELDED ATTACHMENT FOR 2SWS-PSST371A	VT95196	
2SWS-072-F-805	WELDED ATTACHMENT FOR 2SWS-PSST371B	VT95196	
2SWS-072-F-806	WELDED ATTACHMENT FOR 2SWS-PSST371A	VT95196	
2SWS-072-F-807	WELDED ATTACHMENT FOR 2SWS-PSST371B	VT95196	
2SWS-073-F-800	WELDED ATTACHMENT FOR 2SWS-PSST372A	VT95193	
2SWS-073-F-801	WELDED ATTACHMENT FOR 2SWS-PSST372A	VT95193	
2SWS-073-F-802	WELDED ATTACHMENT FOR 2SWS-PSST372A	VT95193	
2SWS-073-F-803	WELDED ATTACHMENT FOR 2SWS-PSST372A	VT95193	
2SWS-073-F-804	WELDED ATTACHMENT FOR 2SWS-PSST372B	VT95193	
2SWS-073-F-805	WELDED ATTACHMENT FOR 2SWS-PSST372B	VT95193	
2SWS-073-F-806	WELDED ATTACHMENT FOR 2SWS-PSST372B	VT95193	
2SWS-073-F-807	WELDED ATTACHMENT FOR 2SWS-PSST372B	VT95193	
2SWS-074-F-802	WELDED ATTACHMENT FOR 2SWS-PSSP770A	VT95194	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2SWS-074-F-803	WELDED ATTACHMENT FOR 2SWS-PSSP770A	VT95194	
2SWS-074-F-804	WELDED ATTACHMENT FOR 2SWS-PSSP770A	VT95194	
2SWS-074-F-805	WELDED ATTACHMENT FOR 2SWS-PSSP770A	VT95194	
2SWS-074-F-806	WELDED ATTACHMENT FOR 2SWS-PSSP770B	VT95194	
2SWS-074-F-807	WELDED ATTACHMENT FOR 2SWS-PSSP770B	VT95194	
2SWS-074-F-808	WELDED ATTACHMENT FOR 2SWS-PSSP770B	VT95194	
2SWS-074-F-809	WELDED ATTACHMENT FOR 2SWS-PSSP770B	VT95194	
2SWS-075-F-800	WELDED ATTACHMENT FOR 2SWS-PSSP773A	VT95195	
2SWS-075-F-801	WELDED ATTACHMENT FOR 2SWS-PSSP773A	VT95195	
2SWS-075-F-802	WELDED ATTACHMENT FOR 2SWS-PSSP773A	VT95195	
2SWS-075-F-803	WELDED ATTACHMENT FOR 2SWS-PSSP773A	VT95195	
2SWS-075-F-804	WELDED ATTACHMENT FOR 2SWS-PSSP773B	VT95195	
2SWS-075-F-805	WELDED ATTACHMENT FOR 2SWS-PSSP773B	VT95195	
2SWS-075-F-806	WELDED ATTACHMENT FOR 2SWS-PSSP773B	VT95195	
2SWS-075-F-807	WELDED ATTACHMENT FOR 2SWS-PSSP773B	VT95195	
** ASME ITEM NUMBER / EXAM CATEGORY: D03.020 D-C			
2FNC-006-F-800	WELDED ATTACHMENT FOR 2FNC-PSR177	VT95169	
2FNC-006-F-801	WELDED ATTACHMENT FOR 2FNC-PSR177	VT95169	
2FNC-006-F-802	WELDED ATTACHMENT FOR 2FNC-PSR177	VT95169	
2FNC-006-F-803	WELDED ATTACHMENT FOR 2FNC-PSR177	VT95169	
2FNC-113-F-800	WELDED ATTACHMENT FOR 2FNC-PSR161	VT95161	
2FNC-113-F-801	WELDED ATTACHMENT FOR 2FNC-PSR161	VT95161	
2FNC-113-F-802	WELDED ATTACHMENT FOR 2FNC-PSR161	VT95161	
2FNC-113-F-803	WELDED ATTACHMENT FOR 2FNC-PSR161	VT95162	
** ASME ITEM NUMBER / EXAM CATEGORY: D03.040 D-C			
2FNC-005-F-800	WELDED ATTACHMENT FOR 2FNC-PSSH175	VT95161	
2FNC-005-F-801	WELDED ATTACHMENT FOR 2FNC-PSSH175	VT95161	
2FNC-005-F-802	WELDED ATTACHMENT FOR 2FNC-PSSH175	VT95161	
2FNC-005-F-803	WELDED ATTACHMENT FOR 2FNC-PSSH175	VT95161	
2FNC-004-F-800	WELDED ATTACHMENT FOR 2FNC-PSSH178	VT95161	
2FNC-004-F-801	WELDED ATTACHMENT FOR 2FNC-PSSH178	VT95161	
2FNC-004-F-802	WELDED ATTACHMENT FOR 2FNC-PSSH178	VT95161	
2FNC-004-F-803	WELDED ATTACHMENT FOR 2FNC-PSSH178	VT95161	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.10A F-A			
2SIS-PSA103X	SUPPORT	VT95290	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.10R F-A			
2CHS-PSR034	SUPPORT	VT95353	
2CHS-PSR049	SUPPORT	VT95291	
2CHS-PSR653X	SUPPORT	VT95303	
2CHS-PSR654X	SUPPORT	VT95303	
2CHS-PSR067A	SUPPORT	VT95255	
2CHS-PSR066X	SUPPORT	VT95255	
2RCS-PSR033	SUPPORT	VT95332	
2RCS-PSR036	SUPPORT	VT95334	
2SIS-PRR816	SUPPORT	VT95349	
2SIS-PSR105X	SUPPORT	VT95290	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.10S F-A			
2CHS-PSSH050	SUPPORT	VT95318	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RCS-PSSH032X	SUPPORT	VT95332	
2RCS-PSSH052	SUPPORT	VT95309	DR 95-0060, BENT ROD. REPLACED, VT95-377.
		VT95377	
2SIS-PSSH012A	SUPPORT	VT95308	
2SIS-PSSH011A	SUPPORT	VT95348	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.10T F-A			
2CHS-PSST044	SUPPORT	VT95345	
2CHS-PSST052	SUPPORT	VT95351	
2RCS-PSST024	SUPPORT	VT95312	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20A F-A			
2CHS-PSA207X	SUPPORT	VT95356	
2SIS-PSA282X	SUPPORT	VT95335	
2SIS-PSA220	SUPPORT	VT95259	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20R F-A			
2CHS-PSR066	SUPPORT	VT95306	
2CHS-PSR253Y	SUPPORT	VT95209	
2CHS-PSR203	SUPPORT	VT95246	
2CHS-PSR633R	SUPPORT	VT95217	
2RSS-PSR108	SUPPORT	VT95206	
2SIS-PSR017	SUPPORT	VT95212	
2SIS-PSR012	SUPPORT	VT95212	
2SIS-PSR083Y	SUPPORT	BT95211	
2SIS-PSR020	SUPPORT	VT95211	
2SIS-PSR064	SUPPORT	VT95245	
2SIS-PSR137Y	SUPPORT	VT95216	
2SIS-PSR150	SUPPORT	VT95228	
2SIS-PSR089R	SUPPORT	VT95355	
2SIS-PSR642	SUPPORT	VT95344	
2SIS-PSR667	SUPPORT	VT95336	
2SIS-PSR038A	SUPPORT	VT95258	
2SIS-PSR371X	SUPPORT	VT95256	
2SVS-PSR019	SUPPORT	VT95247	
2FWE-PSR340X	SUPPORT	VT95201	
2FWE-PSR053Y	SUPPORT	VT95202	
2FWE-PSR048Y	SUPPORT	VT95203	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20S F-A			
2MSS-PSSH005A	SUPPORT	VT95322	
2SIS-PSSH359Y	SUPPORT	VT95210	
2SVS-PSSH661	SUPPORT	VT95424	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20T F-A			
2MSS-PSST142B	SUPPORT	VT95373	
2RHS-PSST506X	SUPPORT	VT95350	
2SIS-PSST159	SUPPORT	VT95215	
2SIS-PSST037B	SUPPORT	VT95251	
2FWE-PSST362X	SUPPORT	VT95202	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.30A F-A			
2FWE-PSA002C	SUPPORT	VT95208	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: F01.30R F-A			
2CCP-PSR112	SUPPORT	VT95224	
2CCP-PSR104	SUPPORT	VT95221	
2CCP-PSR089	SUPPORT	VT95226	
2CCP-PSR008	SUPPORT	VT95225	
2CCP-PSR058	SUPPORT	VT95222	
2CCP-PSR081	SUPPORT	VT95227	
2CCP-PSR438X	SUPPORT	VT95337	
2FWE-PSR059Y	SUPPORT	VT95388	
2FWE-PSR004C	SUPPORT	VT95207	
2HVC-PSR007	SUPPORT	VT95167	
2SWS-PSR023	SUPPORT	VT95241	
2SWS-PSR130Y	SUPPORT	VT95204	
2SWS-PSR123Y	SUPPORT	VT95197	
2SWS-PSR210	SUPPORT	VT95231	
2SWS-PSR063	SUPPORT	VT95329	
2FNC-PSR161	SUPPORT	VT95162	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.30S F-A			
2FNC-PSSH178	SUPPORT	VT95186	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.30T F-A			
2CCP-PSST094Y	SUPPORT	VT95223	
2FWE-PSST349X	SUPPORT	VT95389	
2MSS-PSST491	SUPPORT	VT95200	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.40E F-A			
2RCS*P21A-SUPP	INTERMEDIATE SUPPORT	VT95315	
2RCS*REV21-CAVLIN-A	CAVITY LINER LUGS	VT95262	
2RCS*REV21-CAVLIN-B	CAVITY LINER LUGS	VT95262	
2RCS*REV21-CAVLIN-C	CAVITY LINER LUGS	VT95262	
2RCS*REV21-CAVLIN-D	CAVITY LINER LUGS	VT95262	
2RCS*REV21-CAVLIN-E	CAVITY LINER LUGS	VT95262	
2RCS*REV21-CAVLIN-F	CAVITY LINER LUGS	VT95262	
2HVC*REF24A-SPT-1	SUPPORT	VT95168	
2RCS*REV21-SHRD-SUP-1	COOLING SHROUD SUP LUG 30 DEG AXIS	VT95262	
2RCS*REV21-SHRD-SUP-2	COOLING SHROUD SUP LUG 150 DEG AXIS	VT95262	
2RCS*REV21-SHRD-SUP-3	COOLING SHROUD SUP LUG 270 DEG AXIS	VT95262	
2FNC*P21A-SUP	PUMP SUPPORT	VT95169	
2FNC*E21A-SUP	HEAT EXCHANGER SUPPORT	VT95169	
2QSS*P21B-SUP	PUMP SUPPORT	VT95205	
2CCP*P21B-SUP	PUMP SUPPORT	VT95374	
2FWE*P23B-SUP	PUMP SUPPORT	VT95199	
2FWE*P22-SUP	PUMP SUPPORT	VT95198	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.40E F-1			
2RCS*REV21-SUP-SKT	REACTOR VESSEL SUPPORT SKIRT	VT95244	
** ASME ITEM NUMBER / EXAM CATEGORY: IN90-29			
2RCS*RVH-INTERIOR	CLOSURE HEAD INTERIOR	VT95331	
** ASME ITEM NUMBER / EXAM CATEGORY: NR0612			
RV HEAD LIFT RIG		MT95087	

APPENDIX I CODE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
RV INTERNALS LIFT RIG 2RCS*RVH-LUG-1	RV HEAD LUG #1 60 DEG AXIS	MT95088 MT95108 MT95102	

APPENDIX II

BASELINE EXAMINATIONS

APPENDIX II BASELINE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: B07.030 B-G-2			
2RCS*SG21B-M-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT95275 VT95286	DR 95-0056, DAMAGED THREADS-> REPLACED.
2RCS*SG21B-M-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT95275 VT95289	DR 95-0056, DAMAGED THREADS-> REPLACED.
** ASME ITEM NUMBER / EXAM CATEGORY: B07.060 B-G-2			
2RCS*P21B(S)-B01	SEAL HOUSING BOLT	VT95284 VT95294	DR 95-0058, WASTAGE. BOLTING REPLACED.
2RCS*P21B(S)-B02	SEAL HOUSING BOLT	VT95284 VT95294	DR 95-0058, WASTAGE. BOLTING REPLACED.
2RCS*P21B(S)-B03	SEAL HOUSING BOLT	VT95284 VT95294	DR 95-0058, WASTAGE. BOLTING REPLACED.
2RCS*P21B(S)-B04	SEAL HOUSING BOLT	VT95284 VT95294	DR 95-0058, WASTAGE. BOLTING REPLACED.
2RCS*P21B(S)-B05	SEAL HOUSING BOLT	VT95284 VT95294	DR 95-0058, WASTAGE. BOLTING REPLACED.
2RCS*P21B(S)-B06	SEAL HOUSING BOLT	VT95284 VT95294	DR 95-0058, WASTAGE. BOLTING REPLACED.
2RCS*P21B(S)-B07	SEAL HOUSING BOLT	VT95284 VT95294	DR 95-0058, WASTAGE. BOLTING REPLACED.
** ASME ITEM NUMBER / EXAM CATEGORY: C05.051 C-F-2			
2SVS-014-F700	BUTT WELD	UT95219 MT95105	VALVE REPLACED, DCP 1769.
2SVS-014-F701	BUTT WELD	UT95218 MT95105	VALVE REPLACED, DCP 1769.
2SVS-015-F701	BUTT WELD	UT95226 MT95116	VALVE REPLACED, DCP 1769.
2SVS-015-F702	BUTT WELD	UT95227 MT95116	VALVE REPLACED, DCP 1769.
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20A F-A			
2FWE-PSA011	SUPPORT	VT95371	SUPPORT MODIFIED, DCP 2142.
2FWE-PSA028	SUPPORT	VT95371	SUPPORT MODIFIED, DCP 2142.
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20R F-A			
2FWE-PSR030X	SUPPORT	VT95371	SUPPORT MODIFIED, DCP 2142.
2FWE-PSR012B	SUPPORT	VT95371	SUPPORT MODIFIED, DCP 2142.

APPENDIX III

ADDITIONAL AND SUCCESSIVE EXAMINATIONS

APPENDIX III ADDITIONAL AND SUCCESSIVE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY:			
2RCS-PSSP006A	SNUBBER	VT95334	ADDITIONAL EXAM, DR950060.
2RCS-PSSP007X	SNUBBER	VT95334	ADDITIONAL EXAM, DR950063.
2RCS-PSSP898	SNUBBER	VT95334	ADDITIONAL EXAM, DR950063.
2RCS-PSSP030X	SNUBBER	VT95334	ADDITIONAL EXAM, DR950063.
2RCS-PSSP031X	SNUBBER	VT95334	ADDITIONAL EXAM, DR950063.
2RCS-PSSP022X	SNUBBER	VT95335	ADDITIONAL EXAM, DR950063.
2RCS-PSSP022Y	SNUBBER	VT95334	ADDITIONAL EXAM, DR950063.
2RCS-PSSP023X	SNUBBER	VT95334	ADDITIONAL EXAM, DR950063.
** ASME ITEM NUMBER / EXAM CATEGORY: B07.030 B-G-2			
2RCS*SG21C-H-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-H-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT95286	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
2RCS*SG21C-C-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT95279	ADDITIONAL EXAM, DR950056.
** ASME ITEM NUMBER / EXAM CATEGORY: B07.060 B-G-2			
2RCS*P21C(S)-B01	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B02	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B03	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B04	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.

APPENDIX III ADDITIONAL AND SUCCESSIVE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RCS*P21C(S)-B05	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B06	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B07	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B09	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B10	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B11	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
2RCS*P21C(S)-B12	SEAL HOUSING BOLT	VT95299	ADDITIONAL EXAM. DR 95-0059, BORIC ACID, VT95305 CLOSING REPORT VT95-305.
** ASME ITEM NUMBER / EXAM CATEGORY: F01.10S F-A			
2RCS-PSSH005	SUPPORT	VT95311	SUCCESSIVE EXAM.
2RCS-PSSH034	SUPPORT	VT95319	ADDITIONAL EXAM, DR950060.
2RCS-PSSH035A	SUPPORT	VT95319	ADDITIONAL EXAM, DR950060.
2RCS-PSSH035B	SUPPORT	VT95319	ADDITIONAL EXAM, DR950060.
2RCS-PSSH046	SUPPORT	VT95319	ADDITIONAL EXAM, BENT ROD, DR95-0063. VT95377 REPLACED, VT95-377.
** ASME ITEM NUMBER / EXAM CATEGORY: F01.10T F-A			
2RCS-PSST053	SUPPORT	VT95319	ADDITIONAL EXAM, DR950060.
** ASME ITEM NUMBER / EXAM CATEGORY: F01.20T F-A			
2QSS-PSST174A	SUPPORT	VT95214	SUCCESSIVE EXAM.
2QSS-PSST174B	SUPPORT	VT95214	SUCCESSIVE EXAM.

APPENDIX IV

DEFICIENCY REPORT

APPENDIX IV DEFICIENCY REPORT

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT	REJECTING REPORT	DR NUMBER	DESCRIPTION	MWR NUMBER	CLOSING DOCUMENT
2CHS-870-B-1 TO 16	VT95-267	95-0051	BORIC ACID RESIDUE		VT95-333
2SIS-552-B-1 TO 16	VT95-268	95-0052	BORIC ACID RESIDUE		VT95-365
2RCS-MOV587-B-1 TO 12	VT95-269	95-0053	BORIC ACID RESIDUE		VT95-365
2RHS-MOV720B B-1 TO 18	VT95-270	95-0054	BORIC ACID RESIDUE		VT95-365
107010-MJ-01-B-3 TO 7	VT95-272	95-0055	BORIC ACID RESIDUE		VT95-372
2RCS-SG21B-H-12 AND 16	VT95-275	95-0056	DAMAGED THREADS		VT95-286
2RCS-MOV-585-BOLTING	VT95-293	95-0057	BORIC ACID RESIDUE		VT95-365
2RCS-P21B-(S)-BOLTING	VT95-284	95-0058	WASTAGE		VT95-294
2RCS-P21C-(S)-BOLTING	VT95-299	95-0059	BORIC ACID RESIDUE		VT95-305
2RCS-PSSH-052	VT95-309	95-0060	BENT ROD	041268	VT95-377
2SIS-142-BOLTING	VT95-313	95-0061	BORIC ACID RESIDUE		VT95-372
2RCS-PSSH-046	VT95-319	95-0063	BENT ROD	041339	VT95-377

APPENDIX V

BREAK EXCLUSION

ZONE EXAMINATIONS

APPENDIX V BREAK EXCLUSION ZONE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: B.E.Z.			
2FWS-22 -1A	BRANCH CONN. WELD	MT95119	
2MSS-171-3C	BRANCH CONN. WELD	MT95106	
2MSS-171-3A	BRANCH CONN. WELD	MT95106	
2SVS-044-F510	BUTT WELD	UT95094	
2SVS-044-F511	BUTT WELD	UT95095	
2SVS-044-F512	BUTT WELD	UT95096	
2FWS-011-F04	BUTT WELD	UT95108	
2FWS-011-F505	BUTT WELD	UT95109	
2FWS-011-F503	BUTT WELD	UT95110	
2FWS-011-F05	BUTT WELD	UT951.1	
2FWS-011-F06	BUTT WELD	UT95112	
2FWS-016-F04	BUTT WELD	UT95113	
2FWS-016-F501	BUTT WELD	UT95114	
2FWS-016-F500	BUTT WELD	UT95115	
2FWS-016-5AD	BUTT WELD	UT95116	
2FWS-016-F06	BUTT WELD	UT95117	
2FWS-021-F03	BUTT WELD	UT95212	
2FWS-21 -5A1B	BUTT WELD	UT95213	
2FWS-021-F500	BUTT WELD	UT95214	
2FWS-21 -4A1D	BUTT WELD	UT95215	
2FWS-021-F05	BUTT WELD	UT95216	
2MSS-001-F501	BUTT WELD	UT95171	
2MSS-002-F500	BUTT WELD	UT95170	
2MSS-003-F500	BUTT WELD	UT95169	
2MSS-003-1AB	LONGITUDINAL WELD	UT95202	
2SDS-5 - 36	SOCKET WELD	PT95184	
2SDS-5 - 35	SOCKET WELD	PT95184	
2SDS-5 - 33	SOCKET WELD	PT95184	
2SDS-5 - 34	SOCKET WELD	PT95184	
2SDS-005- 32	SOCKET WELD	PT95184	
2SDS-005- 31	SOCKET WELD	PT95184	
2SDS-5 - 29	SOCKET WELD	PT95184	
2SDS-005- 28	SOCKET WELD	PT95184	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.051 C-F-2			
2FWS-105-F02	BUTT WELD	UT95231	
2FWS-105-F04A	BUTT WELD	UT95233	
2MSS-171-F02	BUTT WELD	UT95200	
2MSS-171-F03	BUTT WELD	UT95201	
2MSS-171-F503	BUTT WELD	UT95211	
2MSS-171-F502	BUTT WELD	UT95184	
2MSS-045-F01	BUTT WELD	UT95185	
2MSS-045-F02	BUTT WELD	UT95186	
2MSS-105-1B	BUTT WELD	UT95208	
2MSS-105-1G	BUTT WELD	UT95203	
2MSS-105-1F	BUTT WELD	UT95204	
2MSS-105-1E	BUTT WELD	UT95205	
2MSS-105-1D	BUTT WELD	UT95206	
2MSS-105-1C	BUTT WELD	UT95207	
2MSS-105-F500	BUTT WELD	UT95209	
2SVS-014-F07	BUTT WELD	UT95189	
2SVS-14 -4A	BUTT WELD	UT95190	

APPENDIX V BREAK EXCLUSION ZONE EXAMINATIONS

BVPS-2 2R05 NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2SVS-014-F09	BUTT WELD	UT95175	
2SVS-014-F500	BUTT WELD	UT95176	
2SVS-014-F501	BUTT WELD	UT95177	
2SVS-14 -6B	BUTT WELD	UT95191	
2SVS-014-F12	BUTT WELD	UT95192	
2SVS-015-F10	BUTT WELD	UT95193	
2SVS-15 -5A	BUTT WELD	UT95178	
2SVS-15 -6B	BUTT WELD	UT95225	
2SVS-015-F11	BUTT WELD	UT95180	
2SVS-015-F12	BUTT WELD	UT95181	
2SVS-15 -8AA	BUTT WELD	UT95182	
2SVS-15 -8AB	BUTT WELD	UT95183	
2SVS-015-F15	BUTT WELD	UT95194	
2SVS-15 -9AA	BUTT WELD	UT95195	
2SVS-015-F502	BUTT WELD	UT95196	
2SVS-12 -8A	BUTT WELD	UT95197	
2SVS-12 -8B	BUTT WELD	UT95228	
2SVS-12 -8C	BUTT WELD	UT95229	
2SVS-012-F09	BUTT WELD	UT95188	
2SVS-011-F702	BUTT WELD	UT95221	
2SVS-011-F703	BUTT WELD	MT95113 UT95222 MT95107	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.052 C-F-2			
2MSS-170-2-L-01	LONGITUDINAL WELD	UT95224	
2MSS-171-2-L-01	LONGITUDINAL WELD	UT95210	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.081 C-F-2			
2MSS-171-3B	BRANCH CONN. WELD	MT95106	

APPENDIX VI

STEAM GENERATOR

EDDY CURRENT EXAMINATIONS

APPENDIX VI

2R05 STEAM GENERATOR EDDY CURRENT EXAMINATIONS

One hundred percent (100%) of the inservice tubes in each steam generator (2RCS-SG21A, -21B, -21C) were examined full length (tube end to tube end) by multi-frequency eddy current techniques using frequencies selected by NED/ISI.

B & W Nuclear Technology (BWNT) personnel were used as primary data acquisitioners and analysts. The primary data analysis was performed manually. An independent review of all data was performed manually by Zetec, Inc.

All examinations/analysis were performed in compliance with the Beaver Valley Power Station Unit 2 Technical Specifications, NRC Regulatory Guide 1.83, EPRI Steam Generator Examination Guidelines (Rev. 3) and NED/ISI procedure ISIE1-8 (Rev. 3) "Steam Generator Analysis Guidelines". All analysts were required to pass a site specific performance demonstration prior to analyzing any eddy current data from the current outage.

Standard mag-bias .720" diameter bobbin coil probes were used on all tube sections, where tube ID allowed. Smaller size bobbin probes (.700", .680", 620") were utilized in some of the lower rows (Rows 3 - 5) to allow the probe to traverse the U-bends. Bobbin coil data acquisition speed was 40 inches per second and was successfully demonstrated to the site ANII prior to implementation.

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

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
NO. OF TUBES EXAMINED	3331	3344	3332
NO. OF TUBES PLUGGED	19	24	20

The Zetec single coil Rotating Pancake Coil (RPC) probe was used to acquire data from the U-bend region of all inservice tubes in Rows 1 and 2. The following table summarizes the results of the Row 1 and 2 U-bend region:

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
NO. OF U-BENDS EXAMINED	183	187	186
U-BENDS WITH INDICATIONS	0	4	1

One hundred percent (100%) of the Distorted Support Plate Signals (DSI's) were examined using the Zetec 3-coil RPC probe. The following table summarizes the results of the DSI examination:

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
NO. OF DSI's	285	814	491
DSI's CONFIRMED BY RPC	5	5	8

The Zetec 3-coil RPC probe was used on a 20% random sample of the top of tubesheet region in each steam generator. No indications associated with the roll transition area were observed. The following table summarizes the results of the this examination:

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
NO. OF TUBES EXAMINED	675	675	675
TUBES WITH INDICATIONS	0	0	0

APPENDIX VI

2R05 STEAM GENERATOR EDDY CURRENT EXAMINATIONS

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

	2RCS-SG21A	2RCS-SG21B	2RCS-SG21C
CONFIRMED DSI'S	5	5	8
U-BEND PWSCC		4	1
SLUDGE PILE ODSCC	8	1	6
AVB WEAR		1	
LOOSE PARTS	2*		
FREE SPAN INDICATIONS	2	13	5
DENTS @ 8TH TSP	2		
TOTAL PLUGGED	19	24	20

* - These tubes were stabilized in the hot leg

In addition to the code required examinations, several other activities took place:

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 visual examination of the inlet and outlet nozzle inner radius areas of 2RCS-SG21B generator was performed. This examination meets the requirements of ASME Section XI (IWA-2211c) and satisfies DLC relief request #BV2-B3.140-1 Rev. 0. No indications were observed.

C) A loose parts screening of the eddy current data was performed on an area 3 rows deep around the periphery in each generator. Two tubes in 2RCS-SG21A were stabilized/plugged due to loose part indications resulting from this evaluation, although no visual confirmation from the secondary side could be made. During the post sludge lance visuals in 2RCS-SG21A, a wire was observed between two tubes in the "inner" bundle region. Retrieval attempts of this part were unsuccessful. An analysis was performed to leave the wire in the generator for one cycle.

D) A sludge pile profile was performed for each generator of the areas commonly known to exhibit sludge. Sludge lancing was performed in 2RCS-SG21A (44 lbs removed), 2RCS-SG21B (43 lbs) & 2RCS-SG21C (36 lbs).

APPENDIX VII

NIS-2 FORMS

Form No. 583

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)
One Oxford Centre - Pittsburgh, PA 15279 (Address)
Date 6/10/94
Sheet 1 of 4

2. Plant Beaver Valley Power Station (Name)
Shippingport, PA 15077 (Address)
Unit No. 2
MWR #025309 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by DLCo - Maint. Programs (Name)
Shippingport, PA 15077 (Address)
Type Code Symbol Stamp Not Applicable
Authorization No. "
Expiration Date "

4. Identification of System Service Water (Sys. 30)

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: 19 83E-S'83A

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)
Expansion Joint Assy	Pathway Bellows	D-4-3213-N2-917	--	2SWS-EJM 22ZC	1978	Replaced	YEs
"	Senior Flexonics	J-4643	--	"	1994	Replacement	Yes

7. Description of Work: Replaced metal expansion joint with a new design

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

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

FORM NIS-2 (Back)

9 Remarks N-2 forms attached

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp 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 Supv. Engr Date June 20 19 94

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in this Owner's Report during the period 11-19-93 to 6/20/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions PA 21424 Nat. Board

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

Date 6/20 19 94

(12/82)

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 SENIOR FLEXONICS INC -- EXPANSION JOINT DIVISION
   JOB# N169 2400 LONGHORN INDUSTRIAL DRIVE NEW BRAUNFELS, TEXAS 78130
2. Manufactured for Duquesne Light Company Shippingport, PA 15077 (name and address of purchaser)
3. Location of installation Beaver Valley Power Station Shippingport, PA 15077 (name and address)
4. Type D-54909, R-2 (drawing no.) | SA240, T304 (mat'l. spec. no.) | 75 Ksi (tensile strength) | N/A (CRN) | 1994 (year built)
5. ASME Code, Section III: 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 (no.) Revision N/A Date N/A
7. Remarks: Cust. P.O.# D128473, Lt.# 001 MARK No: 25WS-EJM222A, B or C
   Materials: P/N 1 - Bellows Element & P/N 2 - Liner = SA240 T304 (TAZ158); P/N's 3 & 4 - Flanges = SA105 (TBA273); P/N's 5 & 6 - Ears = SA516, GR. 70 (TAV546); P/N 12 - Tie Rods = SA193, B7 (TBA250); & P/N 13 - Nuts = SA194, GR 2H (TBA251)
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 Holders' Data Reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	J-4643	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 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 150 psi. Temp. 120 °F. Hydro. test pressure 230 @ AMBIENT (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

FORM N-2 (back)

Mfr. Serial No. J-4643

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 SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this ~~(these)~~ 24"dia. Single Tied Expansion Joint Assembly conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2778 Expires MAY 3, 1994

Date 4/15/94 Name SENIOR FLEXONICS-TEXAS (NPT Certificate Holder) Signed [signature] DQA (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 TEXAS and employed by COMMERCIAL UNION INSURANCE COMPANY of BOSTON, MA have inspected these items described in this Data Report on 4-15-94, 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 4-15-94 Signed [signature] (Authorized Inspector) Commissions TEX 803 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

CORRECTED COPY

FORM N-2 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSEL PARTS

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Pathway Bellows, 1452 N. Johnson, El Cajon, California 92022
subsidiary of Callahan Mining Corporation.
(Name and address of manufacturer of part)

(b) Manufactured for Stone & Webster, P.O. Box 186, Shipping Port, Pa. 15077
(Name and address of manufacturer of completed nuclear vessel)

2. Identification-Manufacturer's Serial No. of Part D-4-3213-N2-917 Nat'l Bd. No. ---

(a) Constructed According to Drawing No. D-4-3213 Rev. A Drawing Prepared by Pathway Bellows, Inc.

(b) Description of Part Inspected Expansion Joint Assembly

(c) Applicable ASME Code Section III, Edition 1974 Class 3, Addenda date Winter 1975, Case No ---

3. Remarks: PIPING EXPANSION JOINT FOR WATER MEDIA FOR DUQUESNE LIGHT CO,
(Brief description of service for which vessel part was designed)
BEAVER VALLEY POWER STATION #2

Model 2SWS # EXH222

CERTIFICATION OF DESIGN (WHEN APPLICABLE)

Design information on file at Pathway Bellows Inc., 1452 N. Johnson Ave., El Cajon, Ca. 92020

Stress analysis report on file at N/A

Design specifications certified by R.E. Tschirch (1) Prof. Eng. State Mass. Reg. No. 27326

Stress analysis report certified by N/A (1) Prof. Eng. State N/A Reg. No. N/A

(1) Signature not required, list name only.

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 vessel Design Specification and Stress Report.)

Date 7/20/78 Signed Pathway Bellows Inc. subsidiary of Callahan Mining Corp. (Manufacturer) By W R Lowe

Certificate of Authorization Expires August 19, 1980 Certificate of Authorization No. N-1835

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 Pennsylvania and employed by ROYAL INDEMNITY CO. of NEW YORK, NEW YORK have inspected the part of a pressure vessel described in this manufacturer's partial data report on April 21, 19 78, 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 equipment 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.

Date July 30, 19 78

Albert Tall
Inspector's Signature

Commissions Pennsylvania WC2818
National Board or State and No.

CORRECTED COPY

PATHWAY BELLOWS, INC.
A DIVISION OF CALLAHAN MINING CORPORATION

(a) Manufactured by Pathway Bellows, Inc. P.O.Box 1526, El Cajon, California 92022
(Name and address of Manufacturer of part)

(b) Manufactured for Stone & Webster, P.O. Box 186, Shipping Port, Pa. 15077
(Name and address of Manufacturer of vessel)

MFG.'s Serial No. of Part D-4-3213-N2-917 CRN --- Dwg. No. D-4-3213 Rev. A Yr. Built 1978

Shell: 2 Ply Bellows	Material	SA240T304	T.S.	75,000	NOM. THK.	.037	DIA.	23.125	LGTH. 9.000
2) Flange	Material	* SA105	T.S.	* 70,000	NOM. THK.	150#	DIA.	24.000	LGTH. 6.000
	Material		T.S.		NOM. THK.		DIA.		LGTH.
	Material		T.S.		NOM. THK.		DIA.		LGTH.
	Material		T.S.		NOM. THK.		DIA.		LGTH.
	Material		T.S.		NOM. THK.		DIA.		LGTH.
	Material		T.S.		NOM. THK.		DIA.		LGTH.
	Material		T.S.		NOM. THK.		DIA.		LGTH.

NDO

Seams: 2 Ply Bellows	Long	B/W	H.T.	NO	X.R.	NO	Sectioned	NO	Efficiency 70%
2) Flange	Long	SMLS	H.T.	NO	X.R.	NO	Sectioned	NO	Efficiency 100%
	Long		H.T.		X.R.		Sectioned		Efficiency
	Long		H.T.		X.R.		Sectioned		Efficiency
	Long		H.T.		X.R.		Sectioned		Efficiency
	Long		H.T.		X.R.		Sectioned		Efficiency
Band with Buckle:			H.T.		X.R.		Sectioned		Efficiency

Girth: B/W H.T. NO X.R. NO Sectioned NO No. of Courses 3

Design Press. 150 PSI At Max. Temp 100°F Charpy Impact @ Temp °F N/A

Remarks: EXPANSION JOINT DESIGN VERIFIED PER ND3649.4(e)(1). THIS UNIT HYDRO TESTED AT 225 PSIG AT AMB. TEMPERATURE. BELLOWS CONSISTS OF (2) PLYS, EACH IS .037 THK SA240T304. FLANGES ARE RESTRAINED BY (8) LUGS OF 1-3/4 THK SA516 GR. 70 CONNECTED TOGETHER BY (4) TIE RODS OF 1-1/4 DIA. SA193-B7 WITH SA194-2H NUTS AND IS DESIGNED TO PREVENT ELONGATION SHOULD AN ANCHOR FAIL.

* CORRECTED - WAS: SA181 Gr.1 60,000

Form No. 635

FORM NIS-? 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 02-02-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR# 029447 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. "

   Expiration Date "

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Valve	Target Rock	2	N/A	2SWS-TCV -101B	1984	Repaired	YES

7. Description of Work Tack weld 1 valve body to bonnet

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form 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 [signature] Senior Engineer Date Feb. 3, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/31/94 to 2/5/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB7509 (NIB, IS, S) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date FEB 5 19 95

(12/82)

Form No. 667

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 10-26-94

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#031890 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. ,

Expiration Date ,

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, ---- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10157	N/A	2FWE-99	1993	Repaired	YES

7. Description of Work Replaced bolting, installed setscrews to prevent diffuser movement

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

FORM NIS-2 (Back)

9. Remarks: Setscrews installed per TER-8850

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 [signature] Senior Engineer Date Oct 27, 19 94
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period JUNE 3, 1994 to OCT 31, 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

Robert J. Cimock Commissions PA 2162 NISBIS
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date Oct 31 19 94

(12/82)

EM - 106292

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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Jody Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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.

EM - 106292

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 (pressure) psi @ 450°F (temperature) or 1400 °F or valve pressure class 600 ANSI (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH (N Certificate Holder) Signed J. I. Rosen (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 State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C. A. Harris (Authorized Inspector) Commissions CA-1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 668

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 10-26-94

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

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

   Shippingport, PA 15077 (Address) — MWR#031891 (Repair Organization P.O. No., Job No., etc.)

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

   Shippingport, PA 15077 (Address) — Authorization No. ____ Expiration Date ____

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10158	N/A	2FWE-100	1993	Repaired	YES

7. Description of Work Replaced bolting, installed setscrews to prevent diffuser movement

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

FORM NIS-2 (Back)

9. Remarks: Setscrews installed per TER-8850

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 [signature] Senior Engineer Date OCT. 27, 19 94
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/3/94 to 10/31/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions PA. 2162 NISBIS
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date OCT 31 19 94

(12/82)

EM - 106292

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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 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.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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

EM - 106292

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

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 psi @ 450°F or 1400 psi @ 120°F (pressure) (temperature) °F or valve pressure class 600 ANSI (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH (N Certificate Holder) Signed J. I. Rosen (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 State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C. A. Harris (Authorized Inspector) Commissions CA-1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 669

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 10-26-94

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#031968 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. *

   Expiration Date *

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10159	N/A	2FWE-101	1993	Repaired	YES

7. Description of Work Replaced bolting, installed setscrews to prevent diffuser movement

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

FORM NIS-2 (Back)

9. Remarks: Setscrews installed per TER-8850

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 [signature] Senior Engineer Date OCT 27, 19 94
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/5/94 to 10/31/94, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions PA 2162 NISBIS
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date OCT 31 19 94

(12/82)

EM - 106292

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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 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.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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.

EM - 106292

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 (pressure) @ 450°F (temperature) or 1400 psi @ 120°F °F or valve pressure class 600 ANSI (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH (N Certificate Holder) Signed J I Rosen (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 State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C A Harris (Authorized Inspector) Commissions CA-1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 674

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 10-26-94

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#032023 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. "

   Expiration Date "

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10164	N/A	2FWE-42A	1993	Replacement	YES

7. Description of Work Replaced bolting

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

FORM NIS-2 (Back)

9. Remarks: N/A

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) Senior Engineer Date OCT. 27, 19 94

CERTIFICATE OF INSERVICE INSPECTION

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.* Norwood, Massachusetts of have inspected the components described in the Owner's Report during the period JUNE 6, 1994 to NOV. 2, 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock (Inspector's Signature) Commissions PA 2162 NISBIS (National Board, State, Province, and Endorsements)

Date NOV. 2 19 94

(12/82)

EM-106292

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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 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.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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

EM - 106292

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

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 psi (pressure) @ 450°F (temperature) or 1400 psi @ 120°F °F or valve pressure class 600 ANSI (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH (N Certificate Holder) Signed J. I. Rosen (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 State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C. A. Harris (Authorized Inspector) Commissions CA-1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 675

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 10-26-94

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#032024 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. ,

   Expiration Date ,

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10160	N/A	2FWE-42B	1993	Replacement	YES

7. Description of Work Replaced bolting

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

FORM NIS-2 (Back)

9. Remarks: N/A

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) Senior Engineer Date OCT. 27, 19 94

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period JUNE 6, 1994 to NOV. 2, 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock (Inspector's Signature) Commissions PA 2162 NISBIS (National Board, State, Province, and Endorsements)

Date NOV. 2 19 94

(12/82)

EM - 106292

FORM NPV-1 CERTIFICATE HOLDER'S 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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 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.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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.

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

EM - 106292

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 (pressure) psi @ 450°F (temperature) or 1400 psi @ 120°F °F or valve pressure class 600 ANSI (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH (N Certificate Holder) Signed J. I. Rosen (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 State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C. Harris (Authorized Inspector) Commissions CA-1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 676

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 10-26-94

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#032025 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. *

   Expiration Date *

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10163	N/A	2FWE-43A	1993	Replacement	YES

7. Description of Work Replaced bolting

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

FORM NIS-2 (Back)

9. Remarks: N/A

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 Date OCT. 27, 1994
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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period JUNE 6 1994 to NOV. 2, 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions PA 2162 NISBIS
Inspector's Signature National Board, State, Province, and Endorsements

Date NOV. 2 1994

(12/82)

EM - 106292

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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 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.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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

EM - 106292

FORM NPV-1 (Back – Pg. 2 of 2)

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 (pressure) psi @ 450°F (temperature) or 1400 psi @ 120°F °F or valve pressure class 600 ANSI (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH (N Certificate Holder) Signed J. I. Rosen (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 State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C. A. Harris (Authorized Inspector) Commissions CA-1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 677

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 10-26-94

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#032026 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. "

Expiration Date "

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, ---- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10165	N/A	2FWE-43B	1993	Replacement	YES

7. Description of Work Replaced bolting

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

FORM NIS-2 (Back)

9. Remarks: N/A

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) Senior Engineer Date OCT. 27, 19 94

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period JUNE 6, 1994 to NOV. 2, 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Arnold (Inspector's Signature) Commissions PA 2162 NISBIS (National Board, State, Province, and Endorsements)

Date NOV. 2 19 94

(12/82)

EM - 106292

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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 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.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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

EM - 106292

FORM NPV-1 (Back – Pg. 2 of 2)

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 psi @ 450°F or 1400 psi @ 120°F °F or valve pressure class 600 ANSI (1)
(pressure) (temperature)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH Signed J. I. Rosen
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C. A. Harris Commissions CA-1234
(Authorized inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 678

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)
   One Oxford Centre - Pittsburgh, PA 15279 (Address)
   Date 10-26-94
   Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address)
   Shippingport, PA 15077 (Address)
   Unit No. 2
   MWR4032027 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name)
   Shippingport, PA 15077 (Address)
   Type Code Sample Stamp Not Applicable
   Authorization No. *
   Expiration Date *

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10182	N/A	2FWE-44A	1993	Replacement	YES

7. Description of Work Replaced bolting

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

FORM NIS-2 (Back)

9. Remarks: N/A

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 Oct. 27, 1994
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period JUNE 6, 1994 to NOV. 2 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions PA 2162 NISBIS
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date NOV. 2 1994

(12/82)

EM - 106292

FORM NPV-1 CERTIFICATE HOLDER'S 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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 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.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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

EM - 106292

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 psi @ 450°F (pressure) or 1400 psi @ 120°F (temperature) °F or valve pressure class 600 ANSI (1)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH (N Certificate Holder) Signed J. I. Rosen (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 State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C. A. Harris (Authorized Inspector) Commissions CA-1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 679

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 10-26-94

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#032028 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. Expiration Date

4. Identification of System Auxiliary Feedwater (2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Enertech	10161	N/A	2FWE-44B	1993	Replacement	YES

7. Description of Work Replaced bolting

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

FORM NIS-2 (Back)

9. Remarks: N/A

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) Senior Engineer Date Oct. 27, 19 94

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period JUNE 6, 1994 to NOV. 2, 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimorelli (Inspector's Signature) Commissions PA 2162 NI SBIS (National Board, State, Province, and Endorsements)

Date NOV. 2 19 94

(12/82)

EM-106292

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, Shippingport, PA
(name and address of Purchaser)

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

4. Model No., Series No., or Type DRV-Z Drawing PD96229 Rev. A CRN N/A

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 1974 (addenda date) 2 (class) N/A (Code Case no.)

6. Pump or valve Check Valve Nominal inlet size 4 (in.) Outlet size 4 (in.)

7. Material: Body SA-105 Bonnet N/A Disk SA-479 TP316 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.
10157	N/A	HKV-001	N/A	HMA-001
10158	N/A	HKV-002	N/A	HMA-002
10159	N/A	HKV-003	N/A	HMA-003
10160	N/A	HKV-004	N/A	HMA-004
10161	N/A	HKV-005	N/A	HMA-005
10162	N/A	HKV-006	N/A	HMA-006
10163	N/A	HKV-007	N/A	HMA-007
10164	N/A	HKV-008	N/A	HMA-008
10165	N/A	HKV-010	N/A	HMA-009

* 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

EM - 106292

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. 10157 thru 10165

8. Design conditions 1085 (or 1400) psi @ 450°F (120°F) °F or valve pressure class 600 ANSI (1)
(pressure) (temperature)

9. Cold working pressure 1440 psi at 100°F

10. Hydrostatic test 2175 psi. Disk differential test pressure 1440 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

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

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2826 Expires 10-26-1993

Date 3 Aug 93 Name ENERTECH (N Certificate Holder) Signed J. I. Rosen (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 State of California and employed by DOSH of State of California have inspected the pump, or valve, described in this Data Report on 8-30-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 8/30/93 Signed C. A. Harris (Authorized Inspector) Commissions CA-1234 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Form No. 680

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 02-07-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR# 032113 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No.

Expiration Date

4. Identification of System Blowdown Generator (2)

5. (a) Applicable Construction Code Section III 1971 Edition, S'73 Addenda, 1567 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Gate Valve	Masoneilan	N-00228-18-3	N/A	2BDG-AOV 100C1	1984	Repaired	YES

7. Description of Work Replaced valve plug and stem

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

9. Remarks: NPV-1 form 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 [signature] Senior Eng. Date Feb. 10, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2/9/94 to 2/21/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimicki Commissions NB7504(NBIS,IS) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date FEB 21 19 95

(12/82)

SERIAL NO: NPP228-18-3
MARK NO: 2BDG-AOV100C1
TYPE:
COMMENTS:
2BV-651

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 Masoneilan Div., McGraw-Edison Co., 63 Nahatan St., Norwood, Ma 02062
(Name and Address of N Certificate Holder)
2. Manufactured for Stone & Webster Engineering Corp., Boston, MA 02107
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Unit No. 2, Shippingport, PA
(Name and Address)
4. Pump or Valve Globe Control Valve. Nominal Inlet Size 3" Outlet Size 3"
(Inches) (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)	48-41431	NPP228-18-3	NA	A-9191-D	2	NA	1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. P.O. No. 2BV-651 Water Tag No. 2BDG*AOV100C1
(Brief description of service for which equipment was designed)

6. Design Conditions 1085 (Pressure) psi 533 (Temperature) °F or Valve Pressure Class NA (1)
7. Cold Working Pressure 3600 psi at 100°F.
8. Pressure Retaining Pieces

Item No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
F-5774-3	ASME SA 351 GR CF8M	Quaker Alloy	Body
D-8166-1	ASME SA 351 GR CF8M	Quaker Alloy	Bonnet
(b) Forgings NA			

RECEIVED
JUN-2 8 1984
Stone & Webster Engineering Corporation
Boston, Mass.

(1) For manually operated valves only.

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

FORM NPV-1 (Back)

Mark No	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
JB7-AZT	ASME SA 193 GR B7	B& G Inc.	Studs
J2HB-AEL	ASME SA 194 GR 2H	B& G Inc.	Nuts
(d) Other Parts			
78266-47	ASME SA 479 TP 316	Joslyn St. St. Mfg	Pilot
666885-20	ASME SA 564 TP 630	Armco	Plug

9. Hydrostatic test 5400 psi. Disk Differential test pressure Not req'd 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. 1, Edition 1971, Addenda Summer 1975 (Date), Code Case No. NA, Date NA

Signed Masoneilan Div., McGraw-Edison Co. (N Certificate Holder) by Donald B. Kramer 6-13-86

Our ASME Certificate of Authorization No. N-1836 to use the N symbol expires 8/19/86 (Date)

CERTIFICATION OF DESIGN

Design information on file at Masoneilan Div., McGraw-Edison Co.

Stress analysis report (Class 1 only) on file at NA

Design specifications certified by (1) Carl O. Richardson

PE State PA Reg. No 16297-E

Stress analysis certified by (1) NA

PE State NA Reg. No. NA

(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 MA & PA and employed by H.S.B.I.& I. Co. of Hartford, Ct have inspected the pump, or valve, described in this Data Report on June 13 19 86, 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 June 13 19 86

Signed [signature] (Inspector)

Commissions Mass #71 Pa WC 2846 (Nat'l Bd., State, Prov. and No.)

Form No. 681

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 10-26-94

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 1

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR# 025308 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. -

Expiration Date -

4. Identification of System Service Water (3)

5. (a) Applicable Construction Code Section III 1974 Edition, W'75 Addenda, --- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Expansion Joint-Metal	Pathway Bellows	D4-3213 -N2-916	N/A	2SWS-EJM 222B	---	Replaced	Yes
Expansion Joint-Metal	Senior Flexonics	J-4545	N/A	2SWS-EJM 222B	1994	Replacement	Yes

7. Description of Work Replaced Metal Expansion Joint with Refurbished One

8. Tests Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 230 psi Test Temp. 70 °F

FORM NIS-2 (Back)

9 Remarks: Expansion joint was removed from 2SWS-EJM222C location, refurbished under Purchase Order D128450 by Senior Flexonics, and installed at the 2SWS-EJM222B location.

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) Senior Eng Date Feb 14, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6/10/94 to 2/19/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cemock (Inspector's Signature) Commissions NB7509(NISBIS) PA.2162 (National Board, State, Province, and Endorsements)

Date FEB. 19 19 95

(12/82)

Form No. 686

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 05-11-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

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

   Shippingport, PA 15077 (Address) — MWR#027645 (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 Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Safety Valve	Crosby	N56963-00 -0009	206	2RCS-RV551B	1976	Replaced	YES
Safety Valve	Crosby	N56963-00 -0007	N/A	2RCS-RV551B	1976	Replacement	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: NPV-1 form 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 Engr (Owner or Owner's Designee, Title) Date May 15, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 2-16-94 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] (Inspector's Signature) Commissions NB 3114 Penn. PA 2245 (National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

Q.C. 44C

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

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. B-56963 6M1
Model No. KB-86RPOrder No. N-303157 Contract Date 4-4-73 National Board No. ---
Westinghouse Electric Corp., Nuclear

2. Manufactured For Energy Systems, Pittsburgh, Pa. 15230 Order No. 546-CCX-178357-BM
Name and Address

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

4. Location of Plant Shippingport Beaver County, Pennsylvania

5. Valve Identification 6RV88LSB Serial No. N56963-00-0007 Drawing No. DS-C-56963 Rev. C -

Type Safety Orifice Size 1.952 inch Pipe Size - inch Inlet 6 inch Outlet 6 inch
Safety, Safety Relief, Pilot, Power Actuated

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

Stamped Capacity 144972 lbs./hr. @ 3 % Overpressure 53 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		
	Body	N90490-11-0040 *	ASTM-A182-71 F316 ASME-SA182 F316
	Bonnet	N90351-16-2056 *	ASTM-A105-71 Gr. 2 ASME-SA105 Gr. 2
b.			
	Support Ends		
	Bonnie	N90556-11- *	ASTM-A[illegible]-71 F316 ASME-SA182 F316
	Disc Holder	N90553-11-	ASTM-A637 Gr. [illegible]
	Spring Washers Top / Bottom	N90350-11-	ASTM-A[illegible] ASME-SA[illegible]
	Adjusting Bolt	N90351-11-	ASTM-A[illegible]
	Spindle Point	N90354-11-	ASME-SA[illegible]
	Disc Insert	N90349-11-	Haynes Stellite No. [illegible]
	Spindle Ba..	N90355-	ASTM-A[illegible] Type [illegible]

(2)

	Serial No. or Identification	Material Specification including Type or Grade
e. Spring	HX-2761-0074	ASTM-A304 Gr. 51B60W
d. Bushing		
e. Other Parts such as Prime Components		
Bonnet Stud	100883	ASTM-A193-70 Gr. B7 ASME-SA193 Gr. B7
Bonnet Stud Nut	89997	ASTM-A194-71 Gr. 2H ASME-SA194 Gr. 2H
Inlet Stud	M90488-0513 thru 0524	ASTM-A453-70 Gr. 660 ASME-SA453 Gr. 660
Inlet Stud Nut	M90489-0513 thru 0524	ASTM-A194-71 Gr. 8M ASME-SA194 Gr. 8M

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

Date 7-22 19 76 Signed [illegible] 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* of [illegible] have inspected the equipment described in this Data Report on [illegible] 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 March 29, 76

Donald L. Chrouser Commissions Penna. WS 2035 Mass. #90

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

Form No. 688

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 10-26-94

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#026112 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. Expiration Date

4. Identification of System Service Water (3)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Valve	Target Rock	3	N/A	2SWS-SOV 130A	1984	Repaired	YES

7. Description of Work Tack welded body to bonnet

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

FORM NIS-2 (Back)

9. Remarks: Valve was disassembled for cleaning

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 [signature] Senior Engineer Date OCT. 27, 19 94
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period DEC. 22, 1993 to NOV. 2, 1994, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions PA 2162 NISBIS
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date NOV. 2, 19 94

(12/82)

MARK NO: 2SWS-SOV130A
TYPE: 83C-012
COMMENTS:

2BV-719

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 Target Rock Corporation 1966E Broadhollow Rd E. Farmingdale, N.Y.
(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) NB* Ed. No.	(g) Year Built
(1)	83C	3 and 4		83C-012	2		1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5 SERVICE WATER ISOLATION
QUENCH SPRAY SODIUM HYDROXIDE INJECTION
(Brief description of service for which equipment was designed)

6 Design Conditions 65 psi @ 120 °F or Valve Pressure Class 150 (1)
(Pressure) (Temperature)

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	

DUQUESNE LIGHT CO.
STONE & WEBSTER ENG.
BEAVER VALLEY UNIT 2
P.O. 12941 P.I. NO. 2V-

TARGET ROCK

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, 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.

(10/77) This form (000207) 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
(a) Bolting			
(a) 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.	

6. Hydrostatic test 350 psi Disc (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, Division 1, Class 1 Edition Summer 1981 Addenda Summer 1981 Code Case No. ——— Stamp 5-7-84

Signed Target Rock Corporation By G. Abruzzo, Mgr. of Quality

Our ASME Certificate of Authorization No. 1967 to use the N (Stamp) symbol expires 12/9/86

CERTIFICATION OF DESIGN

Design information on file at Target Rock Corporation

Design specifications certified by (1) R.P. Pfrimmer, John F. Markin

PE State CT, VA Reg. No. 8805, 30388-E

Design 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 5/8 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 5/8 19 84 Commissions ANBO Commission Number 1th 13000, JFK & Sons. (Nat'l Bd. (incl. endorsements) and State, Prov. and No.)

SERIAL NO: 1-18149-02
MARK NO: 2CHS-MOV100A
TYPE: 2BV-091
COMMENTS: ____________________

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

REVISED COPY

1. Manufactured by Atwood & Morrill C[illegible] [illegible] Street, Salem, MA 01970
(Name and Address of N Certificate Holder)
2. Manufactured for Stone & Webster for Duquesne Power [illegible]
(Name and Address of Purchaser or Owner)
3. Location of installation Beaver Valley Power Station [illegible] Shippingport, Beaver County PA
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 3 (inch) Outlet Size 3 (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)	[illegible] Plug	1-18149-02	N/A	18149-02	2	N/A	1984
(2)	Valve	2-18149-02		Rev. 5			
(3)							

(4)–(10): * NPV-1 revised because original bolting was not certified in accordance with ASME Sect. III requirements. New bolting was installed at the site under direction of Atwood & Morrill Co. service personnel. Atwood & Morrill Co., Inc. cannot certify the integrity of cover seal as valves were not hydro tested after the installation of replacement bolting. Installation of replacement bolting was witnessed by Ray Welsh of Hartford Steam Boiler Inspection & Insurance Co., the site ANI. Original NPV-1 form signed by Brian Sullivan on 5/30/84.

5. Boron Recovery
(Brief description of service for which equipment was designed)

6. Design Conditions 615 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure 615 psi at 100°F
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	SA 351 Gr. CF8	Quaker Alloy	E2023-2, E2023-1
Plug	SA 351 Gr. CF8M	Lebanon Steel Fdry.	22091-9A, 22101-13
Cover	SA 351 Gr. CF8	Lebanon Steel Fdry.	5145C-33, 5145C-100
(b) Forgings			
N/A			

DUQUESNE LIGHT CO.
STONE & WEBSTER ENG.
BEAVER VALLEY UNIT 2
2BV.91
I.D. 12241 P.O. NO. 2[illegible] 5[illegible] 5 [illegible] CS 1-3 [illegible]
[illegible]
VENDOR'S NAME

(1) For manually operated valves only

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

This form [illegible] 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) Bonnet			
Cover Screws	SA 193 Gr. B6	Standard Nut & Bolt	Ht. # 8640975
(d) thru (n)			
N/A			

9. Hydrostatic test 1100 psi. Disc Differential test pressure 795 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. 1, Subsec. 1974
Addenda Winter 1974 (Date). Code Case No. N/A (Date) 12/18/84

Signed Atwood & Morrill Co., Inc. (Certificate Holder) by [signature] (Date) 9.8.86

Our ASME Certificate of Authorization No. N-2606 to use the N stamp expires 6/13/86 (Date)

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster

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

Design specifications certified by (1) Bartho Royaircer

PE State PA Reg. No. 18266-E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, [signature], holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on 8-16 to 8-16 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 8-16 to 8-16

[signature] (Inspector) Commissions PA 18266-E, AIC 2143 (Nat'l Bd., State, Prov. and No.)

Form No. 694

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 10-26-94
   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2
2. Plant Beaver Valley Power Station (Address) — Unit No. 2
   Shippingport, PA 15077 (Address) — MWR# 033640 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed By DLCo - Maint. Programs (Name) — Type Code Sample Stamp Not Applicable
   Shippingport, PA 15077 (Address) — Authorization No. —
   Expiration Date —

4. Identification of System Component Cooling, Primary (3)

5. (a) Applicable Construction Code Section III 1974 Edition, W'75 Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Expansion Joint, Metal	Pathway Bellows	D-5-3213 -N2-1132	N/A	2CCP-EJM 214C	1978	Replacement	YES

7. Description of Work Replaced bolting

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

FORM NIS-2 (Back)

9. Remarks: N-2 Data Report attached.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp 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 Feb. 10 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8/12/94 to 2/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB7504 (NISB [S]) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date FEB 21 1995

(12/82)

FORM NPT-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provisions of the ASME Code Rules, Sect. III, Div. 1

1. (a) Manufactured and certified by Pathway Bellows Inc., P.O. Box 1526, El Cajon, California 92022
(Name and address of Manufacturer of part)

(b) Manufactured for Duquesne Light Co., Stone & Webster Engr. Corp.-Agent, P.O. Box 186
(Name and address of Manufacturer of completed nuclear component) Shippingport, PA 1507

2. (a) Manufacturer's Serial No. of Part D-5-3213-N2-1132 Nat'l Bd. No. ---

(b) Drawing No. D-5-3213 Rev. 8 Drawing Prepared by Pathway Bellows Inc.

(c) Description of Part Inspected 12" Expansion Joint

(d) Applicable ASME Code Section III, Edition 1974 Addenda date Winter 1975 Code No. --- Class 3

3. Remarks PIPING EXPANSION JOINT FOR PRIMARY COOLING WATER PUMPS FOR DUQUESNE
(Brief description of nuclear facility for which component was designed)
LIGHT CO., BEAVER VALLEY POWER STATION NO. 2.

TAG NO. 2 CCP-EJH-214 DUQUESNE LIGHT CO.
BEAVER VALLEY UNIT #2
Item ZBV-240
We certify that the statements made in this report are correct and this EQUIPMENT DESCRIPTION 12" EXP. JOINT conforms to the rules of construction of the ASME Code
Certificate of Design Authorization No. (if applicable) MARK #2CCP-EJH-214
Expiration Date PATHWAY BELLOWS INC. EL CAJON, CALIF.
Type "N" Certificate of Authorization to use the ASME Code Symbol Stamp

Date December 23 19 78 Signed Pathway Bellows Inc. By [signature]

Certificate of Authorization Expires August 16, 1980 Certificate of Authorization No. N-1835

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Pathway Bellows Inc., P.O. Box 1526, El Cajon, Ca. 92022

Stress analysis report on file at ---

Design specifications certified by R.E. Tarbiat Prof. Eng. State MA Reg. No. 27324

Stress analysis certified by [illegible] 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 California and employed by Hartford Steam Boiler Inspection & Insurance Co. of Hartford, Conn. have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on [illegible] 19 78 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 inspected. Furthermore, neither the Inspector nor his employer shall be 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 December 23, 19 78

[signature] Commissions PA WC 2372
(National Board, State, Province and No.)

RECEIVED
JAN 2 1979
Stone & Webster

PATHWAY BELLOWS, INC.

MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET

(a) Manufactured by Pathway Bellows, Inc. P.O.Box 1526, El Cajon, California 92022
(Name and address of Manufacturer of parts)

(b) Manufactured for Duquesne Light Co., Stone & Webster Engr. Corp.-Agent, P.O. Box 186
(Name and address of Manufacturer of vessel) Shippingport, PA 15077

D-S-321-12-1 | — | D-S-7213 Rev. B | 1978
(MFG's Serial No. or Part) | (CRN) | (Dwg.) | (Year Built)

Shell 2 Ply Bellows — Material SA240T304 — T.S. 25,000 — Nom. Thk. .026 — DIA. 13.250 — LGTH. 7.000
Flange — Material SA105 — T.S. 20,000 — Nom. Thk. 3004 — DIA. 12.000 — LGTH. 2.97[illegible]
Material — T.S. — Nom. Thk. — DIA. — LGTH.
Material — T.S. — Nom. Thk. — DIA. — LGTH.
Material — T.S. — Nom. Thk. — DIA. — LGTH.
Material — T.S. — Nom. Thk. — DIA. — LGTH.
Material — T.S. — Nom. Thk. — DIA. — LGTH.
Material — T.S. — Nom. Thk. — DIA. — LGTH.

2 Ply Bellows — Long. B/W — E.T. N/A — X.R. HOME — Seat's — Ext. 796
Long. — E.T. — X.R. — Seat's — Ext.
Long. — E.T. — X.R. — Seat's — Ext.
Long. — E.T. — X.R. — Seat's — Ext.
Long. — E.T. — X.R. — Seat's — Ext.
Long. — E.T. — X.R. — Seat's — Ext.
Band with Buckle — E.T. — X.R. — Seat's — Ext.
Girth FILL FILLET — E.T. N/A — X.R. N/A — Seat's — No. of Courses 3

Design Press. 150 — PSI At Max. Temp 180 — Charpy Impact @ Temp °F —

Remarks UNIT HYDROSTATICALLY TESTED @ 230 PSIG AT AMBIENT TEMPERATURE.

[illegible] CERTIFIED TO ASME SECTION III, NB3649.4(a)(1).

TAG NO. [illegible]

DUQUESNE LIGHT CO.
BEAVER VALLEY UNIT #2
2SW-240
EQUIPMENT DESCRIPTION 12" EXP. JOINT
MARK #2CCP-EJW-214 B
PATHWAY BELLOWS INC. EL CAJON, CALIF.

RECEIVED
JAN 2 1978
[illegible] & Webster
Engineering Corporation
Document Review

Form No. 700

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 02-02-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR# 035162 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. -

Expiration Date -

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, --- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Piping, 2"	Schneider Power	2-SR-30 -11-SWS	N/A	2-SWS-002 -576-3	1987	Replaced	YES
Piping, 2"	DLCo	---	N/A	2-SWS-002 -576-3	1994	Replacement	NO

7. Description of Work Replaced section of pipe which had developed a pinhole leak

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure 170 psi Test Temp. 73 °F

FORM NIS-2 (Back)

9. Remarks: N/A

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. Date Feb. 10, 19 95
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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 9/30/94 to 3/19/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB 7509 (NIS, BIS) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date FEB. 19 19 95

(12/82)

2-SB-20-11-SMS

...LITY OF NUCLEAR POWER

CORRECTED COPY

...Section XI, Division 1 Sheet 1 of 3

1. Manufactured by Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 16222
(Name and address of N Certificate Holder for Manufacturer of Components or Appurtenances)

2. Manufactured for Duquesne Light Company, 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-SB-20-11-SMS N/A N/A Work Req. No. N/A Year Installed 1987
(Drawing No.)

6. Number Components and Appurtenances Installed in the Field by Welding (List each item and attach copies of N Certificate Holders' Data Reports and ASME Certificate Holders' Partial Data Reports) E78701260010

(a) Components, or N	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No.	(e) National Bd. No.	(f) Year Built
See attached sheet 3 of 3 for partial N-5 Data Reports					
ADDITIONAL 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 attached sheet 3 of 3 for partial N-5 Data Reports					
ADDITIONAL ENTRIES					

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Spec. Load Capac. Data Sheet	(e) Canadian Reg. No.	(f) National Bd. No.	(g) Year Built
Component supports are NNS-SMS, due to code effective date. See attached sheet 3 of 3 for partial N-5 Data Reports						
ADDITIONAL ENTRIES						

Additional Material Excluding Welding Materials

(a) Name of Manufacturer	(b) Material Specification	(c) Dimensions
[redacted]	partial N-5	

7. (g) [redacted] See attached sheet 3 of 3 for partial N-5 Data Reports.
ADDITIONAL ENTRIES

NOTE: The following shorthand company names are used in this report:
SWEC: Stone & Webster Engineering Corporation
SPC: Schneider Power Corporation
HSB&I CO.: Hartford Steam Boiler Inspection & Insurance Company

Prepared by

(h) Description of Installation Performed:

See attached sheet 3 of 3 for partial N-5 Data Reports.
ADDITIONAL ENTRIES

(i) Hydrostatic Test 1 psi. System Working Pressure 1 psi and Temp. 1 °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 7 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 attached sheet 3 of 3 for partial N-5 Data Reports.

(SEE) This form (E00032) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

(CORRECTED COPY

Service Water System (SWS) 2-SR-30-11-SW5

PIPING DATA Sheet Sheet 2 of 3

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on this at Stone & Webster Engineering Corporation, Boston, MA

Design Report on this at A stress report is not required for Class 2 or 3 piping systems

Design specifications certified by (1) A. J. Fiorenza PE State Pennsylvania

Reg. No. 32366-E

Design Report certified by (1) A stress report is not req'd PE State N/A

Reg. No. for Class 2 or 3 piping systems.

(1) Signature not required. List name only. # See attached sheet 3 of 3 for partial N-5 Data Reports.

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, _____ Edition, Addenda Date: _____ Code Case No. _____ Class 3 and was performed in accordance with the drawings listed in Part, above.

Our ASME Certificate of Authorization No. N-1513-1 to use the NA Symbol expires 8-12-89

See attached sheet 3 of 3 for partial N-5 Data Reports.

Date 1/28/87 Signed Schneider Power Corp. By _____

Certificate Holder

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 Massachusetts and employed by HSB I & I CO. of Hartford, CT. have inspected the installation of the items described in this Data Report on 1-31 1987 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 makes 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 1-31 1987 Signed _____ Commissions _____

Inspector National 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 certificate. See attached sheet 3 of 3 for partials for material responsibilities and pressure testing.

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 2-12-89 Certificate of Authorization No. N-1513-2

Date _____ By _____ Stone & Webster Eng. Corp.

Signed

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 HSB I & I Co. of Hartford, Connecticut have inspected the piping described in this Data Report on 1/28 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 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 1/28 1987

Signed _____ Commissions _____

Inspector National Board, State, Province and No.

2-SS-30-11-SW6

Sheet 1 Of 1

1. INSTALLED BY: [redacted] PA 15222
2. INSTALLED FOR: [redacted] OHIO EDISON 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 Service Water System(SW)2-SS-30-11-SW5 YEAR INSTALLED 1987

[redacted]

Continued from Sheet 1 of 1

[redacted]	No. of Pages
[redacted]	12
2-SS-30-11-S-SW6 [redacted]	9

[redacted]

[redacted]

Continued on Sheet [redacted]

[redacted]

June 1, 218

Form No. 731

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 02-07-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR# 037199 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. —

Expiration Date —

4. Identification of System Boron Recovery (3)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Vertical Heat Exch.	Atlas Industrial	2832	2214	2BRS-E21B	1979	Repaired	YES

7. Description of Work Seal welded Top Tubesheet vent / drain pipe plug

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

FORM NIS-2 (Back)

9. Remarks: PA Serial No. 484962. N-1 form 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 [signature] Senior Eng. Date Feb. 10, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 12/12/94 to 2/19/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB7509(NISBIS) PA2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date FEB 19 1995

(12/82)

731

[illegible] ASME Code Rules

1. Manufactured by [illegible] Co. 81 Somerset Pl. Clifton, N.J. 07012
(Name & address of Manufacturer)

2. Manufactured for Duquesne Light Co. Beaver Valley Power Stat. Shippingport, Pa.
(Name and address of Purchaser)

3. Type [illegible] Vessel No. (3832) ( ) Nat'l Bd. No. 2216 Yr. Built 1979
(Mfrs. Serial No.) (State & State No.)

3a. Applicable ASME Code: Section III, Edition 1971, Addenda date W-72, Case No. 1567
Class 3

Items 4-8 incl. to be completed [illegible] shells of heat exchangers.

4. Shell: Material C.S. SA-106B 60,000 (Min. of range specified) Nominal Thickness .365 in. Corrosion Allowance .125 in. Dia. 0 ft. 10 3/4 in. Length 6 ft. 11 7/8 in.

5. Seams: Long SMLS H.T.[1] No R.T. No Efficiency 100 %
Girth [illegible] H.T.[1] No R.T. No No. of Courses 1

6. Heads (a) Material ______ T.S. ______ (b) Material ______ T.S. ______

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a)								
(b)								

If removable, bolts used ______ (Material, Spec. No., T.S., Size, Number) Other fastening ______ (Describe or Attach Sketch)

7. Jacket Closure ______ [illegible]

8. Design Pressure[2] 150 psi at 300 °F at range of ______ °F. Charpy Impact ______ ft-lb Hydrostatic or Pneumatic Test Pressure 225 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary, Material [illegible] Dia. [illegible] in. Thickness 1 3/16 in. Attachment [illegible] (Welded, Bolted)

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

10. Tubes: Material SA-213 TP304 (Kind & Spec. No.) O.D. 3/4 in. Thickness 16 inches or gage Gage Number 63 Type Straight (Straight or U)

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

11. Shell: Material [illegible] Nominal Thickness [illegible] in. Corrosion Allowance 0 in. Dia. 0 ft. 10 3/4 in. Length 0'-10" & 0'-[illegible] in.

12. [redacted] H.T.[1] No R.T. [illegible] Efficiency [illegible] %
[redacted] H.T.[1] No R.T. No No. of Courses 1

13. [redacted] (b) Material ______ T.S. ______ (c) Material ______ T.S. ______

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Top, bottom, [illegible]							13 3/8"	
(b) Channel								
(c) Floating								

If removable, bolts used [redacted] ______ (c) ______ Other fastening ______ (Describe or attach sketch)
Drop weight ______ Pneumatic
Charpy Impact ______ ft-lb Hydrostatic or Test

14. Design pressure[2] 150 psi at [illegible] °F at range of ______ °F. Combination Pressure 250 psi

[1] If Postweld Heat Treated. [2] [illegible]
[illegible]

FORM U-1 (Back)

Items to be completed for all vessels where applicable.

17. Safety Valve Quantity Number _____ Size _____ Location _____

18. Nozzles:

Purpose (Gage, Level, etc.)	Number	Diameter or Size	Type	Material	Thickness	Reinforcement Material	Attachment
Inlet/outlet	2	2"	S.W.	SA-182	154"		Welded
Outlet	1	3"	B.W.	SA-106B	300	SA-285-C	Welded
Inlet	1	6"	B.W.	SA-106B	332"	SA-285-C	Welded
Vent/Drain	2	3/4"	SWBC	SA-182	3000#		Welded

17. Inspection Manholes, No. _____ Size _____ Location _____
Openings Handholes, No. _____ Size _____ Location _____
Threaded, No. _____ Size _____ Location _____

18. Supports: Skirt No (Yes or No) Lugs 6 (Number) Legs _____ (Number) Other _____ (Describe) Attached Shell-Welded (Where & How)

19. Remarks #10-84 Degasifier steam heater TEMA Type C-E-N
Stone & Webster P.O. #2288-31 Mark #2 SAS - #218
Unit to be installed in the State of Pennsylvania
Atlas Job #2752-2

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster Eng. Corp. P.O. Box 2325 Boston, Mass.

Stress analysis report on file at N/A

Design specifications certified by Carl F. Andreone Prof. Eng. State Mass. Reg. No. 26496

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

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

Date January 16, 19 79 Signed Atlas Ind. Mfg. Co. (Manufacturer) By Frank W. Johnson

Certificate of authorization Expires March 1, 1979 Certificate of Authorization No. N-1317

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Atlas Industrial Manufacturing Company at 81 Somerset Pl. Clifton, N.J.

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of New Jersey and employed by Lumbermens Mutual Casualty of Long Grove, Ill. have inspected the pressure vessel described in this Manufacturer's Data Report on January 9, 19 79, 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 VIII.

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

NB 2388
PA DESIGN BY 1913
DESIGN 1/26/77 NJ 848

Date January 16, 19 79

Commissions _____ (National Board, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____ have been inspected by me and that to the best of my knowledge and belief the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section VIII. The described vessel was also tested hydrostatically to a pressure test of _____ psi.

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

Date _____ 19 _____

Inspector's Signature

Commissions _____ (National Board, State, Province and No.)

Printed in U.S.A. (8-72)

Form No. 732

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 04-24-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

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

Shippingport, PA 15077 (Address) — MWR#034826 (Repair Organization P.O. No., Job No., etc.)

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

Shippingport, PA 15077 (Address) — Authorization No. —
Expiration Date —

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, —— Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Target Rock	3	N/A	2SWS-SOV -110A	1984	Repaired	YES

7. Description of Work Tack welded body to bonnet

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form attached. Valve was disassembled for cleaning.

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 [signature] Senior Eng Date May 25, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 12/13/94 to 5/25/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB7509 (NISBIS) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date MAY 25 19 95

(12/82)

SERIAL NO: 3
MARK NO: 2SWS-SOV130A
TYPE: 63C-012
COMMENTS:

2BV-1

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 Target Rock Corporation 1966E Broadhollow Rd E. Farmingdale, N Y
(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)	63C	3 and 4		63C-012	2		1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5 SERVICE WATER ISOLATION
QUENCH SPRAY SODIUM HYDROXIDE INJECTION
(Brief description of service for which equipment was designed)

6 Design Conditions 85 psi @ 120 °F or Valve Pressure Class 150 (1)
(Pressure) (Temperature)

7 Cold Working Pressure 230 psi at 100°F

8 Pressure Retaining Pieces

Item No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	ASME SA 182F 316L	Carmel Forge	
		DUQUESNE LIGHT CO. STONE & WEBSTER ENG. CORP. BEAVER VALLEY UNIT 2	
		P.O. 12311 P.I. NO. 2BV-130	

(1) For manually operated valves only

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 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.

TARGET ROCK

(10/77) This form (800037) 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
(a) Bolting			
(a) 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.	

6. Hydrostatic test 350 psi Disc 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. 1, Edition 1980
Addenda Summer 1981 (Date) Code Case No. ----- Date 5-7-85

Signed Target Rock Corporation (or Certificate Holder) By G. Abruzzo, Mgr. of Quality

Our ASME Certificate of Authorization No. 1947 to use the N (Type) 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) R.P. Pfriemer, John F. Rerkin

PE State CT, PA Reg. No. 8803, 30584-E

Stress analysis certified by (1)

PE State Reg. No.

(1) Signature not required. Last 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 5/7 19 85 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 5/7 19 85 Commissions NEW YORK STATE COMMISSION NO. 2288
AUTHORIZED IN Penn, Ohio & Conn.
(Nat'l Bd. (incl. Endorsements) and State or Prov. and No.)

Form No. 733

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 04-24-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#034827 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. ,

Expiration Date ,

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Target Rock	4	N/A	2SWS-SOV 130B	1984	Repaired	YES

7. Description of Work Machined plug and tack welded bonnet to body

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form 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 [signature] Senior Eng Date May 9, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 12/14/94 to 5/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert J. Cimock Commissions NB 7509 (NISBIS) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date MAY 11 19 95

(12/82)

SERIAL NO: 4
MARK NO: 2SWS-SOV130B
TYPE: 83C-012
COMMENTS:

2BV-719

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: Target Rock Corporation 1966E Broadhollow Rd E. Farmingdale, N.Y.
(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	3 and 4		83C-012	2		1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. SERVICE WATER ISOLATION
QUENCH SPRAY SODIUM HYDROXIDE INJECTION
(Brief description of service for which equipment was designed)

6. Design Conditions: 85 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	Carpol Forge	
		DUQUESNE LIGHT CO. STONE & WEBSTER ENG. BEAVER VALLEY UNIT 2	
		P.O. 12341 P.O. NO. 80-	
		MARK NO. 2SWS-SOV130B TARGET ROCK	

(1) For manually operated valves only

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½ x 11 in., (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 (B0080) 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) Bottom			
(d) Other Parts			
Bonnet	ASME SA 479 316	Universal Cyclops	
Disc	ASME SA 564 GR 630 17x4 PH	Universal Cyclops	
Indicator Tube	ASME SA 479 316	Joslyn Stainless Steel	
Seat Insert	ASME SA 479 316L	Carpenter Tech.	

6 Hydrostatic test 350 psi Disc 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. 1, Subsection NB, Edition 1980 Addenda Summer 1981 Code Case No. ----- Date 5-7-84

Signed Target Rock Corporation By G. Abruzzo, Mgr. of Quality

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

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) R.F. Pfrimmer, John F. Narkin

PE State VA Reg. No. 8803, 30388-E

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 5-7-84 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 5-7-84 NEW YORK STATE COMMISSION NO. 2268

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

Form No. 738

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 04-26-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#022559 (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 Chemical and Volume Control (Class 2)

5. (a) Applicable Construction Code Section III 1974 Edition, --- Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Plug Valve	Atwood-Morrill	1-18149 -02	N/A	2CHS-MOV -100A	1984	Repaired	YES

7. Description of Work Replaced cover capscrews

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form 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] (Owner or Owner's Designee, Title) Senior Eng Date May 12, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8-16-93 to 5-15-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

[signature] (Inspector's Signature) Commissions [illegible] (National Board, State, Province, and Endorsements)

Date 5/15 19 95

(12/82)

Form No. 739

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 04-27-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

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

   Shippingport, PA 15077 (Address) — MWR#022560 (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 Chemical and Volume Control (Class 2)

5. (a) Applicable Construction Code Section III 1974 Edition, — Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Plug Valve	Atwood-Morrill	2-18149 -02	N/A	2CHS-MOV -100B	1984	Repaired	YES

7. Description of Work Replaced cover capscrews

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form 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 Eng (Owner or Owner's Designee, Title) Date May 12, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8-16-94 to 5-15-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] (Inspector's Signature) Commissions NB 8214 PA 12245 (National Board, State, Province, and Endorsements)

Date 5/15/95

(12/82)

SERIAL NO: 2-18149-02
MARK NO: 2CHS-MOV100B
TYPE:
COMMENTS:

2BV-091

FORM NPV-1 (9) CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code Section III Div 1 - REVISED COPY

1 Manufactured by Atwood & Morrill Co. 25 Canal Street, Salem, MA 01970
(Name and Address of N Certificate Holder)

2 Manufactured for Stone & Webster for Duquesne Power & Light
(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 (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)	Body	1-18149-02	N/A	18149-02	2	N/A	1984
(2)	Valve	2-18149-02		Rev. 5			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

* NPV-1 revised because original bolting was not certified in accordance with ASME Sect. III requirements. New bolting was installed at the site under direction of Atwood & Morrill Co. service personnel. Atwood & Morrill Co., Inc. cannot certify the integrity of cover seal as valves were not hydro tested after the installation of replacement bolting. Installation of replacement bolting was witnessed by Ray Welsh of Hartford Steam Boiler Inspection & Insurance Co., the site ANI. Original NPV-1 form signed by Brian Sullivan on 5/30/84.

6. Boron Recovery
(Brief description of service for which equipment was designed)

6. Design Conditions 615 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure 615 psi at 100°F

8. Pressure Retaining Pieces

Part No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	SA 351 Gr. CF8	Dresser Alloy	F29023-2, F29023-1
Plug	SA 351 Gr. CF8M	Lebanon Steel Fdry.	22098-98, 22104-13
Cover	SA 351 Gr. CF8	Lebanon Steel Fdry.	S1656-33, S1656-100

DUQUESNE LIGHT CO.
STONE & WEBSTER ENG.
BEAVER VALLEY UNIT 2
2BV-91

(1) For manually operated valves only

*Supplemental information in the form of lists, sketches, or drawings may be used provided the size is 8½ x 11, the information in items 1 through 6 on this Data Report is included on each sheet, (2) each sheet is numbered and the number of sheets is recorded at the top of this form, and (3) each supplemental sheet shall be signed by the Certificate Holder and the Inspector.

FORM NPV-1 (Back)

Item No.	Material Spec. No.	Manufacturer	Remarks
Hot Bolting			
Cover Screws	SA 193 Gr. B6	Standard Nut & Bolt	Ht. # B640975
Hot Hydro Pump			
N/A			

6. Hydrostatic test 1500 psi. Max Differential test pressure 795 psi

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that the parts, or valve, described in this data report conform to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Subsec. NB

Address Stamp ... Code Case No. N/A

Signed Atwood & Morrill Co., Inc. (Certificate Holder) by ...

Our ASME Certificate of Authorization No. N-2606 to code for ... expires 6/7/85

CERTIFICATION OF DESIGN

Design information on file at Stamp & Waterman N/A

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

Design specifications certified by (1) Russian Royalgas

P.E. State MA Reg. No. 28246

Stress analysis certified by (2) N/A

... Reg. No. N/A

... has seven pages.

CERTIFICATE OF SHOP INSPECTION

... of valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and ... of Massachusetts ... and employed by H.S.B.I. & I. Co. ... have inspected the parts, or valve, described in this Data Report on ... 19 84 ... and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this part, 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 11-16 ... 19 84

... Commissions MA 1474 ... NB 1073

Form No. 740

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 04-27-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#022561 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. ,
   Expiration Date ,

4. Identification of System Instrument Air (Class 2)

5. (a) Applicable Construction Code Section III 1974 Edition, --- Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Plug Valve	Atwood-Morrill	1-18148 -03	N/A	2IAC-MOV -130	1984	Repaired	YES

7. Description of Work Replaced cover capscrews

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this r[illegible]acement 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 May 9, 19 95
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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 1/3/95 to 5/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

Robert J. Cimock Commissions NB7509 (NISBIS) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 11, 19 95

(12/82)

MARK NO: 2IAC-MOV130
TYPE:
COMMENTS:

2BV-091

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 * REVISED COPY

1. Manufactured by Atwood & Morrill Co., Inc., 285 Canal Street, Salem, MA 01970
(Name and Address of N Certificate Holder)
2. Manufactured for Stone & Webster for Duquesne Power & Light
(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 (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)	3"Plug Valve	1-18149-03	N/A	18149-03 Rev. 4	2	N/A	1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

* NPV-1 revised because original bolting was not certified in accordance with ASME Sect. III requirements. New bolting was installed at the site under direction of Atwood & Morrill Co. service personnel. Atwood & Morrill Co., Inc. cannot certify the integrity of cover seal as valve was not hydro tested after the installation of replacement bolting. Installation of replacement bolting was witnessed by Ray Welsh of Hartford Steam Boiler Inspection & Insurance Co., the site ANI. Original NPV-1 for signed by Brian Sullivan on 5/30/84.

5. Instruments Air
(Brief description of service for which equipment was designed)

6. Design Conditions 275 (pressure) psi 100 (temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure 275 psi at 100°F
8. Pressure Retaining Pieces

Mark No	Material Spec No	Manufacturer	Remarks
(a) Castings			
Body	SA 351 Gr CF8	Quaker Alloy	E2023-3
Plug	SA 351 Gr CF8M	Lebanon Steel Fdry.	2209L-k2
Cover	SA 351 Gr. CF8	Lebanon Steel Fdry.	8703A-194
(b) Forgings			
N/A			

(1) For manually operated valves only

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

FORM NPV-1 (Back)

Mark No	Material Spec. No	Manufacturer	Remarks
(c) Bodies			
Cover Screws	SA 193 Gr. B6	Standard Nut & Bolt	Ht.# B640975
(d) Other Parts			
N/A			

8. Hydrostatic test 625 psi Disc Differential test pressure 305 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. 1, Edition 1978
Addenda None (Date) Code Case No N/A Date 12/13/84

Signed Atwood & Morrill Co., Inc. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-2606 to use the N (Stamp) symbol expires 6/13/86 (Date)

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster

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

Design specifications certified by (1) Pietro Raysircar

PE State PA Reg. No. 28246-E

Stress analysis certified by (1) N/A

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

(1) Signatures not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the pump, or valve, described in this Data Report on 5-80 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 6-10 19 84

[signature] (Inspector)

Commissions MA 1382 WC 3243 (Nat'l Bd. State, Prov. and No.)

Form No. 741

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 04-27-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#022562 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. —

   Expiration Date —

4. Identification of System Instrument Air (Class 2)

5. (a) Applicable Construction Code Section III 1974 Edition, — Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Plug Valve	Atwood-Morrill	1-18149 -04	N/A	2IAC-MOV -133	1984	Repaired	YES

7. Description of Work Replaced cover capscrews

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form 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 Engr. Date May 4, 1995
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 1/5/95 to 5/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert J Cimock Commissions NB 7509 (NJSBIS) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date MAY 8 1995

(12/82)

MARK NO: 2IAC-MOV133
TYPE:
COMMENTS:

2BV-09:

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 Atwood & Morrill Co., Inc. 285 Canal Street, Salem, MA 01970
(Name and Address of N Certificate Holder)

2 Manufactured for Stone & Webster for Duquesne Power & Light
(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 (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)	4" Plug Valve	1-18149-04 2-18149-04	N/A	18149-04 Rev. 4	2	N/A	1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Instrument Air
(Brief description of service for which equipment was designed)

6. Design Conditions 275 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure 275 psi at 100°F

8. Pressure Retaining Pieces

Mark No	Material Spec No	Manufacturer	Remarks
(a) Castings			
Body	SA 351 Gr. CF8	Lebanon Steel Fdry.	3044L-5, 3044L-11
Plug	SA 351 Gr. CF8M	Lebanon Steel Fdry.	780C-54, 9804D-11
Cover	SA 351 Gr. CF8	Lebanon Steel Fdry.	9158-39, 8904A-44
(b) Forgings			
N/A			

(1) For manually operated valves only

*Supplemental information on this form or data, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 6 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.

This form (B0800371) may be obtained from the Order Dept., ASME, 345 E 47th St., New York, N.Y. 10017

Duquesne Light Co, Beaver Valley Unit 2
P.O. No. 2BV-41, Plug Valves, All Sizes
Manufactured by Atwood & Morrill Co. Inc
285 Canal St, Salem, MA 01970
2BV-09 Mod 85/84

FORM NPV 1 (Back)

Mark No	Material Spec No	Manufacturer	Remarks
(c) Bolting			
Cover Screws	SA 193 Gr. B6	Standard Nut & Bolt	Ht # 33352
(d) Other Parts			
N/A			

9 Hydrostatic test 425 psi Disc Differential test pressure 305 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 1, Edition 1974

Addenda None (Date) Code Case No N/A Date N/A

Signed Atwood & Morrill Co., Inc. (N Certificate Holder) By John M. Conroy Engineer 6/27/84

Our ASME Certificate of Authorization No N-2606 to use the N (stamp) symbol expires 6-13-86 (Date)

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster

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

Design specifications certified by (1) Partho Ravsircar

PE State PA Reg. No. 28246-E

Stress analysis certified by (1) N/A

PE State N/A Reg. No N/A

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by H S B I & I Co. of Hartford, CT. have inspected the pump, or valve, described in this Data Report on 6-27 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 6-27 19 84 Signed Boiler Inspector Commissions #8128 NC 2564 (Nat'l Bd. State, Prov. and No.)

Form No. 742

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 04-27-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#022563 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. *

   Expiration Date *

4. Identification of System Instrument Air (Class 2)

5. (a) Applicable Construction Code Section III 1974 Edition, --- Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Plug Valve	Atwood-Morrill	1-18149 -04	N/A	2IAC-MOV -134	1984	Repaired	YES

7. Description of Work Replaced cover capscrews

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form attached

CERTIFICATE OF COMPLIANCE

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

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

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

Signed [signature] Sr. Engr. Date May 4, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 1/5/92 to 5/8/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions NB 7509 (NISBIS) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date MAY 8 19 95

(12/82)

MARK NO: 21AC-MOV134
TYPE:
COMMENTS:

2BV-09:

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 Atwood & Morrill Co., Inc. 285 Canal Street, Salem, MA 01970
(Name and Address of N Certificate Holder)
2. Manufactured for Stone & Webster for Duquesne Power & Light
(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 (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)	4" Plug	1-18149-04	N/A	18149-04	2	N/A	1984
(2)	Valve	2-18149-04		Rev. 4			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Instrument Air
(Brief description of service for which equipment was designed)

6. Design Conditions 275 psi (Pressure) @ 100 °F (Temperature) or Valve Pressure Class N/A (1)
7. Cold Working Pressure 275 psi at 100°F
8. Pressure Retaining Pieces

Item No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	SA 351 Gr. CF8	Lebanon Steel Fdry.	30441-5, 30441-11
Plug	SA 351 Gr. CF8M	Lebanon Steel Fdry.	780C-54, 98040-11
Cover	SA 351 Gr. CF8	Lebanon Steel Fdry.	9158-39, 8904A-44

Duquesne Light Co, Beaver Valley Unit 2
P.O. No. 2BF-91, Purchase Req. No. 8-1620
Manufactured by Atwood & Morrill Co. Inc
285 Canal St, Salem, MA 01970
TAG 21AC-MOV134 Rev. 11/14

(1) For manually operated valves only.

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

FORM NPV-1 (10/88) This form (00888079) 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			
Cover Screws	SA 193 Gr. B6	Standard Nut & Bolt	Ht.# 33352
(d) Other Parts			
N/A			

8. Hydrostatic test 425 psi Class Differential test pressure 305 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. 1, Edition 1974

Addenda Winter Code Case No. N/A Date N/A

Signed Atwood & Morrill Co., Inc. By [signature] 6/27/84

Our ASME Certificate of Authorization No. N-2606 to use the N symbol expires 6-13-86

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster

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

Design specifications certified by (1) Partho Sevsircar

PE State PA Reg. No. 28246-E

Stress analysis certified by (1) N/A

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

(1) Name and registered. Last name only.

CERTIFICATE OF SHOP INSPECTION

[illegible], holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by Massachusetts and employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the pump, or valve, described in this Data Report on June 27 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 6-27, 84 Commissions [illegible] MC 2868

Inspector's Signature (National Board, State, Prov. and No.)

Form No. 748

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 04-21-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 1

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#030131 (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 Recirculation Spray (Class 2)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, NC-5110 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Pump	Bingham-Willamette	23043	NB1192	2RSS-P21A	1987	Repaired	YES

7. Description of Work Replaced one casing stud and nut

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

FORM NIS-2 (Back)

9. Remarks: N/A

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) Senior Engr Date May 17, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts and states have inspected the components described in the Owner's Report during the period 4-5-94 to 5-18-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] (Inspector's Signature) Commissions NB 8314 PA# 22445 (National Board, State, Province, and Endorsements)

Date 5-18- 19 95

(12/82)

Form No. ___

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 05-16-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#037526 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Mainl. Programs (Name) Type Code Symbol Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. ___

   Expiration Date ___

4. Identification of System Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1974 Edition, W'75 Addenda, N242-1 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Gate Valve	Westinghouse	*	W26603	2RCS-MOV 537	1984	Repaired	YES

7. Description of Work Machined valve disc.

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

* S/N 03003GM99FNH00G00W750011

FORM NIS-2 (Back)

9. Remarks: NVP-1 form 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 [signature] Senior Eng. Date May 17, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 12-23-94 to 5-18-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions NB 8314 A.N.I. R2245
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 5-18 19 95

(12/82)

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

WPS-5506G (As Required by the Provisions of the ASME Code, Section III, Div. 1) S/O H272

1. Manufactured by Westinghouse Electric Corp., EMD, Cheswick, Ave., Cheswick, PA 150[illegible]
(Name and Address of Manufacturer)

2. Manufactured for W Nuclear Technology Div., Nuclear Center Box 355, Pittsburgh, PA [illegible]
(Name and Address of Purchaser or Owner)

3. Location of Installation Beaver Valley No. 2
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 2.624 (inch) Outlet Size 2.624 (inch)

	(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)	03003GH98FNH00G00W750011		NA	9752D86	1	W26603	198A
(2)			Ref. Dwg.	1D99836			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. 3 in. - 2035 Motor Operated Gate Valve Valve I.D. 3GN88FNH
(Brief description of service for which equipment was designed)
Valve Loc. 8000C

6. Design Conditions 2500 (Pressure) psi 650 (Temperature) °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure 4187 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.		Manufacturer	Remarks
(a) Castings				
(b) Forgings				
Body S/N 8171	SA 182	GR 304	StlImp&Frg.Co.	Ht. No. A19536
Bonnet S/N 8939	SA 182	GR 304	StlImp&Frg.Co.	Ht. No. 84380
Disc S/N 7779	SA 182	GR 304	Cann&SaulStl.Co.	Ht. No. 30250

(1) For manually operated valves only.

OV

* 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 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.

(3/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

VOP - PAGE 5

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange:			
Studs	SA 453 GR 660	Safety Socket	Heat No. 616089
Nuts	SA 194 GR 6	J. Dyson & Sons	Heat No. A19064
(d) Other Parts			

9. Hydrostatic test 6285 psi. Min. Disc Differential Test Pressure 2750 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. 1, Edition 1974, Addenda W75 (Date), Code Case No. N242-1, Date 10-17-84

Signed Westinghouse-EMD, Cheswick, PA (Name of Manufacturer) by P. L. Powell

Our ASME Certificate of Authorization No. 1365 to use the N (N) (NPV) symbol expires May 14, 1985 (Date)

CERTIFICATION OF DESIGN

Design information on file at Westinghouse-EMD, Cheswick, PA

Stress analysis report (Class 1 only) on file at Westinghouse-EMD, Cheswick, PA

Design specifications certified by (1) H. P. Leonard

PE State PA Reg. No. 23938-E

Stress analysis certified by (1) G. L. Schlemmer

PE State PA Reg. No. 23963-E

(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 Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 10-17 19 84 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 10-17 19 84

Paul R Jaune (Inspector)

Commissions NB4325 Pa 1760 (Nat'l Bd. State, Prov. and No.)

Form No. 753

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 05-10-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#026083 (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 Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Kerotest	---	---	2RCS-633	---	Replaced	YES
Globe Valve	BW/IP International	95EPO225	N/A	2RCS-633	1995	Replacement	YES

7. Description of Work Replaced valve.

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

9. Remarks: Replacement was performed in accordance with Code Case N-416-1.

NPV-1 form 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 Eng Date May 15, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 12/21/93 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions NB 3174 PA 12445
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

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 EG/IF 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 STA. SHIPPINGPORT, PA. 15077
(name and address)

4. Model No., Series No., or Type GLOBE Drawing W-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.

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.

Form No. 754

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 04-27-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

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

Shippingport, PA 15077 (Address) — MWR#025310 (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 Chemical and Volume Control (Class 2)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Gate Valve	Westinghouse	W720011	—	2CHS-MOV310	—	Replaced	YES
Gate Valve	Westinghouse	*	W12038	2CHS-MOV310	1977	Replacement	YES

7. Description of Work Replaced Valve

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

* S/N 03000GM88FNH00000W720008

FORM NIS-2 (Back)

9. Remarks: Replacement was performed in accordance with Code Case N-416-1.

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. Date May 15 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 11-19-93 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions NB 8314 & all PA 2224
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

...DATA REPORT FOR ...

As Required by the Provisions of the ASME Code ...

1. Manufactured by Westinghouse Electro-Mechanical Division
Chestnick Avenue, Chestnick, PA. 15021 Order No. JH211
(Name & Address of Manufacturer)

2. Manufactured for Duquesne Light Company
435 Sixth Avenue, Pittsburgh, PA. 15222 Order No. PO(M)30554-ADS-231
(Name and Address)

3. Owner Duquesne Light Company

4. Location of Plant Duquesne Light - Beaver Valley 2

5. Pump or Valve Identification 0300000M38FN10000004720003
Valve I.D. 3SI98F1A
3"-1500 Motor Operated Gate Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. 5050092 Prepared by J. S. Zelnick

(b) National Board No. H12033

6. Design Conditions 2500 (Pressure) psi 650 (Temperature) °F

POOR QUALITY ORIGINAL

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

Edition 1971, Addenda Date W72, Case No. 1553-1

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body S/N 370	SA 182 GR F316	Std. Forg.	
Bonnet S/N 3138	SA 182 GR F316	Carpenter	
Disc S/N 2612	SA 182 GR F316	Carpenter	
Stem S/N 008	SA 564 GR 630	Carpenter	

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1 through 6 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.

Mark No.	Material Spec. No.	Name of Part	Size
(c) Studs			
Main Flange Studs	SA 453 GR 660	B.E.C. Corp.	
Main Flange Nuts	SA 194 GR B6	Valley Forge	
(d) Other Parts			

P. Hydrostatic test 5600 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division

Stress analysis report on file at Westinghouse Electro-Mechanical Division

Design specifications certified by James C. DiPerna (1) Prof. Eng. State PA Reg. No. E

Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State PA Reg. No.

(1) Signature not required. List name only.

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

Date 3-29 1977 Signed Westinghouse Electro-Mechanical Division (Manufacturer)

Certificate of Authorization No. 1335 expires May 14, 1979

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 [illegible] of Long Grove, Illinois have inspected the [illegible] described in this Data Report on MAR 15 1977, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of the ASME Code.

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 MAR 22 1977

POOR QUALITY ORIGINAL

C.R. Miller (Inspector) Commissions [illegible] (National Board, State, Province and No.)

Printed in U.S.A. (8-77) This form (E-1) is authorized by [illegible]

Form No. 783

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 04-27-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#031728 (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 1974 Edition, S'74 Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Atwood & Morrill	3-13540 -28	N/A	2SVS-80	1983	Replaced	YES
Nozzle Check Valve	Enertech	10330	N/A	2SVS-80	1995	Replacement	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: Replacement was performed in accordance with Code Case N-416-1. Construction Code for flange welds was Section III 1971E-W'72A.

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 Date May 12, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6-1-94 to 5-15-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions [illegible]
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 5-15 19 95

(12/82)

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR [illegible] 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 DUQUESNE LIGHT COMPANY Beaver Valley Station PP-Box 4 Shippingport, PA 15077
(name and address)

4 Model No., Series No., or Type Check DRV-Z Nozzle Drawing PD97451 Rev. A CRN None

5 ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) N/A (Code Case no.)

6 Pump or valve Valve Nominal inlet size 6" (in.) Outlet size 5" (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.
10330	None	ICC-002	None	GYW-N-017
10331	None	ICC-001	None	GYW-N-018
10332	None	ICC-003	None	GYW-N-016

* 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. 10330 thru 10332

8. Design conditions 1100 (pressure) psi 560 (temperature) °F or valve pressure class 600

9. Cold working pressure 1480 psi at 100°F

10. Hydrostatic test 2225 psi. Disk differential test pressure 1480 psi

11. Remarks: Qty: 3

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

Design Report certified by Ira Jay 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 10/26/96

Date 2/14/95 Name Enertech (N Certificate Holder) Signed Ronald Hicks (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 State of California have inspected the pump, or valve, described in this Data Report on Feb 14, 1995, 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 2/14/95 Signed [signature] (Authorized Inspector) Commissions Ca. 1234/Pa. WC03379 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.

(1) For manually operated valves only.

Form No. 784

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 04-27-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

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

   Shippingport, PA 15077 (Address) — MWR#031729 (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 1974 Edition, S'74 Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Atwood & Morrill	1-13540 -28	N/A	2SVS-81	1984	Replaced	YES
Nozzle Check Valve	Enertech	10332	N/A	2SVS-81	1995	Replacement	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: Replacement was performed in accordance with Code Case N-416-1. Construction Code for flange welds was Section III 1971E-W'72A.

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. Date May 12, 19 95
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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6-1-94 to 5-15-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions NB 8214 & N.I. Bd 2295
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-15 19 95

(12/82)

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
DUQUESNE LIGHT COMPANY (name and address of N Certificate Holder)

2 Manufactured for P.O. Box 345, Rt. 168, Shippingport, PA 15077
DUQUESNE LIGHT COMPANY (name and address of Purchaser) Beaver Valley Station

3 Location of installation PP-Box 4 Shippingport, PA 15077
DRV-Z Nozzle (name and address)

4 Model No., Series No., or Type Check Drawing PD97451 Rev. A CRN None

5 ASME Code, Section III, Division 1: 1974 (edition) | Summer '74 (addenda date) | 2 (class) | N/A (Code Case no.)

6 Pump or valve Valve Nominal inlet size 6" (in.) Outlet size 6" (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.
10330	None	ICC-002	None	GYW-N-017
10331	None	ICC-001	None	GYW-N-018
10332	None	ICC-003	None	GYW-N-016

* 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. 10330 thru 10332

8. Design conditions 1100 (pressure) psi 560 (temperature) °F or valve pressure class 600 (1)

9. Cold working pressure 1480 psi at 100°F

10. Hydrostatic test 2225 psi. Disk differential test pressure 1480 psi

11. Remarks: Qty: 3

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

Design Report certified by Ira Jay 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 10/26/96

Date 2/14/95 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 State of California have inspected the pump, or valve, described in this Data Report on Feb 14, 1995, 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 2/14/95 Signed [signature] (Authorized Inspector) Commissions Ca. 1234 / Pa. WC03379 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.

(1) For manually operated valves only.

Form No. 7B5

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 04-27-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#031730 (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 1974 Edition, S'74 Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Atwood & Morrill	2-13540 -28	N/A	2SVS-82	1983	Replaced	YES
Nozzle Check Valve	Enertech	10331	N/A	2SVS-82	1995	Replacement	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: Replacement was performed in accordance with Code Case N-416-1. Construction Code for flange welds was Section III 1971E-W'72A

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) Senior Eng Date May 12, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6-1-94 to 5-15-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] (Inspector's Signature) Commissions [illegible] (National Board, State, Province, and Endorsements)

Date 5-15 19 95

(12/82)

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 DUQUESNE LIGHT COMPANY Beaver Valley Station PP-Box 4 Shippingport, PA 15077
(name and address)
4. Model No., Series No., or Type DRV-Z Nozzle Check Drawing PD97451 Rev. A CRN None
5. ASME Code, Section III, Division 1: 1974 (edition) Summer '74 (addenda date) 2 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 6" (in.) Outlet size 6" (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.
10330	None	ICC-002	None	GYW-N-017
10331	None	ICC-001	None	GYW-N-018
10332	None	ICC-003	None	GYW-N-016

* 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.

2

FORM NPV-1 (Back – Pg. 2 of 2)

Certificate Holder's Serial No. 10330 thru 10332

8. Design conditions 1100 (pressure) psi 560 (temperature) °F or valve pressure class 600 (1)

9. Cold working pressure 1480 psi at 100°F

10. Hydrostatic test 2225 psi. Disk differential test pressure 1480 psi

11. Remarks: Qty: 3

CERTIFICATION OF DESIGN

Design Specification certified by Francis W. Gardner P.E. State PA Reg. no. 036614-E

Design Report certified by Ira Jay 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 10/25/96

Date 2/14/95 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 State of California have inspected the pump, or valve, described in this Data Report on Feb 19, 1995, 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 2/14/95 Signed [signature] (Authorized Inspector) Commissions Ca. 1234/Pa. WC03379 (Nat'l. Bd. (incl. endorsements) and state or prov. and no

(1) For manually operated valves only.

Form No. 786

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 05-11-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

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

   Shippingport, PA 15077 (Address) — MWR#031725 (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 Main Steam (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, 1567, 1672 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Walworth	D66335	1832	2MSS-18	1978	Repaired	YES
Disc	Crane Valves	B0809	N/A	—	1990	Replacement	YES

7. Description of Work Replaced valve disc.

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

FORM NIS-2 (Back)

9. Remarks: _____

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 Date May 16, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6-1-94 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions NB 6314 PA. No. PA 2245
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

DC9147 B

FORM N-4 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PARTS AND APPURTENANCES*

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

Not To Exceed One Day's Production

Pg. ____ of ____

1. Manufactured and certified by CRANE-ALOYCO, INC., 12 EAST DEVONSHIRE, HOMESTEAD, IL 60461-1349 15179

2. Manufactured for DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURG, PA.

3. Location of Inspection BEAVER VALLEY-UNIT 1, P.O. BOX A, SHIPPINGPORT, PA 15077

4. Type CA00294, REV.B | SA105 | 80,100 | N/A | 1990

5. ASME Code, Section III: 1971 | SUMMER 1972 | 2 | N/A

6. Fabricated in accordance with Cert. Basis (Div. 2 only) N/A Revision N/A Date N/A
CAI S.O.#W01520-001, CUST. P.O.#D091478, C/O#01

7. Remarks: FOR: 3"-1250#WE, 6004 SWING CHECK VALVE, ASS'Y. DWG.#C-1954-9, REV.G, IT.#3

APC.) DISC. P/N #46CA00294

SUPPLIER/MFR.: COULTER STEEL & FORGE COMPANY, HT.#29441

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)	BQ809	N/A	(26)		
(2)	BQ810	N/A	(27)		
(3)	BQ811	N/A	(28)		
(4)	BQ812	N/A	(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 (optional) at temp. °F

*Supplementary 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.

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

ALAN L. LAURENTI — PA — Reg. no. 09234

N/A — N/A — Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N-2077 — Expires APRIL 9, 1993

Date 9/26/90 — Name CRANE-ALOYCO, INC. (N Certificate Holder) — Signed (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 HAINES and employed by *PROTECTION MUTUAL of NORWOOD, MASS. have inspected these items described in this Data Report on 9-26-90, 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 9/26/90 — Signed C M O'Keefe (Authorized Inspector) — Commissions NB 917 (Nat'l. Bd. and/or State or Prov. and No.)

*FACTORY MUTUAL SYSTEM

Form No. 787

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 05-25-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 1

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

   Shippingport, PA 15077 (Address) — MWR #s 037280, 033658, 040037 (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 Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, See N-1 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
2RCS-SG21B	Westinghouse	DMGT-1962	W-16699	"B" Steam Generator	1977	Repaired	YES

7. Description of Work Plugged tubes

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

* VT Exam

FORM NIS-2 (Back)

9. Remarks: Plugged 24 tubes per MWR #037280. Drilled 2" inspection port per MWR #40037 (DCP-1465).

Replaced 2 studs and nuts #12 and #16 in Hot Leg Primary Manway.

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] (Owner or Owner's Designee, Title) Senior Eng. Date May 30, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/26/95 to 5/31/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

Robert Cusick (Inspector's Signature) Commissions NB-7509 (NBIS IS) PA2162 (National Board, State, Province, and Endorsements)

Date MAY 31, 19 95

(12/82)

Form No. 788

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 05-16-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#040851, 040066, 041730 (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 Fuel Cooling (Class 2)

5. (a) Applicable Construction Code Section III 1971 Edition, S'73 Addenda, ----- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Transfer Tube	Stearns Roger	C-13790 -3655	1285	2FNC-TFT21	1975	Repaired	YES

7. Description of Work Replaced blind flange

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

FORM NIS-2 (Back)

9. Remarks Fuel Transfer Tube blind flange was replaced with a modified design. N-2 Report attached

CERTIFICATE OF COMPLIANCE

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

(Repair or replacement)

Type Code Symbol Stamp 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 May 18, 19 95

(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4-27-95 to 5-18-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature]
Inspector's Signature

Commissions NB 5314 & N.I. 8022-5
National Board, State, Province, and Endorsements

Date 5-18 19 95

(12/82)

FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by Stearns-Roger Corp, 600 W. Bates, Englewood, CO 80110
(Name and address of manufacturer of part)

(b) Manufactured for Westinghouse Electric, P. O. Box 355, Pittsburgh, PA 15230
(Name and address of manufacturer of completed nuclear vessel)

2. Identification-Manufacturer's Serial No. of Part C-13790-3655 Nat'l. Bd. No. 1285

(c) Constructed According to Drawing No. 22406-3 Drawing Prepared by Stearns-Roger Corp

(d) Description of Part Inspected Transfer Tube

(e) Applicable ASME Code: Section III, Edition 1971, Addenda date Sm. 73, Code No. --, Class II

3. Remarks: For transfer of Nuclear Fuel Cell from fuel storage building
(Brief description of service for which vessel part was designed)
to reactor building. *NOTE: Leak Detector angle removed
flange to shell seam re-radiographed and leak detector
angle replaced after original code stamping.

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 vessel Design Specification and Stress Report.)

Date 5 2 3 1975 Signed Stearns-Roger Inc. By (illegible)
(Manufacturer)

Certificate of Authorization Expires March 3, 1978 Certificate of Authorization No. 988

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Not Applicable

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 Colorado and employed by The Hartford Steam Boiler Insp & Ins Co, Hartford, Connecticut have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 7-29 19 75, 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.

Date 7-29 19 75

R P Hennessy Commissions NB 7211
Inspector's Signature National Board, State, Province and No.

FORM U-2 (back)

Items 6-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA240-304 (Kind & Spec. No.) T.S. 75,000 (Min. of Range Specified) Nominal Thickness .375 in. Corrosion Allowance 0 in. Diam. 1 ft. 8 in. Length 17 ft. 3 in.

5. Seams: Long Dbl Butt N.T.[1] NO R.T. 100% Efficiency 100 %

Girth Dbl Butt N.T.[1] NO R.T. 100% No. of Courses 2

6. Heads: (a) Material SA182-F304 T.S. 75,000 (b) Material SA182-F304 T.S. 75,000

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conv. or Conc.)
(a) Blind Flg	1.688						27.5	
(b) W.N. Flg	1.688						27.5	

If removable, bolts used SB164-400 CD,85000, 1 1/8, 20 (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure: (Describe as type and width, bar, etc. If bar give thickness, if bolted, describe or sketch.)

8. Design pressure[2] 60 External PSI @ 350°F / 30 Internal psi at 140°F

Drop Weight ____ Charpy Impact ____ ft-lb at temp. of ____ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material ____ (Kind & Spec. No.) Diam. ____ (Subject to pressure) Thickness ____ in. Attachment ____ (Welded, Bolted)

Floating. Material ____ Diam. ____ Thickness ____ in. Attachment ____

10. Tubes: Material ____ O.D. ____ in. Thickness ____ Inches or gage. Number ____ Type ____ (Str. or U)

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

11. Shell: Material ____ (Kind & Spec. No.) T.S. ____ (Min. of Range specified) Nominal Thickness ____ in. Corrosion Allowance ____ in. Diam. ____ ft. ____ in. Length ____ ft. ____ in.

12. Seams: Long ____ N.T.[1] ____ R.T. ____ Efficiency ____ %

Girth ____ N.T.[1] ____ R.T. ____ No. of Courses ____

13. Heads: (a) Material ____ T.S. ____ (b) Material ____ T.S. ____

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								

If removable, bolts used (a) ____ (b) ____ (c) ____ Other fastening ____ (Describe or attach sketch)

14. Design pressure[2] ____ psi at ____ °F

Drop Weight ____ Charpy Impact ____ ft-lb at temp. of ____ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number ____ Size ____ Location ____

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Test	1	50	Cplg	SA182 F304	.197	Integ.[1]	Welded

17. Inspection Openings: Manholes, No. ____ Size ____ Location ____

Handholes, No. ____ Size ____ Location ____

Threaded, No. ____ Size ____ Location ____

18. Supports: Skirt NO (Yes or No) Lugs ____ (Number) Legs ____ (Number) Other ____ (Describe) Attached ____ (Welded or Bolted)

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

This Form is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

Form No. 789

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 04-30-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Name) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#024389 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. Expiration Date

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Gate Valve	Walworth	D-66537	1795	2SWS-MOV -105B	1980	Repaired	YES

7. Description of Work Vendor machined disc and re-hard faced

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

FORM NIS-2 (Back)

9 Remarks NPV-1 form attached Disc was re-hard faced by Crane Valve Co under Purchase Order D136939

NR-1 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.

Type Code Symbol Stamp per NPDAP 8.5 "ASME Section X, pair/Replacement Program"

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

Signed [signature] Senior Eng Date May 2, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/29/95 to 5/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert J. Cimock Commissions NB7509(NISBIS) PA 2162

Inspector's Signature

National Board, State, Province, and Endorsements

Date MAY 6 19 95

(12/82)

FORM NR-1 REPORT OF REPAIR ☒ MODIFICATION ☐ OR INSTALLATION OF REPLACEMENT(S) ☐ TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

P.O. NO. D136939 C/01
S.O. NR40063-002NR

1. Work performed by CRANE VALVES NUCLEAR OPERATIONS (name) (repair organization's P.O. no., job. no., etc.)

104 N. CHICAGO ST., JOLIET, IL 60431 12 E. DEVONWOOD/720 N. PARKWOOD, ROMEOVILLE, IL 60441 (address)

2. Owner DUQUESNE LIGHT COMPANY (name)

P.O. BOX 4 SHIPPINGPORT, PA 15077 (address)

3. Name, address and identification of nuclear power plant BEAVER VALLEY POWER STATION
P.O. BOX 4 SHIPPINGPORT, PA 15077

4. System FEEDWATER

5. a: Component repaired, modified or replaced 16" 150# WEDGE

b: Name of manufacturer WALWORTH COMPANY

★ c: Identifying nos. D66537 (mfr's. serial no.) | 1795 (Nat'l.Bd.No.) | N/A (jurisdictional no.) | 2SWS-MOV105 B (other) | 1980 (year built)

d: Construction Code 1971 (edition) | WINTER 1972 (addenda) | N/A (Code Case(s)) | 3 (Code Class)

6. Section XI - 1983 (edition) | SUMMER 1983 (addenda) | N/A (Code Case(s))

7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made: 1983 (edition) | S83 (addenda) | N/A (Code Case(s))

8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made: 1971 (edition) | W72 (addenda) | N/A (Code Case(s))

9. Design responsibilities WALWORTH COMPANY

10. Tests conducted: hydrostatic ☐ pneumatic ☐ design pressure ☐ pressure _____ psi Code Case(s) N/A

11. Description of work (SEE ATTACHED SHEET)
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)

12. Remarks: *INDICATES VALVE IDENTIFICATION - WEDGE IDENTIFIED BY HT. #998D, FOR A 16" 5202 WE 150# GATE VALVE, ASSY. DWG. NO. SK-1976-4, REV. F, WEDGE DWG. B-1160150, REV. A MATERIAL: ASME SA216 GR. WCB, FACED W/STELLITE #6.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and the repair, modification or replacement of the items described above conforms to Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition.

Certificate of Authorization no. 24 to use the "NR" stamp expires FEB. 17, 1997

Date APRIL 10 19 95 Signed CRANE VALVES NUCLEAR OPERATIONS (repair organization) (authorized representative) (for) MANAGER OF QUALITY ASSURANCE (title)

JEROME A. KUROWSKI, P.E.

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issued by the state or province of ILLINOIS and employed by PROTECTION MUTUAL * of NORWOOD, MA have inspected the repair, modification or replacement described in this report on APRIL 10, 1995 and state that to the best of my knowledge and belief, this repair, modification or replacement has been made in accordance with Section XI of the ASME Code and the National Board rules as defined in the publication NB-102, current edition. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair, modification or replacement described in this report. Furthermore, neither the Inspector nor his employer shall be 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 10, 1995 Signed Charles M Jacobs (Inspector) Commissions NB1065 4N IL1469 OHIO (Nat'l.Bd.No.(including endorsements) state or province and number)

* FACTORY MUTUAL ENGINEERING ASSOCIATION

This form may be obtained from The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229.

NB-81 Rev. 6

SERIAL NO: D-66537
MARK NO: 2SWS-MOV105B
TYPE:
COMMENTS:

2BV-077

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 32750-AAT (004A)

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 15077
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Shippingport, PA 15077
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 16 (inch) Outlet Size 16 (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)	5202 WE	D-66537	N/A	SK-1976-4F	3	1795	1980
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

VALVE
D66537
SERIAL NO.

5. Service Water
(Brief description of service for which equipment was designed)

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body - GA45 P7	SA 216, WCB	Walworth Co.	Sealed Welded Seat
Bonnet - 617A P7	SA 216, WCB	Walworth Co.	CoCrA Faced Seat
Wedge - 996D, P7	SA 216, WCB	Valve Castings	CoCrA Faced Seat
[redacted]			
(b) Forgings			
		DUQUESNE LIGHT COMPANY BEAVER VALLEY UNIT NO. 2 P.O. NO. 28X-77 [illegible] 2241 MOTOR OPERATED CARBON STEEL VALVES (2 1/2 IN. AND LARGER CATEGORY I) [illegible] PREPARED 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 6 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.

004

(Other than 1 Each)

Mark No.	Material Spec. No	Manufacturer	Remarks
(c) Bonnet			
Stud -	DA008 (X69)	SA 193, B7	Wm. Haskell
Nut -	89890 (T.I.)	SA 194 Gr. 2H	R. E. C. Corp.
Other Parts			

6. Hydrostatic test 425 psi. Disc Differential test pressure 300 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. 1, Edition 1971, Addenda Dec. 31, 1972 (Date), Code Case No. N/A, Date 4-24-80

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

Our ASME Certificate of Authorization No. 1951 to use the N (Stamp) stamp expires 12/9/80 (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 PA Reg. No. 016297

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(1) Signature not required. List name only.

VALVE

D66537

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, CT 06102 have inspected the pump, or valve, described in this Data Report on 4-22 1980, 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 I or 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 4-22 1980

M. Cunningham (Inspector)

Commissions NATIONAL PB 2192 (Nat'l Bd., State, Prov. and No.)

Form No. 790

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 04-24-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#034930 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. *
Expiration Date *

4. Identification of System Quench Spray (Class 2)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, ---- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Target Rock	4	N/A	2QSS-SOV -101A	1984	Repaired	YES
Disc	Target Rock	382	N/A	N/A	1995	Replacement	YES

7. Description of Work Replaced valve trim (internals), tack welded body to bonnet

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

9 Remarks NPV-1 and N-2 forms attached

CERTIFICATE OF COMPLIANCE

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

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

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

Signed Norman J White Senior Eng. Date May 2 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/30/95 to 5/6/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

Robert J Cimock Commissions NB7504 (NISBIS) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date MAY 6 19 95

(12/82)

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 Target Rock Corp.; 1966E Broadhollow Rd., E. Farmingdale, NY 11735
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Co., Shippingport, PA 15077
(name and address of Purchaser)

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

4. Type: 303272-1 (drawing no.) | SA-564-630 (mat'l. spec. no.) | 140 KSI (tensile strength) | N/A (CRN) | 1995 (year built)

5. ASME Code, Section III, Division 1: 1980 (edition) | S 1981 (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: Spare Parts for a completed valve assembly, Main Disc

Model 83C-004, 83C-027

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)	376	N/A
(2)	380	
(3)	381	
(4)	382	
(5)	N/A	
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

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

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 275 psi (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.

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. _____ through _____

CERTIFICATION OF DESIGN

Design specifications certified by John F. Harkins (when applicable) P.E. State PA Reg. no. 30388E

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) Part conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. 1948 Expires 12/12/95

Date 3/29/95 Name Target Rock Corporation (NPT Certificate Holder) Signed _____ (authorized representative)

R. Glazier, Manager
Quality Engineering

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 New York and employed by Commercial Union Insurance of Boston, MA have inspected these items described in this Data Report on 3/29/95, 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 3/29/95 Signed _____ (Authorized Inspector) Commissions NY 2597 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

SERIAL NO: 4
MARK NO: 20SS-SOV101A
TYPE: 83C-004
COMMENTS:

2BV-719

* Revised Design & Pressure Conditions

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 Target Rock Corporation 1966E Broadhollow Rd E. Farmingdale, N.Y. 11735
(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	3 & 4		83C-004	2		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 * ~~50~~ 150 psi (Pressure) * ~~100~~ 120 °F (Temperature) or Valve Pressure Class 150 (1)
7. Cold Working Pressure 230 psi @ 100°F
8. Pressure Retaining Pieces

Mark No	Material Spec. No	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	ASME SA 182F F316L	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 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.

W. A. Roland, AMI Date

Quality Assurance Mgr. Date

* Revised Design & Pressure Conditions

(10/77) This form (E00027) 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
(d) Bolting			
(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.	

8. Hydrostatic test 350 psi. Disc Differential test pressure 240 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. 1, Subsection 1980
Addenda Summer 1981 (Date) Code Case No. ——— Date ———

Signed Target Rock Corporation (Name of Certificate Holder) by R. Nuciola 6/13/84
ANI C. Abruzzo, Mgr. of Quality

Our ASME Certificate of Authorization No. 1947 to use this N (Stamp) 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) E.P. Pfrimmer, John F. Barkin

PE State CT, PA Reg. No. 8803, 10788

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 NEW YORK STATE COMMISSION NO. 2288

Inspector Commissions ALSO COMMISSIONED IN Penna., Ohio & Conn. (Nat'l Bd., State, Prov., and No.)

Form No. 791

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 04-24-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#034931 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No. -

   Expiration Date -

4. Identification of System Quench Spray (Class 2)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Target Rock	3	N/A	2QSS-SOV -101B	1984	Repaired	YES
Disc	Target Rock	380	N/A	N/A	1995	Replacement	YES

7. Description of Work Replaced valve trim (internals), tack welded body to bonnet

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

FORM NIS-2 (Back)

9 Remarks NPV-1 and N-2 forms attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp 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 May 2 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/30/95 to 5/9/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert J. Cimock Commissions NB7509 (NISBIS) PA 2162
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 9 19 95

(12/82)

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 Target Rock Corp.; 1966E Broadhollow Rd., E. Farmingdale, NY 11735
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Co., Shippingport, PA 15077
(name and address of Purchaser)

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

4. Type: 303272-1 (drawing no.) | SA-564-630 (mat'l. spec. no.) | 140 KSI (tensile strength) | N/A (CRN) | 1995 (year built)

5. ASME Code, Section III, Division 1: 1980 (edition) | S 1981 (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: Spare Parts for a completed valve assembly, Main Disc Model 83C-004, 83C-027

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)	376	N/A
(2)	380	
(3)	381	
(4)	382	
(5)	N/A	
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

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

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 275 psi (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.

(12/88)

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

Reprint (7/91)

Certificate Holder's Serial Nos. _____ through _____

CERTIFICATION OF DESIGN

Design specifications certified by John F. Harkins (when applicable) P.E. State PA Reg. no. 30388E

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) Part _____ conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. 1948 Expires 12/12/95

Date 3/29/95 Name Target Rock Corporation (NPT Certificate Holder) Signed _____ (authorized representative)

R. Glazier, Manager
Quality Engineering

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 New York and employed by Commercial Union Insurance of Boston, MA have inspected these items described in this Data Report on 3/29/95, 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 3/29/95 Signed _____ (Authorized Inspector) Commissions NY 2597 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

MARK NO: 2SSS-SCV101B
TYPE: 83C-004
COMMENTS:

2BV-

Temperature
Revised Design & Pressure Conditions

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 Target Rock Corporation 1966E Broadhollow Rd E. Farmingdale, N.Y. 11735
(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	3 & 4		83C-004	2		1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions * ~~90~~ 150 (Pressure) psi * ~~100~~ 120 (Temperature) °F 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 F316L	Carmel Forge	

W. A. Roland, ANI Date 11-20-84

* Revised Design & Pressure Conditions

G. Abruzzo, Quality Assurance Mgr. Date 11-20-84

(1) For manually operated valves only

* Supplementary 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.

(10/77) This form (S00027) 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			
(d) Other Parts			
Bonnet	ASME SA 479 316	Universal Cyclone	
Disc	ASME SA 564 GR 630 17-4 PH	Universal Cyclone	
Indicator Tube	ASME SA 479 316	Joslyn Stainless Steel	
Seat Insert	ASME SA 479 316L	Carpenter Tech.	

6. 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. 1, Subsec NB 1980

Addenda Summer 1981 (Date). Code Case No. _____ Date _____

Signed Target Rock Corporation (N Certificate Holder) By R. Dunlop 6/3/84

Our ASME Certificate of Authorization No. 1947 to use the N (NPV) 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. Harkin

PE State CT, PA Reg. No. 8805, 20128

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 NEW YORK STATE COMMISSION NO. 2288

Inspector's Signature Commissions ALSO CONNECTICUT (N Pump, Valve & Case)

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

Form No. 792

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 — Date 04-24-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 3

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

   Shippingport, PA 15077 (Address) — MWR#034932 (Repair Organization P.O. No., Job No., etc.)

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

   Shippingport, PA 15077 (Address) — Authorization No. *
   Expiration Date *

4. Identification of System Quench Spray (Class 2)

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Target Rock	1	N/A	2QSS-SOV -102A	1985	Repaired	YES
Disc	Target Rock	381	N/A	N/A	1995	Replacement	YES

7. Description of Work Replaced valve trim (internals), tack welded body to bonnet

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

9 Remarks: NPV-1 and N-2 forms attached

CERTIFICATE OF COMPLIANCE

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

(Date of 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 Thomas J. White (Owner or Owner's Designee, Title) Senior Eng. Date May 2, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/30/95 to 5/9/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert J. Cimock (Inspector's Signature) Commissions NB 7509 (NISBIS) PA 2162 (National Board, State, Province, and Endorsements)

Date MAY 9 19 95

(12/82)

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 Target Rock Corp.; 1966E Broadhollow Rd., E. Farmingdale, NY 11735
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Co., Shippingport, PA 15077
(name and address of Purchaser)

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

4. Type: 303272-1 (drawing no.) | SA-564-630 (mat'l. spec. no.) | 140 KSI (tensile strength) | N/A (CRN) | 1995 (year built)

5. ASME Code, Section III, Division 1: 1980 (edition) | S 1981 (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: Spare Parts for a completed valve assembly, Main Disc

Model 83C-004, 83C-027

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) 376	N/A
(2) 380	
(3) 381	
(4) 382	
(5) N/A	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

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

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 275 psi (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.

(12/88)

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. _____ through _____

CERTIFICATION OF DESIGN

Design specifications certified by John F. Harkins (when applicable) P.E. State PA Reg. no. 30388E

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) Part conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. 1948 Expires 12/12/95

Date 3/29/95 Name Target Rock Corporation (NPT Certificate Holder) Signed _____ (authorized representative)

R. Glazier, Manager
Quality Engineering

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 New York and employed by Commercial Union Insurance of Boston, MA have inspected these items described in this Data Report on 3/29/95, 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 3/29/95 Signed _____ (Authorized Inspector) Commissions NY 2597 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

SERIAL NO: 1
MARK NO: 2QSS-SOV102A
TYPE: 83C-027
COMMENTS: 2BV-719

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 Target Rock Corporation [Name and Address of N Certificate Holder] [illegible] Rd E. Farmingdale, N.Y.

2 Manufactured for Duquesne Light Company [Name and Address of Purchaser or Owner] Shippingport, Pennsylvania

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, 2		83C-027	2		1985
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5 QUENCH SPRAY SODIUM HYDROXIDE INJECTION
[Brief description of service for which equipment was designed]

6 Design Conditions 150 psi (Pressure) at 120 F (Temperature) or Valve Pressure Class 150 (1)

7 Cold Working Pressure 233 psi at 100°F

8 Pressure Retaining Pieces

Mark No	Material Spec No	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	ASME SA 105 Class	Carmel Forge	

RECEIVED
JUL 11 1985
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 in (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 (800037) 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) Boring			
(d) Other Parts			
Bonnet	ASME SA 479 SS 316	Universal CycTops	
Disc	ASME SA 564 GR 630 SS 17-4 PH	Universal Cyclops, ARMCO	
Seat Insert	ASME SA 479 SS 316l	Joslyn Stainless Steel	
Indicator Tube	ASME SA 479 SS 316	Cytemp Specialty Steel	

9 Hydrostatic test 350 psi Disc Differential test pressure 275 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. 1 Edition 1980
Addenda Summer 1981 (Date) Code Case No ----- Class -----

Signed Target Rock Corporation (N Certificate Holder) by G. Abruzeo, Mgr. of Quality

Our ASME Certificate of Authorization No 1947 to use the N (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. Harkin

PE State NY, PA Reg No 8805, 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 [illegible] of Boston, Mass. have inspected the pump or valve described in this Data Report on 6/28 1985 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 6/28 19 85 Signed [signature] (Inspector)

Commissions NEW YORK STATE COMMISSION NO. 2288 AND COMMISSIONED IN Penna, Ohio & Conn. (Nat'l Bd. State, Prov. and No.)

Form No. 793

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 04-24-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#034933 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. -

Expiration Date -

4. Identification of System Quench Spray

5. (a) Applicable Construction Code Section III 1980 Edition, S'81 Addenda, ---- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Target Rock	2	N/A	2QSS-SOV -102B	1985	Repaired	YES
Disc	Target Rock	376	N/A	N/A	1995	Replacement	YES

7. Description of Work Replaced valve trim (internals), tack welded body to bonnet

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

FORM NIS-2 (Back)

9 Remarks NPV-1 and N-2 forms attached

CERTIFICATE OF COMPLIANCE

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

(replacement or repair)

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 Thomas J. White Senior Engr. Date May 2 19 95

(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3/30/95 to 5/9/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert J. Cimock Commissions N87509 (NISBIS) PA 2162

Inspector's Signature

(National Board, State, Province, and Endorsements)

Date MAY 9 19 95

(12/82)

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 Target Rock Corp.; 1966E Broadhollow Rd., E. Farmingdale, NY 11735
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Co., Shippingport, PA 15077
(name and address of Purchaser)

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

4. Type: 303272-1 (drawing no.) | SA-564-630 (mat'l. spec. no.) | 140 KSI (tensile strength) | N/A (CRN) | 1995 (year built)

5. ASME Code, Section III, Division 1: 1980 (edition) | S 1981 (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: Spare Parts for a completed valve assembly, Main Disc Model 83C-004, 83C-027

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) 376	N/A
(2) 380	
(3) 381	
(4) 382	
(5) N/A	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

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

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 275 psi (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.

(12/88)

This form (500040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial Nos. _____ through _____

CERTIFICATION OF DESIGN

Design specifications certified by John F. Harkins (when applicable) P.E. State PA Reg. no. 30388E

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) Part conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. 1948 Expires 12/12/95

Date 3/29/95 Name Target Rock Corporation (NPT Certificate Holder) Signed _____ (authorized representative)

CERTIFICATE OF INSPECTION

R. Glazier, Manager
Quality Engineering

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 Insurance of Boston, MA have inspected these items described in this Data Report on 3/29/95, 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 3/29/95 Signed _____ (Authorized Inspector) Commissions NY 2597 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

ITEM: [illegible]
MARK NO: 2065-60V102B
TYPE: 83C-027
COMMENTS:

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 Target Rock Corporation 1966E Broadhollow Rd E. Farmingdale, N.Y.
(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, 2		83C-027	2		1985
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

8. QUENCH SPRAY SODIUM HYDROXIDE INJECTION
(Brief description of service for which equipment was designed)

6. Design Conditions 150 (Pressure) psi 120 (Temperature) °F 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 182 F316L	Carmel Forge	

RECEIVED
JUL 11 1985
Engineering Corporation
Document Service

(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 [illegible] (2) each sheet is numbered and number of sheets is recorded at top of this form.

(10/77) This form (S00027) 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			
(d) Other Parts			
Bonnet	ASME SA 479 SS 316	Universal Cyclops	
Disc	ASME SA 564 GR 630 SS	17-4 PH Universal Cyclops, ARMCO	
Seat Insert	ASME SA 479 SS 316l	Joslyn Stainless Steel	
Indicator Tube	ASME SA 479 SS 316	Cytemp Specialty Steel	

8. Hydrostatic test 350 psi Disk Differential test pressure 275 psi

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that the 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 ------ Class ------

Signed Target Rock Corporation (N Certificate Holder) by G. Abruzzo, Mgr. of Quality 6-28-85

Our ASME Certificate of Authorization No 1947 to use the N (Stamp) 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. Harkin

PE State NY, PA Reg. No 8805, 30388-2

Stress analysis certified by (1)

PE State Reg. No

(1) Signature not required. Last 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 6/28 19 85, 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 6/28 85 Signed [signature] Commissions NEW YORK STATE COMMISSION NO. 2228 AND COMMISSIONED IN Penna. Ohio & Conn. (Nat'l Bd. State, Prov. and No.)

Form No. 794

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 05-05-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#031700 Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. ,

Expiration Date ,

4. Identification of System Feedwater (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, --- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Copes-Vulcan	7310-952 55-1-1	787	2FWS-FCV 478	1977	Repaired	YES
Plug	Copes-Vulcan	9221-98218 -2-2 (92-8)	N/A	---	1993	Replacement	YES

7. Description of Work Replaced valve Trim (internals)

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 and N-2 forms 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 Thomas J. White (Owner or Owner's Designee, Title) Senior Eng. Date May 9, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/11/95 to 5/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

Robert J. Cimock (Inspector's Signature) Commissions N87509 (NISBIS) PA2162 (National Board, State, Province, and Endorsements)

Date MAY 11 19 95

(12/82)

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, Pittsburgh, PA
(name and address of Purchaser)

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

4. Type: D-299794 Rev.0 (drawing no.) | A276-85a Typ 420 (mat'l. spec. no.) | 220 ksi (tensile strength) | --- (CRN) | 1993 (year built)

5. ASME Code, Section III, Division 1: 1971 (edition) | Summer 1972 (addenda date) | 3 (class) | N62-6 (Code Case no.)

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

7. Remarks: Plugs for 12" 900# Valves per Ass'y Dwg. D-166222 Rev. 18

Cust. P.O. D-114260 CV Job 9221-96218

Valve Tag S-FCV-478, 488 Ref. CV Job 8320-95453

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)	9221-96218-2-1 (92-5)	N/A
(2)	9221-96218-2-2 (92-6)	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 No. in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
(36)		
(37)		
(38)		
(39)		
(40)		
(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 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 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 ____)

Certificate Holder's Serial Nos. 9221-96218-2-1 through 2-2

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) Plugs conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1843 Expires 8/19/93

Date 9-14-93 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 9/14/93, 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, 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.

*Factory Mutual Eng. Ass'n.

Date 9/14/93 Signed [signature] (Authorized Inspector) Commissions NB8563 N PA2274 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

2FWS-FCV-478

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Copes-Vulcan, Inc., Lake City, PA 16423 (Name & Address of Manufacturer) Order No. 7310-95255

2. Manufactured for Westinghouse Electric Corp. Nuclear Energy Systems, Pitts, Pa. 15230 (Name and Address) Order No 546-CCP-178325

3. Owner Duquesne Light Company

4. Location of Plant Shippingport, Pennsylvania

5. Pump or Valve Identification WNES I.D. # 16FA37RG CVI S/N 7310-95255-1-1,

12" 900# Feedwater Control Valve (Brief description of service for which equipment was designed)

(a) Drawing No D-166222 Rev. 5 Prepared by Copes-Vulcan, Inc

(b) National ~~Board No.~~ 787

6. Design Conditions 1860 (Pressure) psi 460 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3

Edition 1971, Addenda Date Summer, 1972, Code No. --------

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body S/N P 3785	ASME-SA352	Quaker	GR. LCB
(b) Forgings			
Bonnet S/N 25	ASME-SA105	McInnes	GR. II

FORM NPV-1 — (back)

Mark No. / (a) Bolting	Material Spec. No.	Manufacturer	Remarks
Studs Lot TL	ASME-SA193	Republic	GR. B7
Nuts Lot A	ASME-SA194	Allied Int.	GR. 2H
(d) Other Parts			
Plug S/N 76-10	ASME-SA182	Cartech	GR. F304

6. Hydrostatical test 3250 psi. CVI S/N 7310-95255-1-1

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corp., Nuclear Energy System

Design analysis report on file at Not Applicable

Design specifications certified by Louis James Malandra (1) Prof. Eng. ME State PA Reg. No 13868-E

Design analysis report certified by Not Applicable (1) Prof. Eng. _____ State _____ Reg. No. _____

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

Date 25 Jan 19 77 Signed Copes-Vulcan, Inc. (Manufacturer) J. H. Luthbuton

Certificate of Authorization No. N-826 expires June 17, 1977

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 Penna. and employed by Protection Mutual Ins. Co * of Park Ridge, Ill. have inspected the equipment described in this data report on 1-24 19 77, and state that to the best of my knowledge and belief, the manufacturer has constructed this equipment in accordance with the applicable sections 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 1-25 19 77

L. A. Fenble (Inspector) Commissions Natl. Bd. # 3275 (National Board, State, Province and No.)

*Factory Mutual Systems

Form No. 795

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 05-05-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#031701 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. ,
Expiration Date ,

4. Identification of System Feedwater (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, --- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Globe Valve	Copes-Vulcan	7310-852 55-1-2	795	2FWS-FCV 488	1977	Repaired	YES
Plug	Copes-Vulcan	9221-96218 -2-3 (93-1)	N/A	---	1993	Replacement	YES

7. Description of Work Replaced valve Trim (internals)

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

9. Remarks: NPV-1 and N-2 forms 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 Eng. (Owner or Owner's Designee, Title) Date May 9, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/1/95 to 5/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

[signature] (Inspector's Signature) Commissions NB 7509 (NISBIS) PA 2162 (National Board, State, Province, and Endorsements)

Date MAY 11 19 95

(12/82)

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, Pittsburgh, PA
(name and address of Purchaser)

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

4. Type: D-299794 Rev.0 (drawing no.) | A276-85a Typ 420 (mat'l spec. no.) | 220 ksi (tensile strength) | --- (CRN) | 1993 (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 --- Date ---

7. Remarks: Plug for 12" 900# Valve per Ass'y Dwg. D-166222 Rev. 18

Cust. P.O. D-114260 CV Job 9221-96218

Valve Tag S-FCV-498 Ref. CV Job 8320-95453

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)	9221-96218-2-3 (93-1)	N/A
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

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

10. Design pressure 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.

FORM N-2 (Back – Pg. 2 of ____)

9221-96218-

Certificate Holder's Serial Nos. 2-3 through 2-3

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 8/19/95

Date 9-20-93 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, PA have inspected these items described in this Data Report on 9-20-93, 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, 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.

*Factory Mutual Eng. Ass'n.

Date 9-20-93 Signed [signature] (Authorized Inspector) Commissions NB8563 w PA2274 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

2FWS-FCV488

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Copes-Vulcan, Inc., Lake City, PA 16423 (Name & Address of Manufacturer) Order No. 7310-95255

2. Manufactured for Westinghouse Electric Corp. Nuclear Energy Systems, Pitts, Pa. 15230 (Name and Address) Order No. 546-CCP-178325

3. Owner Duquesne Light Company

4. Location of Plant Shippingport, Pennsylvania

5. Pump or Valve Identification WNES L.D. # 16 FA37RG CVI S/N 7310-95255-1-2

12" 900# Feedwater Control Valve (Model designation of service for which equipment was designed)

6. (a) Drawing No. D-166222 Rev. 5 Prepared by Copes-Vulcan, Inc.

(b) National Board No. 795

7. Design Conditions 1860 (Pressure) psi 460 (Temperature) °F

8. The material, design, construction, and workmanship complies with ASME Code Section III Class 3

Edition 1971 Addenda Date Summer, 1972 Case No. ----------

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body S/N P-3927	ASME-SA352	Quaker	GR. LCB
(b) Forgings			
Bonnet S/N 27	ASME-SA105	McInnes	GR. II

FORM NV-1 – (back)

Mark No. (or Stamping)	Material Spec. No.	Manufacturer	Remarks
Studs Lot TL	ASME-SA193	Republic	GR. B7
Nuts Lot A	ASME-SA194	Allied Int.	GR. 2H
(or Other Parts)			
Plug S/N 75-16	ASME-SA182	Cartech	GR. F304

Hydrostatic test 3250 psi.

CVI S/N 7310-95255-1-2

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corp., Nuclear Energy System

Design analysis report on file at Not Applicable

Design specifications certified by Louis James Malandra (1) Prof. Eng. ME State PA Reg. No. 13868-E

Design analysis report certified by Not Applicable (1) Prof. Eng. _____ State _____ Reg. No. _____

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

Date 14 February 19 77 Signed Copes-Vulcan, Inc. (Manufacturer) by J. H. Lathbury

Certificate of Authorization No. N-826 expires June 17, 1977

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 Pennsylvania and employed by Protection Mutual Ins. Co.* of Park Ridge, Ill. have inspected the equipment described in this data report on 2-14 19 77, and state that to the best of my knowledge and belief, the manufacturer has constructed this equipment in accordance with the applicable sections 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 2-14 19 77

L. A. Lemke (Inspector) Commissions Natl. Bd. # 3275 (National Board, State, Province and No.)

*Factory Mutual Systems

Form No. 796

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 05-04-95
   One Oxford Centre - Pittsburgh, PA 15279 (Address)
   Sheet 1 of 3
2. Plant Beaver Valley Power Station (Address)
   Unit No. 2
   Shippingport, PA 15077 (Address)
   MWR#031702 Repair Organization P.O. No., Job No., etc.
3. Work Performed By DLCo - Maint. Programs (Name)
   Type Code Sample Stamp Not Applicable
   Shippingport, PA 15077 (Address)
   Authorization No.
   Expiration Date
4. Identification of System Feedwater (Class 3)
5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A
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)
Globe Valve	Copes-Vulcan	7310-952 55-1-3	803	2FWS-FCV 498	1977	Repaired	YES
Plug	Copes-Vulcan	9221-98218 -2-1 (92-5)	N/A	---	1993	Replacement	YES

7. Description of Work Replaced valve Trim (internals)
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
   Other ☐ Pressure _____ psi Test Temp. _____ °F

FORM NIS-2 (Back)

9. Remarks: NPV-1 and N-2 forms 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] (Owner or Owner's Designee, Title) Senior Eng. Date May 9, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/1/95 to 5/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock (Inspector's Signature) Commissions NB 7509 (NISBIS) PA 2162 (National Board, State, Province, and Endorsements)

Date MAY 12 19 95

(12/82)

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, Pittsburgh, PA (name and address of Purchaser)

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

4. Type: D-299794 Rev.0 (drawing no.) | A276-85a Typ 420 (mat'l. spec. no.) | 220 ksi (tensile strength) | --- (CRN) | 1993 (year built)

5. ASME Code, Section III, Division 1: 1971 (edition) | Summer 1972 (addenda date) | 3 (class) | N62-6 (Code Case no.)

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

7. Remarks: Plugs for 12" 900# Valves per Ass'y Dwg. D-166222 Rev. 18

Cust. P.O. D-114260 CV Job 9221-96218

Valve Tag S-FCV-478, 488 Ref. CV Job 8320-95453

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) 9221-96218-2-1 (92-5)	N/A
(2) 9221-96218-2-2 (92-6)	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 No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 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 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of ____)

Certificate Holder's Serial Nos. 9221-96218-2-1 through 2-2

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) Plugs conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1843 Expires 8/19/93

Date 9-14-93 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 9/14/93, 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, 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.

*Factory Mutual Eng. Ass'n.

Date 9/14/93 Signed [signature] (Authorized Inspector) Commissions NB8563 N PA2274 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

2FWS-FCV498

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Copes-Vulcan, Inc., Lake City, PA 16423 (Name & Address of Manufacturer) Order No. 7310-95255

2. Manufactured for Westinghouse Electric Corp. Nuclear Energy Systems, Pitts, Pa. 15230 (Name and Address) Order No 546-CCP-178325

3. Owner Duquesne Light Company

4. Location of Plant Shippingport, Pennsylvania

5. Pump or Valve Identification WNES I.D. # 16 FA37RC CVI S/N 7310-95 255-1-3

12" 900# Feedwater Control Valve
(Name of each regional unit covered by this report if more than one unit is designated)

(a) Drawing No D-166222 Rev 5 Prepared by Copes-Vulcan, Inc.

(b) National Board No. 803

6. Design Conditions 1860 (Pressure) psi 460 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III Class 3

Edition 1971 Addenda Date Summer, 1972 Code No. --------

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body S/N P3814	ASME-SA352	Quaker	GR. LCB
(b) Forgings			
Bonnet S/N 13	ASME-SA105	McInnes	GR. 2

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Studs Lot TL	ASME-SA193	Republic	GR. B7
Nuts Lot A	ASME-SA194	Allied Inc.	GR 2H
(d) Other Parts			
Plug S/N 76-9	ASME-SA182	Cartech	GR. F304

8. Hydrostatic test 3250 psi. CVI S/N 7310-95255-1-3

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corp., Nuclear Energy System

Stress analysis report on file at Not Applicable

Design specifications certified by Louis James Malandra (1) Prof. Eng. ME State PA Reg. No. 13868-E

Stress analysis report certified by Not Applicable (1) Prof. Eng. _____ State _____ Reg. No. _____

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

Date 28 February 19 77 Signed Copes-Vulcan, Inc. (Manufacturer) J. Hylan Hubbard

Certificate of Authorization No. N-826 expires June 17, 1977

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, Ill. have inspected the equipment described in this data report on 2-25 19 77, and state that to the best of my knowledge and belief, the manufacturer has constructed this equipment in accordance with the applicable sections 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 2-28 19 77

R. A. Leeke (Inspector) Commissions Nat'l. Bd. # 3275 (National Board, State, Province and No.)

*Factory Mutual Systems

Form No. 797

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 05-25-95
   One Oxford Centre - Pittsburgh, PA 15279 (Address)
   Sheet 1 of 1
2. Plant Beaver Valley Power Station (Address)
   Unit No. 2
   Shippingport, PA 15077 (Address)
   MWR #s 037279, 033697 (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 Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, See N-1 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
2RCS-SG21A	Westinghouse	DMGT-1961	W-18698	"A" Steam Generator	1977	Repaired	YES

7. Description of Work Plugged tubes, Stabilized 2 tubes

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

* VT Exam

FORM NIS-2 (Back)

9. Remarks: Plugged 19 tubes per MWR #037279. Installed stabilizers in 2 tubes for possible loose parts. Replaced Helicoil in #8 Cold Leg Primary Manway per MWR #33657.

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 [signature] Senior Eng Date May 31, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/3/95 to 6/1/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB 7509 (NISBIS) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date JUNE 1 19 95

(12/82)

Form No. 798

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 05-25-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 1

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

   Shippingport, PA 15077 (Address) — MWR #s 037281, 033659 (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 Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, See N-1 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
2RCS-SG21C	Westinghouse	DMGT-1983	W-16600	"C" Steam Generator	1977	Repaired	YES

7. Description of Work Plugged tubes

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

* VT Exam

FORM NIS-2 (Back)

9. Remarks: Plugged 20 tubes per MWR #037281. Replaced #11 stud and nut on Cold Leg Primary Manway per MWR #33659.

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 [signature] Senior Eng. Date May 31, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/3/95 to 6/1/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB7509(NISBIS) PA 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date JUNE 1 19 95

(12/82)

Form No. 799

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 05-11-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#040914 (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 Chemical and Volume Control (Class 2)

5. (a) Applicable Construction Code Section III 1974 Edition, S'74 Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Atwood-Morrill	13-13540	N/A	2CHS-478	1980	Repaired	YES
Disc & Lugs	Atwood-Morrill	1	N/A	—	1993	Replacement	YES

7. Description of Work Replaced disc assembly.

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 and N-2 forms 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] (Owner or Owner's Designee, Title) Senior Eng. Date May 16, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 3-31-95 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] (Inspector's Signature) Commissions NB 6314 A.V.I. PA 2224 (National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

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 Atwood & Morrill Co., Inc. 285 Canal Street, Salem, MA 01970
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Co. Route 168, Shippingport, PA 15077
(name and address of Purchaser)

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

4. Type: *C43312-003 Rev 01 (drawing no.) | SA479-316 (mat'l. spec. no.) | DISC 80,100PSI LUGS 88,900PSI (tensile strength) | N/A (CRN) | 1993 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) | Summer 1974 (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: (1) Disc Weldment consisting of (1) Disc & (2) Lugs; A&M S.O.#25227, Assy. Dwg. H-13540-05 (Rev. 10); *Dwg. prepared by A&M; Certification meets required information of ASME Section III 1974 Edition Summer 1974 Addenda.

8. Nom. thickness (in.) .880 Min. design thickness (in.) .680 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)	(DISC) HT.7859H	N/A
(2)	S/N 1	
(3)	(LUGS) TRACE CL9	N/A
(4)	HT.# 33221	
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

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

10. Design pressure 2735 psi. Temp. 280 °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 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial Nos. (DISC) HT.7859H S/N 1 (LUGS) TR.CL9 HT.#33221 through N/A

CERTIFICATION OF DESIGN

Design specifications certified by James R. Haslam (when applicable) P.E. State PA Reg. no. 35[redacted]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) (1) Disc Weldment conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2607 Expires 6-13-95

Date 9/2/93 Name Atwood & Morrill Co., Inc. (NPT Certificate Holder) Signed Brian D. Sullivan (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 New York and employed by H.S.B.I. & I. CO. of Hartford, CT have inspected these items described in this Data Report on September 2, 1993, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 9/2/93 Signed J W Burke (Authorized Inspector) Commissions [redacted] (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, Sect. III, Div. 1

1. Manufactured by Atwood & Morrill Co., Inc. Salem, MA. 01970
(Name and Address of N Certificate Holder)
2. Manufactured for Stone & Webster Engineering Corp. Boston, MA.
(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 2½ inch Outlet Size 2½ 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)	2½" Check	13-13540	N/A	13540-05-M Rev. 5	2	N/A	1980
(2)	Valve						
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

Duquesne Light Co.
B.V. Valley Unit 2
P.O. No. 29720
Misc. Check Valves
2½" and Larger
Manufactured By
Atwood & Morrill Co., Inc.
285 Canal Street
Salem, MA 01970

5. 2½" Check Valve
(Brief description of service for which equipment was designed)
6. Design Conditions 2735 psi (Pressure) 280 °F (Temperature) or Valve Pressure Class N/A (1)
7. Cold Working Pressure 3600 psi at 100°F
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	SA 351 Gr. CF8M	Quaker Alloy	
MT# T1875			S/N 13-13540
Mt.# F6684-3			
(b) Forgings			
Cover	SA 182 Gr. F-316	Cann & Saul	S/N 13-13540
Mt.# 12712			
Lead Key	SB-564	Cann & Saul	S/N 13-13540
Mt.# NX7642			

(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 (10/73)

This form (00000027) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Mark No	Material Spec No	Manufacturer	Remarks
(c) Bolting			
Bearing Cover Studs	SA 193 Gr. B8	Jos. Dyson & Sons	Code J58
~~Bearing Cover Nuts~~	~~SA 194 Gr. 8~~	~~Jos. Dyson & Sons~~	~~Code J61~~
(d) Other Parts			
Stuff Box Cover Ht. # 625179	SA 240 Gr. 316	Sandmeyer Steel Co. (MS)	S/N 13A-13540
		Crucible Steel (MH)	S/N 13B-13540
Disc Ht. # 79183	SA 479 Gr. 316	Industrial Service Center (MS)	S/N 13-13540
		Joslyn Stainless (MH)	
Disc Lugs (2) Ht. # 79183	SA 479 Gr. 316	Industrial Service Center (MS)	S/N 13A-13540
		Joslyn Stainless (MH)	S/N 13A-13540

9. Hydrostatic test 5500 psi Disc Differential test pressure 3650 psi

0 3 2

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 1974
Addenda Summer 1976 Code Case No. N/A

Signed Atwood & Morrill Co., Inc. by [signature] Date N/A

Our ASME Certificate of Authorization No N-1766 to use the N symbol expires 5-20-83

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster

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

Design specifications certified by (1) Arthur W. Elliot
PE State PA Reg No 6156-E

Stress analysis certified by (1) N/A
PE State N/A Reg No N/A

(1) Signature not required. Last name only

Duquesne Light Co.
Beaver Valley Unit 2
P.O. No. 28V-20
Misc. Check Valves
2½" and Larger
Manufactured By
~~Atwood & Morrill Co., Inc.~~
285 Canal Street
Salem, MA 01970

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected the pump or valve, described in this Data Report on June 27 19 82 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 the 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 June 27 19 82

[signature]
Inspector

Commissions NB 1822 - PA MC 854
(Nat'l Bd., State, Prov., and No.)

Form No. 800

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 05-11-95
   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3
2. Plant Beaver Valley Power Station (Address) Unit No. 2
   Shippingport, PA 15077 (Address) MWR#032473 (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 Reactor Coolant (Class 1)
5. (a) Applicable Construction Code Section III 1977 Edition, S'79 Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A
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)
Power Relief Valve	Crosby	P-121	N/A	2RCS-PCV 455C	Mod. 1983	Repaired	YES
Plug	Crosby	N98012-43-0073	N/A	—	1990	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: NPV-1 and N-2 forms 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 Norman J. Wade (Owner or Owner's Designee, Title) Senior Eng Date May 15, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 6-24-94 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

Robert Lamm (Inspector's Signature) Commissions NB 8314 AND - 8225 (National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

WRENTHAM, MASS

Q.C.-352
Form No.

FORM N-2 M 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 Duquesne Light Co. Beaver Valley Power Station, Shippingport, PA
(name and address)

4. Type DS-C-6/970-13 Rev.B (drawing no.) | ASME SA479 T316 (mat'l spec no.) | *See Below (tensile strength) | -- (CRN) | 1990 (year built)

5. ASME Code, Section III 1977 (edition) | Summer 1979 (addenda) | 1 (class) | -- (Code Case no.)

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

7. Remarks * N96012-41-0065 Tensile Strength 82,900
*N96012-43-0073 Tensile Strength 88,400

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
(1)	N96012-41-0065	
(2)	N96012-43-0073	
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
(14)		
(15)		
(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

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

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

Form N-2

FORM N-2 (back)

Mfr. Serial No. N96012-41-0065

N96012-43-0073

CERTIFICATION OF DESIGN

Design specifications certified by L. Ike Ezekoya P.E. state PA Reg. No. 18379-E
(when applicable)

Design reports certified by -- P.E. state -- Reg. No. --
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. N-1877 Expires 9/30/92

Date 6-13-90 Name Crosby Valve & Gage Co. Signed
(NPT Certificate Holder) (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 *See Below of Norwood, MA have inspected these items described in this data report on 6-13-90 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.

Factory Mutual System

Date 6-13-90 Signed Commissions 4499-130
(Authorized Inspector) (Nat'l Bd (incl. endorsements) state or prov. and no.)

*Arkwright Mutual Insurance Company

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

1. Manufactured by Garrett Pneumatic Systems Division, P. O. Box 5217, Phoenix, AZ 85010
(Name and Address of N Certificate Holder)

2. Manufactured for Westinghouse Electric Corp. NES, P. O. Box 355, Pittsburgh, PA 15230
(Name and Address of Purchaser or Owner)

3. Location of Installation Beaver Valley #2, Duquesne Light Co., Beaver County, PA
(Name and Address)

4. Pump or Valve 3750014 Nominal Inlet Size 3.0 (inch) Outlet Size 6.0 (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 / Modified
(1)	3750014	P-119		3750014 Rev J	1		1983
(2)	3750014	P-121		3750014 Rev J	1		1983
(3)	3750014	P-122		3750014 Rev J	1		1983
(4)							
(5)	[redacted] (6)						
(6)	3750021-2	P-106		3750021 Rev J	1		1983
(7)	3750021-2	P-126		3750021 Rev J	1		1983
(8)	3750021-2	P-124		3750021 Rev J	1		1983
(9)	*NOTE: THIS AMENDED DATA REPORT SUPERSEDES DATA REPORT DATED 10-25-83						
(10)	DUE TO THE UPGRADE OF SOLENOIDS.						

5. Power Operated Steam and Water Relief Valve
(Brief description of service for other equipment was designed)

6. Design Conditions 2500 (Pressure) psi 650 (Temperature) °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure 4070 psi at 100°F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
3751032-1 Bonnet Made from 3751030-1 Bonnet Forging	SA182 Grade F316	Coulter Steel & Forge 1244 67th St. Emeryville, CA 94662 N-1185	RR #623264 HT #15772 RR #603484 HT #15771
3751042-1 Plug Made from steel bar material #9-9939	SA479 Grade F316	Coulter Steel & Forge Same as above QSC-266	RR #656907 HT #616448

(1) For manually operated valves only.

PART NUMBER 3750014 Rev J
SERIAL NUMBERS P-119, P-121 and P-122
PURCHASE ORDER 546CCW454805 BN

* 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 8 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.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bushings			
3751036-1 Nut	SA194 Grade 6	Lonestar Screw Co	RR #758095
		P.O. Box 15211,5826	RR #632572
		Houston, TX OSC-389	RR #632576
			HT #27765
3751036-3 Nut	SA194 Grade 6	Lonestar Screw Co	RR #758093
		Same as above	RR #632575
		OSC-389	HT #23751
3751046-2 Stud	SA453, Grade 660	Lonestar Screw Co	RR #758737/758C9
	Class A, Type 2	Same as above	HT #C10926-4/F
(d) Other Parts		OSC-388	
Welding Rod	SFA 5.13 C1	Johnston Stainless	RR #611945
Material #9-9937	Class RC[illegible]R-A	Welding Rods	HT #5027-10
(used on		10140 Romandel Ave.	RR #749649
3751042-1 Plug)		Santa Fe Springs, CA	HT #3E15-2
		90670 OSC-285	

8. Hydrostatic test 6100 psi. Disc Differential test pressure 4475 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. 1., Edition 1977 Addenda Summer, 1979 (Date) Code Case No. N/A Date Dec. 9, 1983

Signed Garrett Pneumatic Systems Division (N Certificate Holder) By [signature]

Our ASME Certificate of Authorization No. N-2516 to use the N (Stamp) symbol expires 11-12-84 (Date)

CERTIFICATION OF DESIGN

Design information on file at Garrett Pneumatic Systems Division

Stress analysis report (Class 1 only) on file at Garrett Pneumatic Systems Division

Design specifications certified by (1) Thomas E. Grubb

PE State Arizona Reg. No. 11734

Stress analysis certified by (1) Thomas E. Grubb

PE State Ari[illegible] Reg. No. 11734

(1) Signature not required. List name only.

Part Number 3750014 Rev J
Serial Numbers P-119, P-121 and P-122
Purchase Order 546CCW454805 BM

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 Arizona and employed by H.S.B.I. & I. CO. of Hartford, CT have inspected the pump, or valve, described in this Data Report on December 9 19 83, 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 December 9 19 83

[illegible] and AZ 33

Form No. 801

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 05-11-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#034093 (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 Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1977 Edition, S'79 Addenda, ---- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Power Relief Valve	Crosby	P-122	N/A	2RCS-PCV 455D	Mod. 1983	Repaired	YES
Plug	Crosby	N96012-41-0065	N/A	---	1990	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: NPV-1 and N-2 forms 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 Eng (Owner or Owner's Designee, Title) Date May 15, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 8-25-94 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

[signature] (Inspector's Signature) Commissions NB 5314 PA I. 22245 (National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

WRENTHAM, MASS

C.C.-382
Form N-2

FORM N-2 OR KPT 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 Duquesne Light Co. Beaver Valley Power Station, Shippingport, PA
(name and address)

4 Type DS-C-67970-13 Rev.B | ASME SA479 T316 | *See Below | -- | 1990
(drawing no.) | (mat'l spec no.) | (tensile strength) | (CRN) | (year built)

5 ASME Code, Section III 1977 | Summer 1979 | 1 | --
(edition) | (addenda) | (class) | (Code Case no.)

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

7 Remarks * N96012-41-0065 Tensile Strength 82,900
*N96012-43-0073 Tensile Strength 88,400

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)	N96012-41-0065		(26)		
(2)	N96012-43-0073		(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)

Form N-2

FORM N-2 (back)

Mfr. Serial No. N96012-41-0065

N96012-43-0073

CERTIFICATION OF DESIGN

Design specification certified by L. Ike Ezekoya P.E. state PA Reg. No. 18379-E
(when applicable)

Design report* certified by -- P.E. state -- Reg. No. --
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. N-1877 Expires 9/30/92

Date 6-13-90 Name Crosby Valve & Gage Co. Signed
(NPT Certificate Holder) (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 *See Below of Norwood, MA have inspected these items described in this data report on 6-13-90 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.

Factory Mutual System

Date 6-13-90 Signed Commissions 1479-1301
(Authorized Inspector) (Nat'l Bd (incl. endorsements) state or prov. and no.)

*Arkwright Mutual Insurance Company

...DATA REPORT FOR NUCLEAR PUMPS OR VALVES* Page ...
As Required by the Provisions of the ASME Code, Section III, Div. 1 *CORRECTED

1. Manufactured by Garrett Pneumatic Systems Division, P. O. Box 5217, Phoenix, AZ 85010
(Name and Address of N Certificate Holder)
2. Manufactured for Westinghouse Electric Corp. NES, P. O. Box 355, Pittsburgh, PA 15230
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley #2, Duquesne Light Co., Beaver County, PA
(Name and Address)
4. Pump or Valve 3750014 Nominal Inlet Size 3.0 (inch) Outlet Size 6.0 (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)	3750014	P-119		3750014 Rev J	1		1983
(2)	3750014	P-121		3750014 Rev J	1		1983
(3)	3750014	P-122		3750014 Rev J	1		1983
(4)							
(5)	[redacted]						
(6)	3750021-2	P-106		3750021 Rev J	1		1983
(7)	3750021-2	P-126		3750021 Rev J	1		1983
(8)	3750021-2	P-124		3750021 Rev J	1		1983
(9)	*NOTE: THIS AMENDED DATA REPORT SUPERSEDES DATA REPORT DATED 10-25-83						
(10)	DUE TO THE UPGRADE OF SOLENOIDS.						

5. Power Operated Steam and Water Relief Valve
(Brief description of service for which equipment was designed)

6. Design Conditions 2500 (Pressure) psi 650 (Temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure 4070 psi at 100°F
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings None			
(b) Forgings			
3751032-1 Bonnet Made from 3751030-1 Bonnet Forging	SA182 Grade F316	Coulter Steel & Forge 1494 67th St. Emeryville, CA 94662	RR #623264 HT #15772
3751042-1 Plug Made from steel bar material #9-9939	SA479 Grade F316	N-1189 Coulter Steel & Forge Same as above QSC-266	RR #623264 HT #15771 RR #656907 HT #616448

(1) For manually operated valves only. PART NUMBER 3750014 Rev J
SERIAL NUMBERS P-119, P-121 and P-122
PURCHASE ORDER 546CCW454805 BN

* 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			
3751038-1 Nut	SA194 Grade 6	Lonestar Screw Co	RR #758095
		P.O. Box 15211,5826	RR #632574
		Houston, TX OSC-389	RR #632576
			HT #27765
3751038-3 Nut	SA194 Grade 6	Lonestar Screw Co	RR #758093
		Same as above	RR #632575
		OSC-389	HT #23751
3751046-2 Stud	SA453, Grade 660	Lonestar Screw Co	RR #758737/758095
	Class A, Type 2	Same as above	HT #C10926-4/F #C
		OSC-388	
(d) Other Parts			
Welding Rod	SFA 5.13 C1	Johnston Stainless	RR #611945
Material #9-9937	Class RCOCR-A	Welding Rods	HT #5027-10
(used on		10140 Romandel Ave.	RR #749649
3751042-1 Plug)		Santa Fe Springs, CA	HT #3E15-2
		90670 OSC-285	

8. Hydrostatic test 6100 psi. Disk Differential test pressure 4475 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. 1., Edition 1977
Addenda Summer, 1979 (Date) Code Case No. N/A Date Dec 5 1979

Signed Garrett Pneumatic Systems Division (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-2516 to use the N (Stamp) symbol expires 11-12-84 (Date)

CERTIFICATION OF DESIGN

Design information on file at Garrett Pneumatic Systems Division

Stress analysis report (Class 1 only) on file at Garrett Pneumatic Systems Division

Design specifications certified by (1) Thomas E. Grubb

PE State Arizona Reg. No. 11734

Stress analysis [illegible] (1) Thomas E. Grubb

PE State Ari[illegible] Reg. No. 11734

(1) Signature and [illegible] title name only.

Part Number 3750014 Rev J
Serial Numbers P-119, P-121 and P-122
Purchase Order 546CCW454805 BN

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 Arizona and employed by H.S.B.I. & I. CO. of Hartford, CT have inspected the pump, or valve, described in this Data Report on December 9 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 December 9 19 79

[signature] Commissions AZ 33

Form No. 803

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 05-03-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#041086 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

   Shippingport, PA 15077 (Address) Authorization No.

   Expiration Date

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

5. (a) Applicable Construction Code Section III 1971 Edition, S'73 Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Dresser	H503AAE	N/A	2CCP-290	1978	Repaired	YES

7. Description of Work Machined plug and seal welded cover to body

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form 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 [signature] Senior Eng Date May 9, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/5/95 to 5/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB7504 (NISBIS) PA. 2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date MAY 12, 19 95

(12/82)

SERIAL NO: H503AAE
MARK NO: 2CCP-290
TYPE: VCS150-C-3
COMMENTS:

2BV-064

PUMP, VALVE AND INSTRUMENT DIVISION

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 DRESSER INDUSTRIAL VALVE & INSTR. DIV., HIGHWAY 71 NORTH ALEXANDRIA, LOUISIANA
(NAME AND ADDRESS OF N CERTIFICATE HOLDER)

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

3. LOCATION OF INSTALLATION Beaver Valley Power Station, Shippingport, PA 15077
(NAME AND ADDRESS)

4. PUMP OR VALVE 2"7440W-1-XNC009 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) MATL. SPEC. NO.	(g) YEAR BUILT
(1)	7440W	H503AAE		3NC009	3		1978
(2)	7440W	H504AAE		3NC009	3		1978
(3)	7440W	H505AAE		3NC009	3		1978
(4)	7440W	H506AAE		3NC009	3		1978
(5)							
(6)							
(7)							
(8)							
(9)							

5. Designed for Water, Steam or Air Service
(BRIEF DESCRIPTION OF SERVICE FOR WHICH EQUIPMENT WAS DESIGNED)

6. DESIGN CONDITIONS 2350 (PRESSURE) PSI 700 (TEMPERATURE) °F OR VALVE PRESSURE CLASS ____ (1)

7. COLD WORKING PRESSURE 3600 PSI AT 100°F.

8. PRESSURE RETAINING PIECES

	NAME NO.	MATERIAL SPEC. NO.	MANUFACTURER	REMARKS
(A)	CASTINGS			
(B)	FORGINGS			
	D-7	SA105	Capa Ann Tool Co.	Body
	212876	SA105	McInnes Steel Co.	Cap

(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 NO. SA-0050-0778

FORM NPV 1 (BACK)

PARTS	MARK NO	MATERIAL SPEC NO	MANUFACTURER	REMARKS
(c) BOLTING				
(d) OTHER PARTS				
	G-9602	ASTM A276 Gr. 410	Universal Cyclops	Valve
	*See Below			
	Seat Tested @ 3600 PSIG			
	Shell Tested @ 5400 PSIG			

8. HYDROSTATIC TEST * 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. 1 EDITION 1971

ADDENDA Summer 1973 (DATE) CODE CASE NO N/A DATE 12-26-78

SIGNED Dresser IVID (N CERTIFICATE HOLDER) BY Principal Quality Assurance Engineer

OUR ASME CERTIFICATE OF AUTHORIZATION NO N-1746 TO USE THE N (N) SYMBOL EXPIRES 5/20/80 (DATE)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Industries, Alexandria, Louisiana

STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT

DESIGN SPECIFICATIONS CERTIFIED BY (1) Faruk A. Gopalani

PE STATE Pennsylvania REG NO 21966-E

STRESS ANALYSIS CERTIFIED BY (1)

(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 CO. OF HARTFORD CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 10-26 19 78 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 FUTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE 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 10-26 19 78

(INSPECTOR) COMMISSIONS Louisiana 672 Pennsylvania WE 2428 (NAT'L. BD., STATE, PROV. AND NO.)

FORM NO. DA-0025-5770

Form No. 804

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 05-03-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#041109 (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 Component Cooling, Primary (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'73 Addenda, — Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Dresser	H504AAE	N/A	2CCP-291	1978	Repaired	YES

7. Description of Work Seal welded cover to body, machined plug

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form attached. Valve was disassembled due to back leakage.

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 [signature] Senior Eng. Date May 25, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/5/95 to 5/30/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock Commissions NB7509(NISBIS) PA2162
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date MAY 30 19 95

(12/82)

SERIAL NO: H504AAE
MARK NO: 2CCP-291
TYPE: VCS150-C-3
COMMENTS: ----------

2BV-064

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 DRESSER INDUSTRIAL VALVE & INSTR. DIV., HIGHWAY 71 NORTH ALEXANDRIA, LOUISIANA
(NAME AND ADDRESS OF N CERTIFICATE HOLDER)

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

3. LOCATION OF INSTALLATION Beaver Valley Power Station, Shippingport, PA 15077
(NAME AND ADDRESS)

4. PUMP OR VALVE 2"7440W-1-XNC009 NOMINAL INLET SIZE 2" (INCH) OUTLET SIZE 2" (INCH)

	(a) MODEL OR SERIES NO. OR TYPE	(b) N CERTIFICATE HOLDER'S SERIAL NO.	(c) CANADIAN REGISTRATION NO.	(d) DRAWING NO.	(e) CLASS	(f) MATL. SPEC. NO.	(g) YEAR BUILT
(1)	7440W	H503AAE		3NC009	3		1978
(2)	7440W	H504AAE		3NC009	3		1978
(3)	7440W	H505AAE		3NC009	3		1978
(4)	7440W	H506AAE		3NC009	3		1978
(5)							
(6)							
(7)							
(8)							
(9)							

5. Designed for Water, Steam or Air Service
(BRIEF DESCRIPTION OF SERVICE FOR WHICH EQUIPMENT WAS DESIGNED)

6. DESIGN CONDITIONS 2350 (PRESSURE) PSI 700 (TEMPERATURE) °F OR VALVE PRESSURE CLASS ---------- (1)

7. COLD WORKING PRESSURE 3600 PSI AT 100°F.

8. PRESSURE RETAINING PIECES

NAME NO.	MATERIAL SPEC. NO.	MANUFACTURER	REMARKS
(A) CASTINGS			
(B) FORGINGS			
D-7	SA105		
212876	SA105	Cape Ann Tool Co.	Body
		McInnes Steel Co.	Cap

(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 NO. GA-0083-0778

FORM NPV 1 (BACK)

NAME NO	MATERIAL SPEC NO	MANUFACTURER	REMARKS
(c) BOLTING			
(d) OTHER PARTS			
Q-9602	ASTM A276 Gr. 410	Universal Cyclops	Valve
*SEE BELOW			
Seat Tested @ 3600 PSIG			
Shell Tested @ 5400 PSIG			

8. HYDROSTATIC TEST * 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. 1 EDITION 1971 ADDENDA Summer 1973 (DATE) CODE CASE NO. N/A

SIGNED Dresser IVED BY Prj Mgr Quality Assurance Engineer DATE 10-26-71

(N CERTIFICATE HOLDER) (N)

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1746 TO USE THE N SYMBOL EXPIRES 5/20/80 (DATE)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Industries, Alexandria, Louisiana

STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT

DESIGN SPECIFICATIONS CERTIFIED BY (1) Faruk A. Gopalani

PE STATE Pennsylvania REG. NO. 21966-E

STRESS ANALYSIS CERTIFIED BY (1)

(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 STM BLR I & I CO. OF HARTFORD, CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 10-26 19 71 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 10-26 19 71

(INSPECTOR)

COMMISSIONS Louisiana 672 Pennsylvania #E 2428

(NATL. BD., STATE, PROV. AND NO.)

FORM NO. GA-0000-0778

Form No. 805

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 05-16-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#040934 (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 Reactor Coolant (Class 1)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Piping	Power Piping	N-1316-82-6509	N/A	RCS-42-11A	1983	Repaired	YES

7. Description of Work Replaced flow element 2RCS-FE481 studs and nuts

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

FORM NIS-2 (Back)

9. Remarks: NPP-1 Data Report 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] (Owner or Owner's Designee, Title) Senior Eng. Date May 25, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/11/95 to 5/25/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock (Inspector's Signature) Commissions NB 7509 (NISBIS) PA 2162 (National Board, State, Province, and Endorsements)

Date MAY 25 19 95

(12/82)

SR-6

CORRECTED COPY
SPC MODIFIED

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*

As Required by the Provisions of the ASME Code Rules, Section III, Div. 1 N-1316-82-6509

1. Fabricated by Power Piping Company, Donora, PA 15033 Order No. N-1316-82
2. Fabricated for Beaver Valley Power Station, Unit #2 Order No. 28V-58, J.O. No. 12241
3. Owner Duquesne Light Company, Pittsburgh, PA 4. Location of Plant Shippingport Borough, PA
5. Piping System Identification Reactor Coolant System (RCS) (Primary Loop 22, PWR) Cont. Bldg.
MK RCS-42-11/1070-042-104 ISO 107010
(a) Drawing No. RP-70 C & D Prepared by Stone & Webster Engineering Corp.
(b) National Board No. N/A Boston, Massachusetts
6. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1
Edition 1971, Addenda Date Winter 1972, Case No. N/A [redacted]
Remarks: Manufacturers' Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report
(Name of Part - Item Number - Manufacturer's Name and Identifying Number)
7. Shop Hydrostatic Test By Field psi.
8. Description of piping inspected
(Item No. - Mark No. - Quantity - Size - Schedule or Class - Length - Material - Remarks, etc.)

2 Pcs. - 2" Sch. 160 Smls. S.S. Pipe, SA 376, TP-316, Item #3, L.C. No. P-1938, Ht. ID 08472, Lgth. = 0'-5½" Lg.; Item #4, L.C. No. P-1938, Ht. ID 08472, Lgth. = 2'-4 9/16" Lg.

1 - 2" Sch. 160 Smls. S.S. L/R 90° Ell, SA 403, WP-316, Item #11, L.C. No. M-8098, Ht. ID 66824 65150

1 - 2" 1500# F.S.S. W/N R/F Orifice Flg. (Sch. 160 Bore), SA 182, F-316, Item #14, L.C. No. M-8115, Ht. ID B-3798

NOTE: Welding Electrode L.C. No. E-36, E-94, E-116

SWEC INSTALLATION

We certify that the statements made in this report are correct and that the fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.

Date March 24, 1983 Signed Power Piping Company By Alice E Hatella

Certificate of Authorization Expires January 7, 1986 Certificate of Authorization No. N-1623

CERTIFICATE OF SHOP INSPECTION N-1316-82-6509

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 Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the piping described in this Data Report on 3-24-83, 19 83, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this piping in accordance with the applicable Subdivisions of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the piping on 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 3-24-83 19 83

[signature] Commissions PA 2063
(Inspector) (National Board (State, Province and No.)

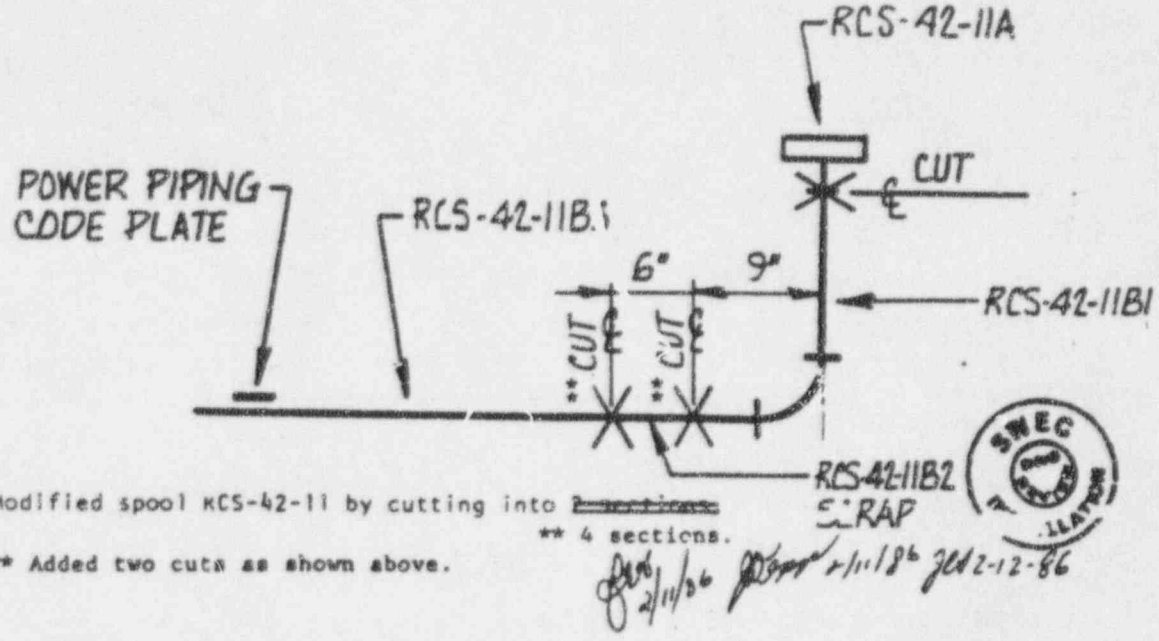
*Supply data for items as applicable. Attach lists or drawings that may be used provided they are identified with the above (1), (2), (3), (4), (5), and (6) and the data appears on the listed sheets. Additional sheets should be numbered and the number of sheets recorded on the Data Report.

Legibility Verification Test

FORM NPP-1 (back)

107010

9. Description of Field Fabrication



Modified spool RCS-42-11 by cutting into ~~2 sections~~ ** 4 sections.

** Added two cuts as shown above.

2/11/86 2/11/86 2-12-86

10. Field Hydrostatic Test * psi. *To be performed at time of system hydro.

We certify that the field fabrication of the described piping conforms with the requirements of SECTION III of the ASME BOILER AND PRESSURE VESSEL CODE.

Class 1 Edition 1971 Addenda Date Winter 1972 Case No. NA

Date 2/25 1986 Signed Schneider Power Corp. by [signature]
(NPT Certificate Holder) (Representative)

Our Certificate of Authorization to use the NPT Symbol Expires August 12 1986

Certificate of Authorization No. N-1825-1

CERTIFICATE OF FIELD FABRICATION 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 HSBI & I Co. of Hartford, CT have compared the statements in this Data Report with the described piping and state that the parts referred to as data items 9 not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this piping in accordance with the applicable sections of the ASME CODE SECTION III.

By signing this certificate 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 9-24 19 85

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

Legibility Verification Test

Vol. 15 Pg 383

POWER PIPING COMPANY

P. O. BOX 11

DONORA, PA. 15033

TELEPHONE
AREA CODE 412
391-9767

CORRECTED COPY
SUPPLEMENTAL SHEET FOR NPP-1 DATA REPORT

Fabricated by POWER PIPING COMPANY, Donora Industrial Park, Donora, PA 15033

Fabricated for Duquesne Light Company, Pittsburgh, PA
Order No. 2BV-58, J.O. No. 12241

Location of installation: Beaver Valley Power Station, Unit #2, Shippingport Borough, PA

ASME Code, Section III 1971 Edition, Winter 1972 Addenda

As permitted by specification 2BVS-58, materials have been procured and certified to Editions and Addenda later than the 1971 Edition, Winter 1972 Addenda. The specific Edition/Addenda to which material conforms is shown on the Certified Material Test Report or Certificate of Compliance furnished with the material as referenced on the Data Reports. Stone & Webster Engineering Corporation is responsible for updating the applicable NPP-1 Data Reports to reflect this supplemental sheet. Power Piping Company Certificate of Authorization number N-1623, expires January 7, 1989.

Drawing No.	Serial No.	Mark No.	Year Built
1070-042-101	*N-1316-82-6506	RCS-42-8	1982
1070-042-102	*N-1316-82-6507	RCS-42-9	1982
1070-042-103	*N-1316-82-6508	RCS-42-10	1983
1070-042-104	*N-1316-82-6509	RCS-42-11	1983
1070-042-105	*N-1316-82-6510	RCS-42-12	1982

*Corrected serial number prefix from N-1141 to N-1316-82

November 26, 1986

PPCo QA Representative

Authorized Nuclear Inspector

Legibility Verification Test

Form No. 806

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 05-04-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 4

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

   Shippingport, PA 15077 (Address) — MWR#041219 (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 Residual Heat Removal (Class 2)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, ---- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1S83E-S'83A

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)
Piping	Power Piping	N-1141-3929	N/A	RHS-10-2B	1980	Repaired	YES

7. Description of Work Replaced flow element 2RHS-FE607B flanges studs and nuts.

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

FORM NIS-2 (Back)

9. Remarks: N/A

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] Senio- Eng Date May 12, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4-F-95 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions NB 7314 Mass. 2245
(Inspector's Signature) (National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

Residual Heat Removal System(RHS) CORRECTED COPY *

2-SR-10-02-RHS

FORM N-4 DATA REPORT FOR INSTALLATION OR SHOP ASSEMBLY OF NUCLEAR POWER PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES*

As Required by the Provisions of the ASME Code Rules, Section III, Division 1 Sheet 1 of 28

1 Installed by Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and address of installer of components, component supports or appurtenances)

2 Installed for Duquesne Light Company, One Oxford Centre, 301 Grant St., 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-10-02-RHS (Sht. Serial No.) N/A (CRN) Att. 10 (Drawing No.) Nat'l Bd. No. N/A Year installed 1987

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)

(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"				R/A	
SEE ATTACHMENT (5) "Field Modified Small Bore Subassemblies Installed"				R/A	
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 Engr. Corp.
SPC: Schneider Power Corp.
HSBI & I Co.: Hartford Steam Boiler Inspection & Insurance Co.
PPC: Power Piping Company

7 (a) Installation in Accordance with:

Procedure or Drawing No.	Prepared by
SEE ATTACHMENT (8) "Design Drawings & Revisions"	
SEE ATTACHMENT (9) "Procedures & Specification"	
NO FURTHER ENTRIES	

(b) Description of Installation Performed:
SEE ATTACHMENT (10) "Description of Installation Performed"
NO FURTHER ENTRIES

(c) Hydrostatic Test _____ # _____ psi. System Operating 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 6 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 28 "CERTIFICATION OF DESIGN..." FOOTNOTE

Residual Heat Removal System(RHS)

CORRECTED COPY

2-SR-10-02-RHS

FORM N-5 (Back)

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

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

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

Design specifications certified by (1) J. R. ~~Beelen~~ PE State Pennsylvania

Reg. No 35972-E

Design Report certified by (1) S. D. Greer PE State Pennsylvania

Reg. No 35434-E (SEE ATTACHMENT (11) "System Working & Design, Pressure & Temperature & Hydrostatic/ Pneumatic Tests.

(1) Signature not required. List name only

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-1824-1 to use the NA Symbol expires 6-12-89

Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.

Date 3/24/87 Signed Schneider Power Corporation by [signature]

(Certificate Holder)

*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 3-25 19 87 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 makes 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 3-25 19 87 Signed [signature] Commissions PA 3000-N

(Inspector) (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 that 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 3/24/87 Signed Stone&Webster Engr. by [signature]

(N-Certificate Holder)

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 3/30 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 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 3/30 19 87

Signed [signature] Commissions PA 7052 N

(Inspector) (Nat'l Board, State, Province and No.)

N-5 DATA REPORT
ATTACHMENT 3

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 Residual Heat Removal System(RHS) YEAR INSTALLED 1987
(Mfr. Serial No.) 2-SR-10-02-RHS

Continued from Sheet 9

* Year Modified 1985
** Year Modified 1986

FIELD MODIFIED LARGE BORE SUBASSEMBLIES INSTALLED

(A) Item No.	(B) Large Bore Subassemblies No./Serial No.	(C) Name of Certificate Holder	(D) Large Bore Isometric Number	(E) Year Built
16	RHS-29-2B1/N-1141-3858	Power Piping Co.	110726	1980*
17	RHS-29-1C1/N-1141-3857	Power Piping Co.	110726	1980*
18	RHS-29-1C3/N-1141-3857	Power Piping Co.	110726	1980*
19	RHS-29-1A1A/N-1141-3857	Power Piping Co.	110726	1980*
20	RHS-29-3A/N-1141-3934	Power Piping Co.	107117	1979*
21	RHS-29-3B/N-1141-3934	Power Piping Co.	107117	1979*
22	RHS-10-5A1/N-1141-3932	Power Piping Co	107117	1980*
23	RHS-10-5A3/N-1141-3932	Power Piping Co.	107117	1980*
24	RHS-10-3A1/N-1141-3930	Power Piping Co.	107116	1979*
25	RHS-10-4A1/N-1141-3931	Power Piping Co.	107116	1980*
26	RHS-10-4A3/N-1141-3931	Power Piping Co.	107116	1980*
27	RHS-10-2A/N-1141-3929	Power Piping Co.	107115	1980**
28	RHS-10-2B/N-1141-3929	Power Piping Co.	107115	1980**
29	RHS-5-2A2A/N-1141-3924	Power Piping Co.	107112	1980**
30	RHS-5-2A2B1/N-1141-3924	Power Piping Co.	107112	1980**

Continued on Sheet 11

Date 3/24/87 Schneider Power Corp. Signed [signature] RC# 3250
N.A. Certificate Holder
Date 3/25/87 [signature] Commissions [illegible]
Authorized Inspector Signature (Nat'l Board, State and No.)
Date 3/26/87 Stone & Webster Eng. Corp. Signed [signature]
N Certificate Holder
Date 3/30/87 [signature] Commissions 6R 2057N
Authorized Inspector Signature (Nat'l Board, State 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 Residual Heat Removal System(RHS) YEAR INSTALLED 1987
(Mfr. Serial No.) 2-SR-10-02-RHS

Continued from Sheet 18

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.)
61	107116(ITEM#10)	1½" HEX NUT	SA194 GR 6 HT#868
62	107115(ITEM#3)	3/4" PIPE	SCH.40S SMLS.SA312 TP304 HT#462242
63	107115(ITEM#16)	½" PIPE	SCH.40S SMLS.SA312 TP304 HT#455662
64	107115(ITEM#17)	½" CAP	F.S.S/W 3000# SA182 F304 HT#[illegible]Z
65	107115(ITEM#13)	½" PIPE	SCH.40S SMLS.SA312 TP304 HT#469116
66	107115(ITEM#14)	½" 90° ELBOW	F.S.S/W 3000# SA182 F304 HT#[illegible]
67	107115(ITEM#7)	1½" STUD BOLT	SA193 GR.B6 HT#SAP
68	107115(ITEM#7)	1½" HEX NUT	SA194 GR.6 HT#OY63
69	107115(ITEM#8)	3/4" STUD BOLT	SA193 GR.B6 N/A
70	107[illegible](ITEM#8)	3/4" HEX NUT	SA194 GR.6 N/A
71	107115(ITEM#15)	1½" HEX BOLT	SA325 TYPE 1 HT#OY95
72	107115(ITEM#16)	½" PIPE	SCH.40S SMLS.SA312 TP304 HT#468640
73	107112(ITEM#7,8,10,12)	3/4" PIPE	SCH.40S SMLS.SA312 TP304 HT#92863

Continued on Sheet 20

Date 3/24/87 Schneider Power Corp. Signed [signature]
(NA Certificate Holder)
Date 3-25-87 [signature] Commission PA 3000 Dv
(Authorized Inspector Signature) (National Board, State and No.)
Date 3/25/87 Stone & Webster Eng. Corp. Signed [signature]
(N Certificate Holder)
Date 3/30/87 [signature] Commission PA 2052 N
(Authorized Inspector Signature) (National Board, State and No.)

N-5 DATA REPORT
ATTACHMENT 10

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 Residual Heat Removal System(RHS) YEAR INSTALLED 1987
(Unit Serial No.) 2-SR-10-02-RHS

DESCRIPTION OF INSTALLATION PERFORMED

Continued from Sheet 1

Drawing No. and Rev.	Prepared By	Drawing No. and Rev.	Prepared By
107114-3G	PPC & SPC	107103-4N	PPC & SPC
107119-0J	PPC & SPC	107104-4N	PPC & SPC
107120-1J	PPC & SPC	107122-0L	PPC & SPC
107121-0H	PPC & SPC	107105-5M	PPC & SPC
107113-1G	PPC & SPC	107106-5M	PPC & SPC
		NO FURTHER ENTRIES	
110-606-4AC ****	SPC		
110-608-4AC ****	SPC		
110726-1J	PPC & SPC		
107117-3K	PPC & SPC		
110-243-6	SPC		
110-244-6	SPC		
107116-2M	PPC & SPC		
107115-1K	PPC & SPC		
107112-1P	PPC & SPC		
110-241-7	SPC		

Revision level Control Drawings designated as "AC" have been reconciled with the control drawing revision listed and have no impact on the ASME III Code fabrication/installation delineated in this N-5 data report.

dgj 3-27-87 SwEC

****Stress reconciliation was completed on this isometric revision. The indicated revision shall be increased solely to document the stress calculation. This later revision in no way reflects any changes to the piping components, material or supports indicated on the isometric. dgj 3-27-87 SwEC

Continued on Sheet N/A

Date 3/24/87 Schneider Power Corp. Signed
(N-5 Certificate Holder)
Date 3-25-87 Commissions
(Authorized Inspector Signature) (Nat'l Board, State and No.)
Date 3/30/87 Stone & Webster Eng. Corp. Signed
Date 3/30/87 Commissions
(N Certificate Holder) (Authorized Inspector Signature) (Nat'l Board, State and No.)

N-5 DATA REPORT
ATTACHMENT 12

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 Residual Heat Removal System(RHS) YEAR INSTALLED 1987
(Mfr. Serial No.) 2-SR-10-02-RHS

Continued from Sheet 2

LATER CODE EDITION(S) AND ADDENDA(S) INVOKED, AND CODE CASES INVOKED

Later Edition(s)/Addenda(s) of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, invoked for use during Plant construction. As authorized by the Design Specification, material may have been procured and certified to later Editions/Addenda of the ASME Code. The specific Edition/Addenda to which the material was procured and certified is identified on the Certified Material Test Report or Certificate of Compliance furnished with the material and referenced on Attachment (7) to this N-5 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	NB/NC/ND	4427-1	2BVS-920
1980	Winter 1982	NCA	8000	2BVS-920
1974	Summer 1976	NX	4435	2BVS-920
1980	Summer 1981	NCA	8240(b)	2BVS-920
1974	N/A	NB/NC/ND	3641.1	2BVS-939
1977	Summer 1978	NC/ND	3643.1	2BVS-939
1977	Summer 1978	NC/ND	3643.3	2BVS-939
1983	Summer 1983	APPENDIX V	N/A	2BVS-920
1983	N/A	NX	6111	2BVS-920
1980	Summer 1981	NB/NC/ND	6211	2BVS-920
1971	Winter 1973	NB/NC	2150	2BVS-920
1980	Summer 1980	NCA	1273	2BVS-920
1983	Winter 1983	NC/ND	4436	2BVS-920
1974	Summer 1975	NC	3651	2BVS-939
1980	Summer 1981	NC/ND	3658.2	2BVS-939

Code Case(s) invoked for installation or testing ***NO FURTHER ENTRIES***

Code Case Number	Authorizing Document(s)	Code Case Number	Authorizing Document(s)
N-224	2BVS-920	N-122	2BVS-939
N-275	2BVS-920	1606-1	2BVS-939
N-292	2BVS-920	N-392	2BVS-939

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 3/24/87 Schneider Power Corp. Signed
(N-5 Certificate Holder)

Date 3/25/87 Authorized Inspector Signature Commissions
(Nat'l Board, State and No.)

Date 3/30/87 Stone&Webster Eng. Corp. Signed
(Certificate Holder)

Date 3/30/87 Authorized Inspector Signature Commissions PA2052N
(Nat'l Board, State and No.)

Form No. 807

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 05-03-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

Shippingport, PA 15077 (Address) MWR#041127 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed By DLCo - Maint. Programs (Name) Type Code Sample Stamp Not Applicable

Shippingport, PA 15077 (Address) Authorization No. Expiration Date

4. Identification of System Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, 1672, 1587 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Walworth	D63780	1153	2SWS-1104	1977	Repaired	YES

7. Description of Work Machined disc

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

9. Remarks: NPV-1 form 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] (Owner or Owner's Designee, Title) Senior Eng. Date May 9, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/20/95 to 5/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock (Inspector's Signature) Commissions NB7509 (NISBIS) PA 2162 (National Board, State, Province, and Endorsements)

Date MAY 12 19 95

(12/82)

SERIAL NO. D63780
MARK NO.
TYPE:
CONTENTS:

2BV-1104

2BV-073

CD-31299-A4T

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 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)	5341 BB WE	D63780	N/A	SK-1952-18C	3	1153	1977
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

Duquesne Light Company
Beaver Valley Unit No. 2
P. O. No. 2BV-73, I. O. No. 12241
Carbon Steel Valves - 2½ in. and Larger
Category I
Walworth Company
Greensburg, PA 15601

5. Water/Steam/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 B218 P5	SA-216, WCB	Walworth Co.	Seal Welded Seats
Cover F724 P1	SA-216, WCB	Walworth Co.	CoCr A Backseat
Disc B905 P3	SA-216, WCB	Walworth Co.	CoCr A Faced
(b) Forgings			

VALVE
D63780
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.

(1/76) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

00006

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Stud U550	SA-193, B7	Wm. H. Haskell Mfg. Co.	
Code "BM"			
Nut D078N	SA-194, 2H	Wm. H. Haskell Mfg. Co.	
Code "GR"			
Nut 162483	SA-194, 2H	Daniel Bolt Co.	
Code "83"			
(d) Other Parts			
Plug 337280	SA-105, Gr. 2	Erie Fastener, Inc.	
Code "28"			

Duquesne Light Company
Beaver Valley Unit No. 2
P.O. No. 28V-73, I.O. No. 12241
Carbon Steel Valves - 2½ In. and Larger
Category I

Walworth Company
Greensburg, PA 15601

8. 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. 1, Edition 1971, Addenda June 30, 1972 (Date), Code Case No. 1672.

Signed Walworth Co. (Manufacturer) by [signature] Date 5/12/77

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

G. J. M. Hill

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.

VALVE
D63780
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 5-17-19 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 5-17-19 77

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

00007

Form No. 808

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 05-03-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 3

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

   Shippingport, PA 15077 (Address) — MWR#040S02 (Repair Organization P.O. No., Job No., etc.)

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

   Shippingport, PA 15077 (Address) — Authorization No. —
   Expiration Date —

4. Identification of System Recirculation Spray (Class 2)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72 Addenda, N140 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Gate Valve	Walworth	A1100	1106	2RSS-3	1978	Repaired	YES
Disc	Crane Valves	C4688	N/A	—	1995	Replacement	YES

7. Description of Work Replaced disc

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form attached. The new disc was machined to fit.

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) Senior Eng Date May 9, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/22/95 to 5/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock (Inspector's Signature) Commissions NB7504 (NISBIS) PA 2162 (National Board, State, Province, and Endorsements)

Date MAY 12 19 95

(12/82)

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 Valves Nuclear Operations, 104 N. Chicago St., Joliet, IL 60431
(name and address of NPT Certificate Holder)

2. Manufactured for Duquesne Light Company, P.O. Box 347 Shippingport, PA 15077
(name and address of purchaser)

3. Location of installation Beaver Valley Nuclear Power Station, P.O. Box 4, Shippingport, PA 15077
(name and address)

4. Type CA00388, Rev. B (drawing no.) | SA479 TP304 A (mat'l. spec. no.) | 80,700 PSI (tensile strength) | N/A (CRN) | 1995 (year built)

5. ASME Code, Section III: 1971 (edition) | Winter 1972 (addenda date) | 2 (class) | 1672 (Code Case no.)

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

7. Remarks: P.O. No. D138613, S.O. No. 069000487-001N, Disc for a 4" N-226-SP, 150# Gate Valve, Assy. Dwg. No. D-50942, Rev. 3, P/N CA00388 (.030" OVERSIZED EACH FACE) Material Supplier: Coulter Steel & Forge Co., HT No. 686974 * No Hydro Performed

8. Nom. thickness (in.) 1.125 Min. design thickness (in.) 1.06 Dia. ID (ft & in.) 5" Length overall (ft & in.) 1/3/8"

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)	C4688	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 150 lb ANSI psi. Temp. N/A °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.

FORM N-2 (back)

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

Design specifications certified by Alan J. Fiorente (when applicable) P.E. State PA Reg. no. 032365-C

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) Disc conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2900 Expires September 24, 1996

Date 04/20/95 Name Crane Valves Nuclear Operations (NPT Certificate Holder) Signed _____ (Authorized representative)

Jerome A. Kurowski, P.E.

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 * Protection Mutual of Norwood, MA have inspected these items described in this Data Report on April 20, 1996, 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 04/20/95 Signed _____ (Authorized Inspector) Commissions 3211077 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

* Factory Mutual Engineering Association

Jim Bush

SERIAL NO: A1100
MARK NO: 2RSS-3
TYPE: VGW015-X-2
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, 1200 W. Elizabeth Avenue, 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 Gate 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)	N226SP	A1100		D-50942	2	1106	1978
(2)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

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

Mark No.	Material Spec. No.	Manufacturer	Heat #
(a) Castings			
Body	SA-351 CF8	Walworth/Aloyco	3316D
Bonnet	SA-351 CF8	Walworth/Aloyco	5704E
Disc	SA-351 CF8	Walworth/Aloyco	5619C
(b) Forgings			
N/A			

Duquesne Light Co.
Beaver Valley #2
2BV-66 *4"-N226-SP
Desc. 4"-N226-SP
Tag 2RSS-3
Walworth/Aloyco
Linden, N. J.

9/9
V55

(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	Serial or Heat No.
(c) Bolting			
Studs	SA-193, Gr B8	B & G	X140T
Nuts	SA-194, Gr 8	B & G	XG41S
(d) Other Parts			
Plug	SA182, TP 304	CAMCO	MU

8. 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. 1, Edition 1971, Addenda Winter 1972, Code Case No. 1672. Date Sept 14, 1981

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

Our ASME Certificate of Authorization No. N-2076 to use the N, NV (as 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 HSB&I Co. of Hartford, Ct. have inspected the pump, or valve, described in this Data Report on 9/24 19 81 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 9/24 19 81

[signature] (Inspector)

Commissions NB 7149 (Nat'l Bd., State, Prov. and No.)

Form No. 809

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 05-04-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 3

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#041700 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 Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72A Addenda, --- Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Piping	Power Piping	N1141-5071	N/A	SWS-46-1E	1980	Replaced	YES
Piping	DLCo	N/A	N/A	2-SWS-004 -046-3	1995	Replacement	NO

7. Description of Work Rep[illegible]d eroded/corroded section of pipe and elbow.

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

FORM NIS-2 (Back)

9. Remarks: Replacement was performed in accordance with Code Case N-416-1 and as supplemented by the requirements of 12-07-94 letter from the NRC granting relief, surface exams were performed on the root and final layer of weld.

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) Senior Eng Date May 12, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4/27/95 to 5/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

Robert Cimock (Inspector's Signature) Commissions NB7509(NISBIS) PA 2162 (National Board, State, Province, and Endorsements)

Date MAY 12 19 95

(12/82)

Service Water System (SWS) PART II

CORRECTED COPY

FORM N-4 DATA REPORT FOR INSTALLATION OR SHOP ASSEMBLY OF NUCLEAR POWER PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES*

2SR-30-09F-SWS

As Required by the Provisions of the ASME Code Rules, Section III, Division 1 Sheet 1 of 25

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-30-09F-SWS~~ N/A Att. 10 Nat'l Bd No N/A Year installed 1986
2-SR-30-09F-SWS (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)

(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"				N/A	
See Attachment (5) "Field Modified Small Bore Subassemblies Installed"				N/A	
NO FURTHER ENTRIES					

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Req. 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.
HSBI & I CO.: Hartford Steam Boiler Inspection & Insurance Company
PPC: Power Piping Company

7. (a) Installation in Accordance with:

Procedure or Drawing No — Prepared by

See Attachment (8) "Design Drawings & Revisions"
See Attachment (9) "Procedures & Specifications"
NO FURTHER ENTRIES

(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 25 "CERTIFICATION OF DESIGN..." footnote.

2-SR-30-09F-SWS ~~2-SR-30-09-SWS-2~~ RK 10-14-86

N-8 DATA REPORT ATTACHMENT 3

Sheet 8 Of 25

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 Service Water System(SWS) ~~2-SR-30-09-SWS-2~~ YEAR INSTALLED 1986 (Manf. Serial No.) 2-SR-30-09F-SWS RK 10-14-86

Continued from Sheet 7

* Modified 1984

FIELD MODIFIED LARGE BORE SUBASSEMBLIES INSTALLED

(A) Item No.	(B) Large Bore Subassemblies No./Serial No.	(C) Name of Certificate Holder	(D) Large Bore Isometric Number	(E) Year Built
16	SWS-46-1A/N-1141-5071	Power Piping Co.	173005	1980*
17	SWS-46-1C/N-1141-5071	Power Piping Co.	173005	1980*
18	SWS-46-1E/N-1141-5071	Power Piping Co.	173005	1980*
19	SWS-46-2A1B/N-1141-5072	Power Piping Co.	173005	1980*
20	SWS-46-2C/N-1141-5072	Power Piping Co.	173005	1980*
21	SWS-46-2D/N-1141-5072	Power Piping Co.	173005	1980*
22	SWS-49-1A/N-1141-5073	Power Piping Co.	173005	1980*
23	SWS-49-1C/N-1141-5073	Power Piping Co.	173005	1980*

NO FURTHER ENTRIES

RK 10/16/86

Continued on Sheet N/A

Date 10/16/86 Schneider Power Corp. (N-8 Certificate Holder) Signed (Auth. Insp.) Commissions PA-3000 2 W (Insp's Natl. Board, State and No.)

Date 10/17/86 (Commercial Inspector) Signed (Auth. Insp.) Commissions (Insp's Natl. Board, State and No.)

Date 10/23/86 Stone & Webster Eng. Corp. (N Certificate Holder) Signed (Authorized Inspector) Commissions PA-0528 (Insp's Natl. Board, State and No.)

Date 10/28/86 (Commercial Inspector) Signed (Auth. Insp.) Commissions (Insp's Natl. Board, State and No.)

2-SR-30-09F-SWS ~~2-SR-30-09-SWS-2~~ RK 10-16-86

N-5 DATA REPORT
ATTACHMENT 10

Sheet 23 Of 25

CORRECTED COPY

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 Service Water System(SWS) ~~2-SR-30-09-SWS-2~~ YEAR INSTALLED 1986
(Mfr. Serial No.)
2-SR-30-09F-SWS RK 10-16-86

DESCRIPTION OF INSTALLATION PERFORMED

Continued from Sheet 1

Drawing No. and Rev.	Prepared By	Drawing No. and Rev.	Prepared By
173007-~~1~~ 1G RK 10-23-86 DM 10-27-86 BRL 10-23-86	PPC & SPC		
173005-0E	PPC & SPC		
173006-0D	PPC & SPC		
173008-0G	PPC & SPC		
173098-0G	PPC & SPC		
710-009-4	SPC		
710-022-5	SPC		
710-021-6	SPC		
DRAVO 9A-~~1~~ 13 RK 10-27-86	DRAVO, SWEC & SPC		
DRAVO 20A-~~1~~ 13	DRAVO, SWEC & SPC		
DRAVO 22A-~~1~~ 10	DRAVO, SWEC & SPC		
710-029-6	SPC		
710-016-5	SPC		

NO FURTHER ENTRIES

Revision level Control Drawings designated as "AC" have been reconciled with the control drawing revision listed and have no impact on the ASME III Code ~~fabrication~~/installation delineated in this N-5 report.

RFP SWEC 10-27-86

RK 10/16/86

Continued on Sheet N/A

Date 10/28/86 Schneider Power Corp. Signed [signature]
(N Certificate Holder)

Date 10/27/86 [signature] Commission PA-2002-F
(AHI Signature) (Nat'l Board, State and No.)

Date 10/27/86 Stone & Webster Eng. Corp. Signed [signature]
(N Certificate Holder)

Date 10/28/86 [signature] Commission NA-7526
(AHI Signature) (Nat'l Board, State and No.)

2-SR-30-09F-SWS ~~2-SR-30-09-SWS-2~~ KH 10-14-86

N-5 DATA REPORT
ATTACHMENT 12

Sheet 25 Of 25

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 Service Water System(SWS) ~~2-SR-30-09-SWS-2~~ YEAR INSTALLED 1986
(Mfr. Serial No.) 2-SR-30-09F-SWS KH 10-14-86

Continued from Sheet 2

LATER CODE EDITION(S) AND ADDENDA(S) INVOKED, AND CODE CASES INVOKED

Later Edition(s)/Addenda(s) of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, invoked for use during Plant construction. As authorized by the Design Specification, material may have been procured and certified to later Editions/Addenda of the ASME Code. The specific Edition/Addenda to which the material was procured and certified is identified on the Certified Material Test Report or Certificate of Compliance furnished with the material and referenced on Attachment (7) to this N-5 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	WINTER 1981	NB/NC/ND	4427-1	2BVS-920
1980	WINTER 1982	NCA	8000	2BVS-920
1974	SUMMER 1976	NX	4435	2BVS-920
1980	SUMMER 1981	NCA	8240(b)	2BVS-920
1974	N/A	NB/NC/ND	3641.1	2BVS-939
1977	SUMMER 1978	NC/ND	3643.1	2BVS-939
1977	SUMMER 1978	NC/ND	3643.3	2BVS-939
1983	SUMMER 1983	APPENDIX V	N/A	2BVS-920
1974	N/A	ND	4231.2	2BVS-920
1983	N/A	NB	6111	2BVS-920
1980	SUMMER 1981	NX	6211	2BVS-920
1980	SUMMER 1980	NCA	1273	2BVS-920
1983	WINTER 1983	NC/ND	4436	2BVS-920

NO FURTHER ENTRIES

Code Case(s) invoked for installation or testing

Code Case Number	Authorizing Document(s)	Code Case Number	Authorizing Document(s)
N-224	2BVS-920	N-292	2BVS-920
N-240	2BVS-920	1606-1	2BVS-939
N-275	2BVS-920	N-392	2BVS-939

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 10/28/86 Schneider Power Corp. Signed RK 10/28/86
(N Certificate Holder)
Date 10/27/86 (ANI Signature) Commissions 88-2000-N
(Nat'l Board, State or Prov. No.)
Date 10/28/86 Stone & Webster Eng. Corp. Signed
(N Certificate Holder)
Date 10/28/86 (ANI Signature) Commissions
(Nat'l Board, State or Prov. No.)

Form No. 810

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 05-03-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 2

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#041580 (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 Main Steam (Loop 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, 1672, 1567 Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Walworth	D63916	1288	2MSS-196	1977	Repaired	YES

7. Description of Work Replaced and seal welded hinge pin plug.

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form 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] Servic- Engr (Owner or Owner's Designee, Title) Date May 15, 19 95

CERTIFICATE OF INSERVICE INSPECTION

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

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 Engr. Assn.

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

Date _____ 19_____

(12/82)

PN31299-ATT

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)	9350 WE	D63916	N/A	SK-1954-10 E	3	1288	1977
(2)			Duquesne Light Company				
(3)			Beaver Valley Unit No. 2				
(4)			P. O. No. ZSV-73, I O. No. 12261				
(5)			Carbon Steel Valves - 2½ in. and Less				
(6)			Category I				
(7)			Walworth Company				
(8)			Greensburg, PA 15601				
(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 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 143D F1	SA-216, WCB	Valve Castings	Seal Welded Sea
Cover A986 F1	SA-216, WCB	Walworth Co.	CoCrA Backsea
Disc F829 F1	SA-216, WCB	Walworth Co.	CoCrA Faced
		VALVE	
(b) Forgings		D63916	
		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 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.

This form (E00030) 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 3 1/8 - 8 7194 Code "XC"	SA-193, B7	Daniel Boit Co.	
Nut C9814 Code "XC"	SA-194, 2H	R. E. C. Corp.	
(d) Other Parts			
Plug BM31	SA-105	Bonney Forge Div.	

Duquesne Light Company
Beaver Valley Unit No. 2
P. O. No. 2BV-13, P. O. No. 12341
Carbon Steel Valves - 2½ in. and Larger
Category C

Walworth Company
Greensburg, PA 15601

8. 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. 1, Subsection 1971

Addenda June 30, 1972 (Date). Code Case No. 1672 12/22/77

Signed Walworth Co. (Manufacturer) by G. J. M. Hill 1/6/78

Our ASME Certificate of Authorization No. 959 to use the N (stamp) symbol expires (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.

VALVE

063916

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 of Hartford Conn. 06102 have inspected the pump, or valve, described in this Data Report on 12/29/77 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 12/29/77

Inspector

Commissions NB 5857 Pa 6810

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

Form No. 812

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 05-03-95

One Oxford Centre - Pittsburgh, PA 15279 (Address) — Sheet 1 of 2

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

Shippingport, PA 15077 (Address) — MWR#041579 (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 Main Steam (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, S'72 Addenda, 1672, 1567 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Check Valve	Walworth	D-66327	1824	2MSS-352	1978	Repaired	YES

7. Description of Work Replaced five bonnet studs and seal welded hinge pin plug.

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

FORM NIS-2 (Back)

9. Remarks: NPV-1 form attached.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp 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 May 15, 19 95
(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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 4-21-95 to 5-16-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature]
(Inspector's Signature)

Commissions NB 3214 Rad PA 2245
(National Board, State, Province, and Endorsements)

Date 5-16 19 95

(12/82)

SERIAL NO: D-66327
MARK NO: 2MSS-352
TYPE: VCW060-A-2
COMMENTS: _____

2BV-07

FORM NPV-1 MANUFACTURER'S 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 Co. Shippingport, PA
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Shippingport, PA.
(Plant and Address)
4. Pump or Valve Valve Nominal Inlet Size 3" Outlet Size 3"

(a) Model No., Series No., or Type	(b) Manufacturer's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
5350 BC	D-66327	N/A	SK-1954-96	2	14624	1977

(h) Remarks: Duquesne Light Beaver Valley P.O. No. 8BV-96, S.O. 11, 168-55 Carbon steel valves 2½" to and larger Class 2

6. Walworth Company
Oil/Steam/Water Greensburg, PA 15601
(Brief description of service for which equipment was designed)

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

Parts	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body - 8170 P4	SA 216, WCB	Valve Castings	Seal Welded Seat
Cover - 8170 P4	SA 216, WCB	Walworth Company	
Disc - 8295 P4	SA 216, WCB	Walworth Company	CoCrA Faced Seat
(b) Forgings			

VALVE
006327
SERIAL NO.

(1) For nominally operating valves only.

005

* Supplementary 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.

1190

Item No.	Material Spec. No.	Manufacturer	Remarks
(a) Body			
Stud = 2 3/4" Code = "SW"	SA 193, Gr. B7	K. K. C	
Nut = CA448 Code = "SW"	SA194, Gr. 2H	K. K. C	
Bolt = W.774 Code = "SW"	SA194, Gr. 2H	William L. Keene	
Bolt = CA744 Code = "SW"	SA 194, Gr. 2H	K. K. C	
(d) Other Parts			
Pin[illegible] = 8831	SA-105	Kimray Valve	
		VALVE	Company
		064397	F. O. No. 2-773, S. O. No. 480-61

6. Hydrostatic test 2175 psi. Carbon Steel Valves - 4½ in. and Larger Category (

SERIAL NO.

CERTIFICATE OF COMPLIANCE

Welworth Company
Greensburg, PA 15601

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 Piping Components, Section III, Div. 1, Edition 1971, Addenda June 30, 1972, Code Case No. 1672, Date 11-14-78

Signed Welworth Company (Manufacturer) by R. Johnson

Our ASME Certificate of Authorization No. 1951 to use the N (or NV) symbol expires 12/9/80

CERTIFICATION OF DESIGN

Design information on file at Welworth 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 PA Reg. No. 016297E

Stress analysis certified by (1) N/A

PE State _____ Reg. No. _____

(1) Signatures not required. List names 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 11-14 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 11-14 19 78

Inspector's Signature

Commissions N. 7912 N

National Board, State, Province, and No.

Form No. 814

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 05-04-95

   One Oxford Centre - Pittsburgh, PA 15279 (Address) Sheet 1 of 4

2. Plant Beaver Valley Power Station (Address) Unit No. 2

   Shippingport, PA 15077 (Address) MWR#041904 (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 Service Water (Class 3)

5. (a) Applicable Construction Code Section III 1971 Edition, W'72A Addenda, — Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

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)
Piping	Power Piping	N-1141-5052	N/A	SWS-44-2B1	1980	Replaced	YES
Piping	DLCo	N/A	N/A	2-SWS-004 -044-3	1995	Replacement	NO

7. Description of Work Replaced eroded/corroded elbow.

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

FORM NIS-2 (Back)

9. Remarks: Replacement was performed in accordance with Code Case N-416-1 and as supplemented by the requirements of 12-07-94 letter from the NRC granting relief, surface exams were performed on the root and final layer of weld.

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. Date May 12, 19 95
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 Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 5-2-95 to 5-15-95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Engr. Assn.

[signature] Commissions NB 8314 Mass. 8224
Inspector's Signature National Board, State, Province, and Endorsements

Date 5/15 19 95

(12/82)

Service Water System (Partial)

CORRECTED COPY

FORM N-5 DATA REPORT FOR INSTALLATION OF NUCLEAR POWER PLANT COMPONENTS, COMPONENT SUPPORTS, AND MAINTENANCES*

~~2-SR-30-09A-SWS-1~~ 2-SR-30-09A-SWS

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

Sheet 1 of 25

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-30-09-SWS-1~~ 2-SR-30-09A-SWS N/A (Mfr Serial No.) Att. 10 (CRN) (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)

(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 Subessemblies Installed"					
See Attachment (3) "Field Modified Large Bore Subassemblies Installed"					
See Attachment (4) "Shop Fabricated Small Bore Subessemblies Installed"				NA	
See Attachment (5) "Field Modified Small Bore Subassemblies Installed"				NA	
	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.
HSBI & I CO.: Hartford Steam Boiler Inspection & Insurance Company
PPC: Power Piping Co.

7. (a) Installation in Accordance with:

Procedure or Drawing No. — Prepared by

See Attachment (8) "Design Drawings & Revisions"
See Attachment (9) "Procedures & Specifications"
NO FURTHER ENTRIES

(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 6 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 "CERTIFICATION OF DESIGN..." footnote.

Service Water System (PARTIAL)

~~2-SR-30-09-SWS-1~~
CORRECTED COPY
2-SR-30-09A-SWS
RA 10-13-86

FORM N-5 (Back)

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

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

Design Report on file at A stress report is not required for Class 2 or 3 piping systems.

Design specifications certified by (1) W. L. Ramsden PE State Pennsylvania

Reg No 28975

Design Report certified by (1) A stress report is not req'd PE State N/A

Reg No for Class 2 or 3 piping systems. # SEE ATTACHMENT(11) "System Working & Design, Pressure Temperature & Hydrostatic/ Pneumatic Tests"

(1) Signature not required. List name only.

Design Conditions of Piping ___ psi Pressure ___ F Temperature

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 W'71 and '72 & * Code Case No. * Class 3 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 Symbol expires 8-12-89

Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.

Date 10/27/86 Signed Schnelder Power Corp. by R.K. Hallyburton (N. Nat'l Bd. Comm. No.) (Date)

(Certificate Holder)

* 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 10-17 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 10-17 1986 Signed D.F. Campbell (Inspector) Commissions PA 7214-N (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE

Following completion of the [illegible] 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 10/27/86 Signed Stone & Webster Engr. by John J Purcell (N-Certificate Holder)

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 10/28 1986 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 10/28 1986

Signed Raymond (Inspector) Commissions NB. 2052 N (Nat'l Board, State, Province and No.)

2-SR-30-09A ~~2-SR-30-09-SWS-1~~

N-5 DATA REPORT
ATTACHMENT 3

Sheet 7 Of 25

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 Service Water System(SWS) ~~2-SR-30-09-SWS-1~~ YEAR INSTALLED 1986
(Mfr. Serial No.)
2-SR-30-09A-SWS RK 10-7-86

Continued from Sheet 1

* Modified 1984

FIELD MODIFIED LARGE BORE SUBASSEMBLIES INSTALLED

(A) Item No.	(B) Large Bore Subassemblies No./Serial No.	(C) Name of Certificate Holder	(D) Large Bore Isometric Number	(E) Year Built
1	SWS-44-1A/N-1141-5051	Power Piping Co.	173001	1980*
2	SWS-44-1B/N-1141-5051	Power Piping Co	173001	1980*
3	SWS-44-2B1/N-1141-5052	Power Piping Co.	173001	1980*
4	SWS-44-2B3/N-1141-5052	Power Piping Co.	173001	1980*
5	SWS-44-3A1/N-1141-5053	Power Piping Co.	173001	1980*
6	SWS-44-3A3R/N-1141-5053	Power Piping Co.	173001	1980*
7	SWS-44-3B/N-1141-5053	Power Piping Co.	173001	1980*
8	SWS-44-3D/N-1141-5053	Power Piping Co.	173001	1980*
9	SWS-50-4A/N-1141-5054	Power Piping Co.	173001	1980*
10	SWS-50-4C/N-1141-5054	Power Piping Co.	173001	1980*
11	SWS-55-1A/2-SWS-173004-3	Power Piping Co.	173004	1980*
12	SWS-518-1A/2-SWS-173004-5	Power Piping Co.	173004	1981*
13	SWS-518-1B/2-SWS-173004-5	Power Piping Co.	173004	1981*
14	SWS-57-1A/N-1141-5069	Power Piping Co.	173004	1982*
15	SWS-57-1C/N-1141-5069	Power Piping Co.	173004	1982*

Continued on Sheet 8

RK 10/16/86

Date 10/8/86 Schneider Power Corp. Signed [signature]
N-5 Certificate Holder
Date 10-17-86 [signature] Commission [illegible]
Authorized Inspector (Nat'l Board, State and No.)
Date 10/27/86 Stone & Webster Eng. Corp Signed [signature]
N Certificate Holder
Date 10/28/86 [signature] Commission PA 02524
Authorized Inspector (Nat'l Board, State and No.)

2-SR-30-09A-SWS ~~2-SR-30-~~ RK 10-13-86

N-5 DATA REPORT
ATTACHMENT 7

Sheet 5

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 Service Water System (SWS) ~~2-SR-30-09-SWS-1~~ YEAR INSTALLED 1986
(Mfr. Serial No.) 2-SR-30-09A-SWS RK 10-13-86

Continued from Sheet 1

ADDITIONAL MATERIAL

SWEC as the N Certificate Holder acc[illegible] overall Code responsibility and subcon[illegible]ng installation to appropria[illegible] NA Certificate Holders retains primary [illegible]e responsibility for material purchased [illegible]EC and provided to installers at Beaver Valley - Unit 2. In satisfying this responsibility, SWEC performs and docum[illegible]s 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 (T) (See Manuf. Data Package for Manuf. Info.)
1	173001(ITEM#3)	1 ½" THERMOWELL	F.S. SA105 (T) 2SWS*TI 101B HT#AEI
2	173001(ITEM#8)	3/4" 90° ELBOW	F.S. S/W 3000# SA105 HT.#AP-5
3	173001(ITEM#9)	3/4" PIPE	SCH.80 SMLS SA106 GR.B HT.#E32255
4	173001(ITEM#10,37)	½" PIPE	SCH.80 SMLS SA[illegible]6 GR.B HT.#M23728
5	173001(ITEM#12)	4" FLANGE	150# RF WN SA[illegible]5 BORE STD.WT. HT.#RY2F
6	173001(ITEM#13)	1¼" SOCKOLET	F.S. S/W 3000# SA105 HT.#M601
7	173001(ITEM#14)	4" PIPE	SCH. XXS SMLS. SA106 GR.B HT.#67485
8	173001(ITEM#21)	5/8" STUD BOLT	SA193 GR.B7 NA
9	173001(ITEM#21)	5/8" HEX NUT	SA194 GR.2H NA
10	173001(ITEM#22)	3/4" STUD BOLT	SA193 GR.B7 NA
11	173001(ITEM#22)	3/4" HEX NUT	SA194 GR.2H NA
12	173001(ITEM#23)	3/4" STUD BOLT	SA193 GR.B7 NA

(T) indicated to be utilized for accessability to the SWEC traceability program. RK 10/16/86

Continued on Sheet 11

Date 10/6/86 Schneider Power Corp. Signed [signature]
NA Certificate Holder
Date 10-7-86 [signature] Commission [illegible]
A.I. Signature (Nat'l Board, State and No.)
Date 10/27/86 Stone & Webster Eng. Corp. Signed [signature]
N Certificate Holder
Date 10/29/86 [signature] Commission PA 2058 N
(Nat'l Board, State and No.)

2-SR-30-09A-SWS ~~2-SR-30-09-SWS-1~~ RK 10-17-86

N-5 DATA REPORT
ATTACHMENT 10

Sheet 22 of 25

CORRECTED COPY

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 Service WaterSystem(SWS) ~~2-SR-30-09-SWS-1~~ YEAR INSTALLED 1986
(Mfr. Serial No.) 2-SR-30-09A-SWS RK 10-17-86

DESCRIPTION OF INSTALLATION PERFORMED

Continued from Sheet 1

Drawing No. and Rev.	Prepared By	Drawing No. and Rev.	Prepared By
173001-0F	PPC & SPC		
173002-0G	PPC & SPC		
173003-1E	PPC & SPC		
173004-0F	PPC & SPC		
~~173097-1F~~	~~PPC & SPC~~ RK 10-23-86		
173099-0E	PPC & SPC RK 10-23-86		
710-010-5	SPC		
710-016-5	SPC		
710-021-6	SPC		
710-022-6	SPC		
710-029-6	SPC		
DRAVO 10A-[illegible] 13	DRAVO, SWEC & SPC		
DRAVO 21A-[illegible] 13	DRAVO, SWEC & SPC		
DRAVO 23A-[illegible] 11	DRAVO, SWEC & SPC		

RK 10-17-86

NO FURTHER ENTRIES

Revision Level Control Drawings designated as "AC" have been reconciled with the control drawing revision listed and have no impact on the ASME III Code fabrication/~~installation~~ delineated in this N-5 data report. RK 10/16/86
Ref installation 10-24-86 MFP sug. 10-17-86

Continued on Sheet N/A

Date 10/24/86 Schneider Power Corp. Signed [signature]
N.A. Certificate Holder

Date 10-17-86 [signature] Commission [illegible]
ANI Signature (Nat'l Board, State and No.)

Date 10/27/86 Stone & Webster Eng. Corp. Signed [signature]
N Certificate Holder

Date 10/28/86 [signature] Commission [illegible]
ANI Signature (Nat'l Board, State and No.)

2-SR-30-09A-SWS ~~2-SR-30-09-SWS-1~~

KH 10-11-86

N-5 DATA REPORT
ATTACHMENT 12

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 Service Water System (SWS) ~~2-SR-30-09-SWS-1~~ YEAR INSTALLED 1986
(Mfr Serial No.) 2-SR-30-09A-SWS KH 10-11-86

Continued from Sheet 2

LATER CODE EDITION(S) AND ADDENDA(S) INVOKED, AND CODE CASES INVOKED

Later Edition(s)/Addenda(s) of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, invoked for use during Plant construction. As authorized by the Design Specification, material may have been procured and certified to later Editions/Addenda of the ASME Code. The specific Edition/Addenda to which the material was procured and certified is identified on the Certified Material Test Report or Certificate of Compliance furnished with the material and referenced on Attachment (7) to this N-5 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	NB/NC/ND	4427-1	2BVS-920
1980	Winter 1982	NCA	8000	2BVS-920
1974	Summer 1976	NX	4435	2BVS-920
1980	Summer 1981	NCA	8240(b)	2BVS-920
1974	N/A	NB/NC/ND	3641.1	2BVS-939
1977	Summer 1978	NC/ND	3643.1	2BVS-939
1977	Summer 1978	NC/ND	3643.3	2BVS-939
1983	Summer 1983	Appendix V	N/A	2BVS-920
1974	N/A	ND	4231.2	2BVS-920
1983	N/A	NB	6111	2BVS-920
1980	Summer 1981	NX	6211	2BVS-920
1980	Summer 1980	NCA	1273	2BVS-920
1983	Winter 1983	NC/ND	4456	2BVS-920

NO FURTHER ENTRIES

Code Case(s) invoked for installation or testing

Code Case Number	Authorizing Document(s)	Code Case Number	Authorizing Document(s)
N-224	2BVS-920	N-292	2BVS-920
N-240	2BVS-920	1606-1	2BVS-939
N-275	2BVS-920	N-392	2BVS-939

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 10/10/86 Schneider Power Corp. (N-A Certificate Holder) Signed [signature] (Authorized Inspector)

Date 10-21-86 [signature] (ANI Signature) Commissions [illegible] (Nat'l Board, State and No.)

Date 10/27/86 Stone&Webster Eng. Corp. (N Certificate Holder) Signed [signature] (Authorized Inspector)

Date 10/29/86 [signature] (ANI Signature) Commissions [illegible] (Nat'l Board, State and No.)