

INSERVICE INSPECTION NINETY-DAY REPORT

BEAVER VALLEY POWER STATION UNIT 2

Outage 4 Year 1993

Inspection Term from 5/8/92 to 11/24/93

Issue date: 2/15/94

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

NRC Docket Number: 50-412

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

Prepared by: *D. Spabaki* Date: 1/31/94

WMS

Reviewed by: *Greg Kammerdeiner* Date: 2-7-94
Director, Stds & Matls

Reviewed by: *Pat L...* Date: 2-14-94
ANII

Approved by: *W. M. ...* Date: 2/15/94
Gen Manager, Nuc Engr and Safety

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

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

2. Plant Beaver Valley Power Station, PO 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 NA

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
21A Steam Generator	Westinghouse	1961	485065	W16598
21B Steam Generator	Westinghouse	1962	485066	W16599
21C Steam Generator	Westinghouse	1963	485067	W16600
Reactor Coolant Piping	Southwest Fabrication	NA	NA	NA
Auxiliary Piping Systems	Sneider Power Corporation	NA	NA	NA
21A RHR Heat Exchanger	Atlas Industrial Mfg. Co.	3483	485068	2853
21A Recirculation Spray Cooler	Joseph Oat Company	2189-1A	485070	890
21A Recirculation Spray Pump	Bingham-Willamette	230439	NA	993 (Suction) NB314 (Disch)
24A Seal Water Injection Filter	Commercial Filters	22174-4809	NA	3585
21A Boric Acid Tank	RECO	19A6111-1	NA	W10
21A CCP Surge Tank	National Annealing Box	6206	NA	2185
Bolting, Valve 2RCS-MOV-585	Copes-Vulcan	7310-95295	NA	NA
Bolting, Valve 2S1S-145	Westinghouse	952200	NA	NA

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-1 (Back)

8. Examination Dates 5/8/92 to 11/24/93 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 text
11. Abstract of Conditions Noted See text
12. Abstract of Corrective Measures Recommended and Taken
See Appendices III and VI

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 NA
Date Feb. 10 19 94 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 Mutual of Norwood, Mass. have inspected the components described in this Owner's Report during the period 5/8/92 to 11/24/94, 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.

[Signature] Commissions NB 314 A. N. I. 12245
Inspector's Signature National Board, State, Province, and Endorsements
Date Feb 14 19 94

Outage Summary

During the Fourth Refueling Outage (4R) at the Beaver Valley Power Station, Unit 2, Inservice Inspection (ISI) exams were performed on Class 1, 2, and 3 components. This was the second outage in the second period of the first ten year interval.

The completion percentage requirements of Tables IWB-2412-1 and IWC-2412-1 have been met for each exam category for the end of the second period (minimum 50% completed, maximum 67% credited).

The exams were based on ASME Section XI, 1983 Edition through the Summer 1983 Addenda, using Code Case N-408 for Class 2 piping welds.

ASME XI Credited Exams (See Appendix I)

1. Ninety-five (95) Class 1 exams were performed and are divided into five (5) groups as follows:
 - a. Welds (piping and vessels)
 - Ultrasonic Exams - 5
 - Penetrant Exams - 20
 - b. Bolting Visual Exams - 66
 - c. Supports Visual Exams - 2
 - d. One (1) UT exam on the Reactor Coolant Pump Flywheel
 - e. One (1) visual exam on the Reactor Vessel Internals
2. Eighty-two (82) Class 2 exams were performed and are divided into two (2) groups as follows:
 - a. Welds (piping, pumps, and vessels)
 - Ultrasonic Exams - 22
 - Penetrant Exams - 36
 - Mag Particle Exams - 4
 - Visual Exams - 9
 - b. Supports
 - Visual Exams - 11
3. Seventeen (17) visual exams of Class 3 supports were performed and divided into two (2) groups as follows:
 - a. Supports
 - Visual Exams - 6
 - b. Attachments
 - Visual Exams - 11

Examinations were performed by Duquesne Light Company and MQS NDE Technicians. Appendix I compiles the exams that have been credited toward fulfilling the Ten Year Plan requirements. Appendix II identifies baseline exams. Appendix III lists additional and successive exams required during 4R.

Pressure Testing

The Class 1 piping System Leakage Test and accompanying VI-2 exam were 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. Hydrostatic testing was performed on the Service Water System.

Steam Generator Tube Examination

One hundred percent of the in-service tubes was examined in the three (3) generators. Results of the examinations are contained in Appendix V.

Baseline Exams

Appendix III identifies those repaired or replaced components that required baseline examination per ASME XI.

Snubber Exams

Snubber exams were performed this outage in accordance with Technical Specification 3/4.7.12, "Snubbers". The results of the exams are contained in the Unit 2 4R Snubber Outage Summary Report.

Deficiency Resolution

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

NIS-2 Forms

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

APPENDIX I
COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT II 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
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** ASME ITEM NUMBER / EXAM CATEGORY: 807.030 B-G-2

* ISOMETRIC: SG21

2RCS*SG21B-H-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-H-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21B-C-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	

DUQUESNE LIGHT COMPANY
BVPS UNIT 11 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2RCS*SG21C-H-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-H-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
2RCS*SG21C-C-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT93340	
** ASME ITEM NUMBER / EXAM CATEGORY: B07.070 B-G-2			
* ISOMETRIC: 110236			
2RCS-MOV585-B-1 TO 12	2RCS-MOV585 STUDS AND NUTS	VT93324	
* ISOMETRIC: 108207			
2SIS-145-B-1 TO 18	2SIS-145 STUDS AND NUTS	VT93360	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.011 B-J			
* ISOMETRIC: 110901			
2RCS-080-F01	PIPE WELD	UT93106 PT93105	
* ISOMETRIC: 107120			
2RHS-056-3A-1A	PIPE WELD	UT93119 PT93118	
2RHS-056-3A-1B	PIPE WELD	UT93120 PT93118	
2RHS-056-3A-1C	PIPE WELD	UT93121 PT93118	
* ISOMETRIC: 108207			
2SIS-071-F05	PIPE WELD	UT93122	4R UT W/ 3R PT COMPLETES REQ'D EXAMS.

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT II 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
		PT93117	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.021 B-J			
* ISOMETRIC: 107419			
2CHS-001-12A-C	BUTT WELD	PT93115	
2CHS-001-12B-D	BUTT WELD	PT93115	
2CHS-001-12B-E	BUTT WELD	PT93115	
2CHS-001-13A	BUTT WELD	PT93115	
2CHS-001-13B	BUTT WELD	PT93115	
* ISOMETRIC: 107428			
2CHS-443-3E	BUTT WELD	PT93110	
2CHS-443-3D	BUTT WELD	PT93110	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.040 B-J			
* ISOMETRIC: 107010			
2RCS-042-F503A	SOCKET WELD	PT93116	
2RCS-042-F504A	SOCKET WELD	PT93116	PT UNSAT. DR-146. CLOS REP PT93140.
		PT93140	
** ASME ITEM NUMBER / EXAM CATEGORY: B10.010 B-K-1			
* ISOMETRIC: 108202			
2SIS-069-F804	WELDED ATTACHMENT FOR 2SIS-PSSH012A	PT93120	
2SIS-069-F805	WELDED ATTACHMENT FOR 2SIS-PSSH012A	PT93120	
2SIS-069-F806	WELDED ATTACHMENT FOR 2SIS-PSSH012B	PT93120	
2SIS-069-F807	WELDED ATTACHMENT FOR 2SIS-PSSH012B	PT93120	
* ISOMETRIC: 108205			
2SIS-067-F505	WELDED ATTACHMENT FOR 2SIS-PSSH006B	PT93144	
2SIS-067-F506	WELDED ATTACHMENT FOR 2SIS-PSSH006B	PT93144	
** ASME ITEM NUMBER / EXAM CATEGORY: B13.010 B-N-1			
* ISOMETRIC: REV21			
2RCS*REV21-INT	VESSEL INTERIOR	VT93363	
** ASME ITEM NUMBER / EXAM CATEGORY: C01.010 C-A			
* ISOMETRIC: CHSFLT24			
2CHS*FLT24A-W-1	CIRCUMFERENTIAL SHELL WELD # 1	UT93107	
* ISOMETRIC: RHSE21			
2RHS*E21A-W-1	SHELL CIRCUMFERENTIAL WELD # 1	UT93127	

DUGUESNE LIGHT COMPANY
BVPS UNIT II 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: C01.020 C-A			
* ISOMETRIC: CHSFLT24 2CHS*FLT24A-W-2	CIRCUMFERENTIAL HEAD WELD # 2	UT93108	
* ISOMETRIC: SG21 2RCS*SG21B-C-08	HEAD CIRCUMFERENTIAL WELD # 8	UT93118	
* ISOMETRIC: RHSE21 2RHS*E21A-W-2	HEAD CIRCUMFERENTIAL WELD # 2	UT93128	UT LIMITED (40% COVRG). SEE RR#BV2-C1.20-2.
** ASME ITEM NUMBER / EXAM CATEGORY: C02.021 C-B			
* ISOMETRIC: CHSFLT24 2CHS*FLT24A-W-3	NOZZLE TO SHELL WELD # 3 (INLET)	UT93109 PT93108	LIMITED EXAM (50%). SEE RR#BV2-C2.21.2.
2CHS*FLT24A-W-4	NOZZLE TO SHELL WELD # 4 (OUTLET)	UT93110 PT93108	LIMITED EXAM (50%) SEE RR#BV2-C2.21.2.
** ASME ITEM NUMBER / EXAM CATEGORY: C03.010 C-C			
* ISOMETRIC: RSSE21 2RSS*E21A-WS-05A	SUPPORT 3 - GUSSET PLATE WELD # 5AWS	PT93113	
2RSS*E21A-WS-05B	SUPPORT 3 - GUSSET PLATE WELD # 5BWS	PT93113	
2RSS*E21A-WS-05C	SUPPORT 3 - GUSSET PLATE WELD # 5CWS	PT93113	
2RSS*E21A-WS-05D	SUPPORT 3 - GUSSET PLATE WELD # 5DWS	PT93113	
2RSS*E21A-WS-06A	SUPPORT 3 - GUSSET PLATE WELD # 6AWS	PT93113	
2RSS*E21A-WS-06B	SUPPORT 3 - GUSSET PLATE WELD # 6BWS	PT93113	
2RSS*E21A-WS-06C	SUPPORT 3 - GUSSET PLATE WELD # 6CWS	PT93113	
2RSS*E21A-WS-06D	SUPPORT 3 - GUSSET PLATE WELD # 6DWS	PT93113	
2RSS*E21A-WS-07A	SUPPORT 3 - GUSSET PLATE WELD # 7AWS	PT93113	
2RSS*E21A-WS-07B	SUPPORT 3 - GUSSET PLATE WELD # 7BWS	PT93113	
2RSS*E21A-WS-07C	SUPPORT 3 - GUSSET PLATE WELD # 7CWS	PT93113	
2RSS*E21A-WS-07D	SUPPORT 3 - GUSSET PLATE WELD # 7DWS	PT93113	
2RSS*E21A-WS-08A	SUPPORT 3 - GUSSET PLATE WELD # 8AWS	PT93113	
2RSS*E21A-WS-08B	SUPPORT 3 - GUSSET PLATE WELD # 8BWS	PT93113	
2RSS*E21A-WS-08C	SUPPORT 3 - GUSSET PLATE WELD # 8CWS	PT93113 PT93121	PT UNSAT. DR-143. CLOS REP PT93121.
2RSS*E21A-WS-08D	SUPPORT 3 - GUSSET PLATE WELD # 8DWS	PT93113	
** ASME ITEM NUMBER / EXAM CATEGORY: C03.020 C-C			
* ISOMETRIC: 100212 2MSS-043-F800	WELDED ATTACHMENT FOR 2MSS-PSSH006A	MT93070	
2MSS-043-F801	WELDED ATTACHMENT FOR 2MSS-PSSH006B	MT93070	
2MSS-043-F802	WELDED ATTACHMENT FOR 2MSS-PSSH006B	MT93070	

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT II 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
2MSS-043-F803	WELDED ATTACHMENT FOR 2MSS-PSSH006A	MT93070	
** ASME ITEM NUMBER / EXAM CATEGORY: C03.030 C-C			
* ISOMETRIC: R5SP21			
2RSS*P21A-WS-1	INTEGRAL WELDED ATTCHMENT WELD # 1WS	PT93125	
2RSS*P21A-WS-2	INTEGRAL WELDED ATTCHMENT WELD # 2WS	PT93125	PT LIMITED (40%CVRG) SEE RR#BV2-C3.30-1.
2RSS*P21A-WS-3	INTEGRAL WELDED ATTCHMENT WELD # 3WS	PT93142	
2RSS*P21A-WS-5	INTEGRAL WELDED ATTCHMENT WELD # 5WS	PT93142	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.011 C-F-1			
* ISOMETRIC: 107932			
2QSS-1 -2A3D	BUTT WELD	UT93111 PT93106	
* ISOMETRIC: 107934			
2QSS-002-F01	BUTT WELD	UT93115 PT93112	
2QSS-2 -1AG	BUTT WELD	UT93116 PT93112	
2QSS-002-F502	BUTT WELD	UT92113 PT93107	
2QSS-2 -2A1A	BUTT WELD	UT93112 PT93107	
* ISOMETRIC: 107103			
2RHS-6 -4B	BUTT WELD	UT93124 PT93123	
2RHS-6 -5A	BUTT WELD	UT93125 PT93123	
2RHS-6 -5B	BUTT WELD	UT93126 PT93123	
* ISOMETRIC: 107121			
2RHS-018-F05	BUTT WELD	UT93123 PT93119	
* ISOMETRIC: 107972			
2RSS-010-F510	BUTT WELD	UT93103 PT93104	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.021 C-F-1			
* ISOMETRIC: 108350			
2S1S-94 -4AC	BUTT WELD	UT93101	

DUQUESNE LIGHT COMPANY
BVPS UNIT 11 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
		PT93102	
* ISOMETRIC: 108395 2SIS-091-F502	BUTT WELD	UT93103 PT93103	
* ISOMETRIC: 110141 2SIS-105-F2	BUTT WELD	UT93114 PT93109	
** ASME ITEM NUMBER / EXAM CATEGORY: C05.051 C-F-2			
* ISOMETRIC: 100207 2MSS-170-F503	BUTT WELD	UT93105	
2MSS-170-F502	BUTT WELD	UT93104	
** ASME ITEM NUMBER / EXAM CATEGORY: C06.010 C-G			
* ISOMETRIC: RSSP21 2RSS*P21A-W-09	PUMP CASING WELD # 9	VT93366	
2RSS*P21A-W-10	PUMP CASING WELD #10	VT93366	
2RSS*P21A-W-11	PUMP CASING WELD #11	VT93366	
2RSS*P21A-W-12	PUMP CASING WELD #12	VT93366	
2RSS*P21A-W-13	PUMP CASING WELD #13	VT93366	
2RSS*P21A-W-15	PUMP CASING WELD #15	VT93366	
2RSS*P21A-W-16	PUMP CASING WELD #16	VT93366	
2RSS*P21A-W-17	PUMP CASING WELD #17	VT93366	
2RSS*P21A-W-18	PUMP CASING WELD #18	VT93366	
2RSS*P21A-W-19	PUMP CASING WELD #19	VT93366	
** ASME ITEM NUMBER / EXAM CATEGORY: D01.020 D-A			
* ISOMETRIC: CHSTK21 2CHS*T21A-W-4	INTEGRAL SUPPORT ATTACHMENT - "W4"	VT93328	
2CHS*T21A-W-5	INTEGRAL SUPPORT ATTACHMENT - "W5"	VT93328	
* ISOMETRIC: 520155 2MSS-933-F5C	WELDED ATTACHMENT FOR PSA499	VT93461	
** ASME ITEM NUMBER / EXAM CATEGORY: D02.020 D-B			
* ISOMETRIC: CCPTK21 2CCP*TK21A-W-1	INTEGRALLY WELDED ATTACHMENT W1	VT93327	
* ISOMETRIC: 101620 2FWE-16B-F-800	WELDED ATTACHMENT FOR 2FWE-PSA323X	VT93332	

DUQUESNE LIGHT COMPANY
BVPS UNIT II 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
* ISOMETRIC: 101613			
2SVS-029-F-800	WELDED ATTACHMENT FOR 2SVS-PSA237Y	VT93322	
2SVS-028-F-801	WELDED ATTACHMENT FOR 2SVS-PSR236Y	VT93322	
2SVS-028-F-802	WELDED ATTACHMENT FOR 2SVS-PSR236Y	VT93322	
2SVS-028-F-803	WELDED ATTACHMENT FOR 2SVS-PSR236Y	VT93322	
2SVS-028-F-804	WELDED ATTACHMENT FOR 2SVS-PSR236Y	VT93322	
2SVS-028-F-800	WELDED ATTACHMENT FOR 2SVS-PSA238Y	VT93322	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.020 F-A			
* ISOMETRIC: CHSFLT24			
2CHS*FLT24A-SUPP-24	STRUCTURAL SUPPORT	VT93339	
** ASME ITEM NUMBER / EXAM CATEGORY: F01.030 F-A			
* ISOMETRIC: CHSFLT24			
2CHS*FLT24A-SUPP-1	LEG SUPPORT NO. 1	VT93338	
2CHS*FLT24A-SUPP-2	LEG SUPPORT NO. 2	VT93338	
2CHS*FLT24A-SUPP-3	LEG SUPPORT NO. 3	VT93338	
2CHS*FLT24A-SUPP-4	LEG SUPPORT NO. 4	VT93338	
** ASME ITEM NUMBER / EXAM CATEGORY: F03.010 F-C			
* ISOMETRIC: 107103			
2RHS-PSST035A	SUPPORT	VT93367	
2RHS-PSST035B	SUPPORT	VT93367	
* ISOMETRIC: 101613			
2SVS-PSA237Y	SUPPORT	VT93322	
2SVS-PSA238Y	SUPPORT	VT93322	
** ASME ITEM NUMBER / EXAM CATEGORY: F03.020 F-C			
* ISOMETRIC: 110737			
2CHS-PSR024X	SUPPORT	VT93325	
* ISOMETRIC: 101620			
2FWE-PSA323X	SUPPORT	VT93331	
* ISOMETRIC: 101613			
2SVS-PSR235Y	SUPPORT	VT93322	
2SVS-PSR236Y	SUPPORT	VT93322	
* ISOMETRIC: 520155			
2MSS-PSA499	SUPPORT	VT93461	

DUQUESNE LIGHT COMPANY
BVPS UNIT 11 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
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** ASME ITEM NUMBER / EXAM CATEGORY: F03.050 F-C

* ISOMETRIC: 107120 2RHS-PSSH519X	SUPPORT	VT93323	
* ISOMETRIC: 100212 2MSS-PSSH006A	SUPPORT	VT93352	
2MSS-PSSH006B	SUPPORT	VT93352	
* ISOMETRIC: 107103 2RHS-PSSH037A	SUPPORT	VT93368	
2RHS-PSSH037B	SUPPORT	VT93368	

** ASME ITEM NUMBER / EXAM CATEGORY: R01.14

* ISOMETRIC: RCSP21 2RCS*P21C-FLYWHEEL	FLYWHEEL	UT93117	
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APPENDIX II
BASELINE EXAMS

APPENDIX II BASELINE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT II 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
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** ASME ITEM NUMBER / EXAM CATEGORY: 807.030 B-G-2

* ISOMETRIC: SG21

2RCS*SG21A-H-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT93365	BASELINE ON NUT & STUD
2RCS*SG21A-H-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT93365	BASELINE ON NUT
2RCS*SG21A-H-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT93365	BASELINE ON NUT
2RCS*SG21A-C-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT93365	BASELINE ON NUT & STUD
2RCS*SG21A-C-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT93365	BASELINE ON STUD
2RCS*SG21A-C-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT93365	BASELINE ON NUT & STUD

APPENDIX III
SUCCESSIVE AND
ADDITIONAL EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT II 1993 OUTAGE
4R NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
** ASME ITEM NUMBER / EXAM CATEGORY: B07.060 B-Q-2			
* ISOMETRIC: RCSP21			
2RCS*P21C(S)-B01	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B02	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B03	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B04	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B05	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B06	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B07	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B08	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B09	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B10	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B11	SEAL HOUSING BOLT	VT93342	
2RCS*P21C(S)-B12	SEAL HOUSING BOLT	VT93342	
** ASME ITEM NUMBER / EXAM CATEGORY: B09.040 B-J			
* ISOMETRIC: 107005			
2RCS-022-F502A	SOCKET WELD	PT93122	EXPANDED SCOPE DUE TO DR146.
* ISOMETRIC: 107010			
2RCS-042-F01	SOCKET WELD	PT93122	EXPANDED SCOPE DUE TO DR146.
* ISOMETRIC: 107015			
2RCS-062-F504	SOCKET WELD	PT93122	EXPANDED SCOPE DUE TO DR146.
** ASME ITEM NUMBER / EXAM CATEGORY: C02.021 C-B			
* ISOMETRIC: RHSE21			
2RHS*E21A-W-3	NOZZLE-TO-SHELL WELD # 3	UT93129	THIS WELD WAS EXAMINED IN 2R.
** ASME ITEM NUMBER / EXAM CATEGORY: F03.020 F-C			
* ISOMETRIC: 107419			
2CHS-PSST006A	SUPPORT	VT93355	INSULATION REMOVED 4R.
2CHS-PSST006B	SUPPORT	VT93355	SUCCESSIVE EXAM.
** ASME ITEM NUMBER / EXAM CATEGORY: F03.050 F-C			
* ISOMETRIC: 110235			
2RCS-PSSH001X	SUPPORT	VT9337U	SUCCESSIVE EXAM.
* ISOMETRIC: 101706			
2FWS-PSSH00B	SUPPORT	VT93369	SUCCESSIVE EXAM.

APPENDIX IV
4R DEFICIENCIES

APPENDIX IV 4R DEFICIENCIES

UNSAT SUMMARY
UNIT 2 4R

COMPONENT -----	REJECTING REPORT -----	DR NUMBER -----	DESCRIPTION -----	MWR NUMBER -----	CLOSING DOCUMENT -----
2RSS*E21A-WS-08C	PT93-114	143	PT INDICATION	23685	PT93-121
2RCS-042-F504A	PT93-116	146	PT INDICATION	23928	PT93-140

APPENDIX V
STEAM GENERATOR
EDDY CURRENT EXAMINATIONS

**STEAM GENERATOR
EDDY CURRENT EXAMINATIONS**

One hundred percent (100%) of the inservice tubes in each steam generator (2RCS*SG21A, *SG21B, *SG21C) were examined full length (tube end to tube end) with eddy current techniques utilizing differential and absolute frequencies approved by DLC.

Babcock & Wilcox Nuclear Service Company (BWNS) personnel were used as data acquisitioners and primary data analysts. An independent second party review of all eddy current data was performed 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, the EPRI Steam Generator Examination Guidelines (Rev. 3) and the Unit #2 Steam Generator Analysis Guidelines, ISIE1-8 (Rev. 2). All analysts were required to pass a site specific performance demonstration prior to analyzing eddy current data from the current outage.

Standard mag-bais .720" diameter bobbin coil probes were used as the primary eddy current examination technique. Smaller size bobbin probes (.700"; .680") 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 24 inches per second.

The following table summarizes the results of this examination:

	S/G "A"	S/G "B"	S/G "C"
NO. OF TUBES EXAMINED	3365	3369	3361
TUBES \geq 40% TW	0	2	0
TUBES \geq 20% TW TO 39% TW	4	12	6
TUBES < 20% TW	18	15	23

% TW = Percent Through Wall

A Motorized Rotating Pancake Coil (MRPC) probe was used to acquire data from all inservice Row 1 and 2 U-bend regions. The following table summarizes the results of this examination:

	S/G "A"	S/G "B"	S/G "C"
NO. OF U-BENDS EXAMINED	186	188	187
U-BENDS WITH INDICATIONS	0	1	0

STEAM GENERATOR
EDDY CURRENT EXAMINATIONS

One hundred percent (100%) of the Hot Leg Distorted Support Plate Signals (DSI's) that resulted from the bobbin coil examinations were further evaluated using the Zetec 3-coil RPC probe. No indications were confirmed during this examination. The following table summarizes the results of this examination:

	S/G "A"	S/G "B"	S/G "C"	TOTAL
NO. OF DSI'S EXAMINED	110	209	375	694
NO. OF DSI'S CONFIRMED	0	0	0	0

The 3-coil RPC probe was used on a 150 tube random sample of the hot leg tubesheet expansion transition region in each steam generator. No indications associated with the transition expansion were identified. However, several signals indicative of loose parts were observed during the bobbin coil examination in "B" generator. Forty-five (45) tubes were added to this (RPC) examination on the hot leg side of "B" generator. The following table summarizes the results of this examination:

	S/G "A"	S/G "B"	S/G "C"
NO. OF TUBES EXAMINED	150	195	150
TUBES WITH INDICATIONS	0	0	0

The 3-coil RPC probe and single coil U-bend probes were used on a group of tubes referred to as "special interest" tubes. This group represents ambiguous signals from the bobbin coil examination that due to the wide variation in location of the indications and type of indications, they were not able to be classified by standard three letter codes. The following table summarizes the results of this examination:

	S/G "A"	S/G "B"	S/G "C"
NO. OF LOCATIONS EXAMINED	116	123	77
TUBES WITH INDICATIONS	23	12	9

STEAM GENERATOR
EDDY CURRENT EXAMINATIONS

Six (6) Babcock & Wilcox (Inconel 600) rolled plugs in steam generator "C" cold leg were examined using a single coil RPC probe. Due to indications observed during the examination, all six plugs were removed. Replacement plugs were fabricated from I-690 material. The following table summarizes the results of this examination:

	S/G "A"	S/G "B"	S/G "C"
NO. OF PLUGS EXAMINED	0	0	6
PLUGS WITH INDICATIONS	0	0	2

Eighty-eight (88) tubes were plugged during this outage. The following table summarizes the results of the tube plugging:

	S/G "A"	S/G "B"	S/G "C"
INDICATIONS \geq 40% TW	0	2	0
SUPPORT PLATE INDICATIONS	0	1	6
FREE SPAN INDICATIONS	2	0	4
TUBESHEET INDICATIONS	4	2	5
U-BEND INDICATIONS	27	12	13
LOOSE PARTS	0	7	0
OBSTRUCTED	1	1	1
TOTAL TUBES PLUGGED	34	25	29

APPENDIX VI

NIS-2 FORMS

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 10-21-93
Name
ONE OXFORD CENTER, PGH, PA 15279 Sheet 1 of 6
Address Re 10-21-93

2. Plant BEAVER VALLEY POWER STATION Unit No. 2
Name
SHIPPINGPORT PA 15077 DGP-2001
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLC/STONE & WEBSTER Type Code Symbol Stamp NR
Name Authorization No. 6
245 SUMMER ST, BOSTON, MA Expiration Date 9/10 1994
Address

4. Identification of System CHARGING SYSTEM

5. (a) Applicable Construction Code ASME III 19 74 Edition, 574 Addenda, 1567, 1607 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 EDITION, SUMMER 83 ADDENDA

6. Identification of Components Required 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)
ZCHS+EZ1	ATLAS	3173	2551	PA 484991	1977	REPLACEMENT	YES

7. Description of Work RERATE DESIGN PRESSURE FOR TUBE SIDE FROM 150 TO 200 PSI

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 300 psi Test Temp. 80 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks ATTACHED NR-1 REPORT
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NR

Certificate Authorization No. 6 Expiration Date 9-10-94

Signature [Signature] Date OCT 21 1993
Owner or Owner's Designee, Title SUPERVISOR

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by ARK WRIGHT MUTUAL Ins. Co. of NORWOOD, Mass have inspected the components described in this Owner's Report during the period 9-17-93 to 10-22-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature [Signature] Commissions FACTORY MUTUAL ENG. ASSOC.
UB 5314 N.B.I. 02245
National Board, State, Province, and Endorsements

Date 10/22 1993

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 10-21-93
Name
ONE OXFORD CENTER, PGH, PA 15279 Sheet 2 of 6
Address
 2. Plant BEAVER VALLEY POWER STATION Unit NO. 2
Name
SHIPPINGPORT, PA 15077 DLP-2001
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DLC (NCD) Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System CHARGING SYSTEM
 5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, N/A Code Case
W72 Rev 10-21-93
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 EDITION, SUMMER 83 ADDENDA

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)
2-CHS-004-1A-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-003-110-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-750-588-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-003-111-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-003-108-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO

7. Description of Work RERATE DESIGN PRESSURE FROM 150 TO 200 PSI
 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 300 psi Test Temp. 80 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

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 NGAM 8.5 SECTION XI REPAIR/REPLACEMENT PROGRAM

Certificate of Authorization No. N/A Expiration Date NA

Signed Indolens Supervisor Date OCT 21, 19 93
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 Ins Co. of Norwood, Mass have inspected the components described in this Owner's Report during the period 9-17-93 to 10-22-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Deft Jones Commissions Factory Mutual Eng. Assoc. NA8314 A.N.I. PA 8245
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/22 19 93

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 CO. Date 10-21-93
Name
ONE OXFORD CENTER, PGH, PA 15279 Sheet 3 of 6
Address
 2. Plant BEAYER VALLEY POWER STATION Unit NO. 2
Name
SHIPPINGPORT PA 15077 DCP-2001
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DLC (NLD) Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System CHARGING SYSTEM

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 EDITION, SUMMER 83 ADDENDA

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)
2-CHS-750-465-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-003-109-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-002-113-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-003-107-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-750-516-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO

7. Description of Work RERATE DESIGN PRESSURE FROM 150 TO 200 PSI

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 300 psi Test Temp. 80 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp PER NGAM 6.5 SECTION XI REPAIR/REPLACEMENT PROGRAM

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

Signed J. J. [Signature] SUPERVISOR Date OCT 21 19 93
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 Massachusetts and employed by ARKWEIGHT MUTUAL Ins. Co. of Newton, Mass. have inspected the components described in this Owner's Report during the period 9-17-93 to 10-22-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions FACTORY MUTUAL Eng ASSOC. NB 2314 A N.I. PA 2245
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/22 19 93

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 CO. Date 10-21-93
Name
ONE OXFORD CENTER, PGM, PA 15279 Sheet 4 of 6
Address

2. Plant BEAVER VALLEY POWER STATION Unit No. 2
Name
SHIPPINGPORT, PA 15077 DCP-2001
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLC (NCD) Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A

4. Identification of System CHARGING SYSTEM

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 EDITION, SUMMER 83 ADDENDA

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)
2-CHS-750-344-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT NO	
2-CHS-750-283-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT NO	
2-CHS-750-343-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT NO	
2-CHS-750-342-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT NO	
2-CHS-750-367-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT NO	

7. Description of Work RERATE DESIGN PRESSURE FROM 150 TO 200 PSI

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 300 psi Test Temp. 80 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 5 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/A
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 NGAM 8.5 SECTION XI REPAIR/REPLACEMENT PROGRAM
Certificate of Authorization No. N/A Expiration Date N/A
Signed [Signature] Supervisor Date OCT 21 19 93
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 INS. CO. of Norwood, Mass have inspected the components described in this Owner's Report during the period 9-17-93 to 10-22-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions FACTORY MUTUAL ENG. ASSOC.
Inspector's Signature NB8314 ENL. 82245
National Board, State, Province, and Endorsements
Date 10/22 19 93

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 CO. Date 10-21-93
Name
ONE OXFORD CENTER, PGM, PA 15279 Sheet 5 of 6
Address
2. Plant BEAVER VALLEY POWER STATION Unit No. 2
Name
SHIPPINGPORT, PA 15077 DLP-2001
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLC (NCO) Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System CHARGING SYSTEM
5. (a) Applicable Construction Code ASME III, 1971 Edition, W72 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 83 EDITION, SUMMER 83 ADDENDA
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)
2-CHS-750-385-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-750-362-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-750-360-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-750-361-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO
2-CHS-003-106-2	N/A	N/A	N/A	PIPE	N/A	REPLACEMENT	NO

7. Description of Work RERATE DESIGN PRESSURE FROM 150 TO 200 PSI
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 300 psi Test Temp. 80 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A
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 NGAM B.5 SECTION XI REPAIR/REPLACEMENT PROGRAM

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

Signed [Signature] SUPERVISOR Date Oct 21 19 93
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by FACTORY MUTUAL INS Co of Newton, Mass have inspected the components described in this Owner's Report during the period 9-17-93 to 10-22-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions FACTORY MUTUAL ENG. Assoc. NB 8314 A.N.I. P00245
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/22 19 93

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

1. Owner DUGUESNE LIGHT CO. Date 10-21-93
Name
ONE OXFORD CENTER, P.O.H, PA 15279 Sheet 6 of 6
Address
 2. Plant BEAVER VALLEY POWER STATION Unit No. 2
Name
SHIPPINGPORT, PA 15077 DCP-2001
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by PLC (NCD) Type Code Symbol Stamp NIA
Name Authorization No. NIA
Address Expiration Date NIA
 4. Identification of System CHARGING SYSTEM

5. (a) Applicable Construction Code ASME III 19 71 Edition, W72 Addenda, NIA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83 EDITION, SUMMER 83 ADDENDA

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)
ZCHS-RV382B	CROSBY	N56900-00-0027	NIA	RELIEF VALVE	1993	REPLACE BIT	YES

7. Description of Work _____
 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 300 psi Test Temp. 80 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

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 NGAM 8.5 ASME SECTION XI REPAIR/REPLACEMENT PROGRAM

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

Signed [Signature] Date 10/21/93
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 ARMSTRONG MUTUAL Ins. Co. of Newport, Mass, have inspected the components described in this Owner's Report during the period 9-17-93 to 10-22-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions Factory Mutual Ins. Assoc. NB 5314 ANI 50225
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/22 19 93

**FORM NR-1 REPORT OF REPAIR MODIFICATION OR INSTALLATION OF REPLACEMENT(S)
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS**

1. Work performed by Stone & Webster Engineering Corp. Job No. 02695 1063
(name) (repair organization's P.O. no., job no., etc.)
245 Summer St., Boston, MA. 02210
(address)

2. Owner Duquesne Light Company
(name)
301 Grant St., 1 Oxford Centre, Pittsburg, PA. 15279
(address)

3. Name, address and identification of nuclear power plant Beaver Valley Nuclear Power Station - Unit 2
Shippingport, PA. 15077
(address)

4. System Chemical and Volume Control

5. a. Component repaired, modified or replaced Tubeside of seal water heat exchanger (2CHS-E21)
 b. Name of manufacturer: Atlas Industrial Manufacturing Company
 c. Identifying nos. 2172 2551 PA State No 484 991 1977
(Int'l. serial no.) (Nat'l. Id. No.) (jurisdictional no.) (other) (year built)
 d. Construction Code ASME Sect. III, 1974 S-1974 Class 2
(edition) (addenda) (Code Cases) (Code Class)

6. Section XI 1982 Summer 1983
(edition) (addenda) (Code Cases)

7. Applicable edition of ASME Code Section XI under which repairs, modifications, or replacements were made 1983 S-1983
(edition) (addenda) (Code Cases)

8. Applicable edition of Construction Code under which repairs, modifications, or replacements were made 1974 S-1974
(edition) (addenda) (Code Cases)

9. Design responsibilities Stone & Webster Engineering Corp.

10. Tests conducted: hydrostatic pneumatic design pressure pressure 300 psi. (Code Cases) _____

11. Description of work Pressure rate of tubeside from 150 psig to 200 psig
(use of additional sheets or sketches is acceptable if properly identified)

12. Remarks No physical modifications are required or performed.

CERTIFICATION 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. 6 to use the "NR" stamp expires 9-10 19 94

Date 10/12 19 93 Signed Stone & Webster Eng. Corp. Leonard R. Stotka Sr. Site G.A. Rep.
(repair organization) (authorized representative) (title)

CERTIFICATION OF INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors, and certificate of competency issue by the state or province of Pennsylvania and employed by Arthur Wright Murrin Ins. Co. of Beacon, PA have inspected the repair, modification or replacement described in this report on Oct 10 19 93 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 10/15 19 93 Signed [Signature] Commissions WB-5-14 PA 215
(Inspector) (Nat'l. Bd. No. (including endorsements) state or province and number)

DUQUESNE LIGHT COMPANY
 NUCLEAR GROUP
 ASME XI REPAIR/REPLACEMENT CHECKLIST

Description of Proposed Work:

Rerate Seal Water Heat Exchanger 2CHS*E21 (Tube side)
and a portion of The seal water return line.
Also increase the Relief Valve 2CHS*RV382B setpoint.

ASME III 71 W12 Piping Code case 1567, 1607
 Design Code ASME III 74 574 Heat Exchanger Test/Modification Code ASME XI 83 583

Design Conditions (attach additional sheets as necessary):

Line/Component Number	Code Class	Size (in)	Design Pressure (PSIG)	Design Temperature (Degrees F)
<u>2CHS*E21</u>	<u>2</u>	<u>N/A</u>	<u>200</u>	<u>250</u>
<u>2CHS*RV382B</u>	<u>2</u>	<u>2x3</u>	<u>190 (setpoint)</u>	<u>250</u>
<u>See Attached sheet for line numbers</u>			<u>200</u>	<u>250</u>

Working Fluid: water

Design Code Tests and Inspections: Hydro; In-service (functional) leak test, UT of Heat Exchanger

Suitability of Repair/Replacement Review: All piping is capable of the new design pressure. The Heat exchanger requires reanalysis to rerate, this is being accomplished by an N.3 stamp holder

IWA, IWP, IWV Tests Affected? X YES NO; Lists Tests The Relief

Valve is in The IST program and system is periodically
in-service leak tested

ANII Notification Requirements:

Inspector Notified: [Signature] Date 8-18-93 Time 11:30 AM

ANII Holdpoints Identified: X Yes None Required

Holdpoints: Heat Exchanger Hydro and The attaching
of The new name plate to The heat exchanger

Copy of Work Document Forwarded to ANII: Date 8/18/93

Completed By: [Signature] Date 8/18/93

ISI and Augmented Inspection Requirements: In-service leak test

Pressure Test Requirements:

Pressure Tests Required? X Yes No

Pressure 300 PSIG + See Note PSI - 0

Temperature ≤ 100 F

Test Fluid water

Note: 300psi is 1.5 times the
200 psi design it is being
referenced to EL 749 The
nearest foot above The Heat
Exchanger with a plus (+) 6%
Tolerance

ISI Portion Completed By: [Signature] Date 8/18/93

Suitability of Repair/Replacement Weld Procedure Review:

W/A

Completed By: [Signature] Date 8/18/93

AFFECTS TAG NO.

M. J. Jones 7/19/85
Project mgr.

ATOMIC POWER DIVISION

E. M. Retzky 7/19/85
Valve Eng.

SPECIFICATION SHEET

VALVE TAG NOS.

2RV72JWE

AUXILIARY RELIEF VALVES

M. J. Jones 7/19/85
Valve Eng. mgr.

P. A. Pailla 7/19/85
Systems Engr'g. mgr.

J. W. Arch 7/19/85
Product Assurance

E - SPEC. NO. 678837

SPEC. SHEET NO. 66 OF 66

1	TAG NUMBER	2RV72JWE	
2	LINE NUMBER		
GENERAL			
3	SEAT TYPE		
4	DESIGN TYPE		
5	BONNET		
BODY			
6	MATERIAL	SS	
7	SIZE INLET	2	3
8	END CONNECTION TYPE		
9	ORIFICE DESIGNATION		
10			
TRIM MATERIAL			
11	SEAT & DISC.	**	
12	GUIDE & RING(S)	**	
13	SPRING		
14			
ACCESSORIES			
15	CAP & NO LEVER		
16	LEVER PLAIN	PACKED	No No
17	GAG	**	
18	BALANCED BELLOWS	Yes	
19	OTHERS		
BASIS OF SELECTION			
20	CODE	Sec III, ASME B&PV	CLASS 2
21	OTHER		
SERVICE CONDITIONS			
22	FLUID	RADIOACTIVITY	H ₂ O Yes
23	REQUIRED CAPACITY & UNITS	GPM	180
24	MOL. WT. OR SP. GR. @ F.T.		
25	VISCOSITY @ F.T.		
26	PRESS. PSIG. NORM.	RELIEVING	40 (150x190) ***
27	TEMP. °F	NORM. RELIEVING	150 (150x250) ***
28	CONSTANT BACK PRESSURE	PSIG	15
29	DEVELOPED BACK PRESSURE	PSIG	75
30	SPRING SET PRESSURE	PSIG	(140x190) ***
31	OVERPRESSURE - %	10	
32			
33			
ORIFICE AREA			
34	CALCULATED	SO. INS.	
35	SELECTED	SO. INS.	
36	MANUFACTURER		
37	MFG'S ASS'Y DWG. NO.		
38	WESTINGHOUSE OUTLINE DWG. NO.		
39			
40			
41	SPECIAL REQUIREMENTS		
42	Location	8123	



Francis W. Gardner
8/14/93

NOTES:

Centrifugal Chg. Pump Seal Water Return Line to VCT - Location 8123.
Design Input Source: CC. 10835
Was specification sheet 15

*** Design pressure increased 50psi per
Design change DCP2001

* INDICATES DATA TO BE FURNISHED BY SUPPLIER WITH QUOTATION
** PER SPEC

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 10-21-93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1
Address
2. Plant Beaver Valley Power Station Unit BVPS Unit 2
Name
Shippingport, PA 15077 DCP 2032
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Duquesne Light Company (DLCo) Type Code Symbol Stamp Not Applicable
Name Authorization No. Not Applicable
Shippingport, PA 15077 Expiration Date Not Applicable
Address
4. Identification of System Steam Generator Blowdown
ASME
5. (a) Applicable Construction Code Section III 1971 Edition, Winter 1972 Addenda, None Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983 Edition Summer 1983 Addenda
6. Identification of Component: 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)
2"-BDG-002-017-2		N/A	N/A	Steam Generator Blowdown Line N/A		Replacement/Modification No	

7. Description of Work Retrace part of the Blowdown Line at the "B" Steam Generator.
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 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 The data written in Items 1 through 9
inclusive has been prepared by OLC Nuclear
Engineering Department.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Tom Basich Senior Engineer Date 10-21-93 19 93
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 ACKACHT Mutual Ins Co of Warminster, Mass have inspected the components described in this Owner's Report during the period 9-14-93 to 10-21-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions FACTORY MUTUAL G.C. ASSOC. NBBP/PA/MASS 02245
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/22 19 93

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 2/4/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 1 of 5
Name
Shippingport, PA 15077 Unit No. 2
Address MWR 2392 P.O. D109159 (MWR 10801)
Repair Organization P.O. No., Job No. etc.

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

4. Identification of System Service Water System

5. (a) Applicable Construction Code ASME III 19 71 Edition Winter 1972 Addenda N-146-1 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)
	Byron Jackson						
2SWS-P21B	Pump Div.	731-N-0028			1982	Repaired	YES
--	BW/IP Int. Pump Div.	217883		Bowl Assembly	1991	Replacement	Yes

7. Description of Work Replaced bowl assembly replaced bolting, rerated pump to a higher design pressure (150 psig)

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 Pump bowl assembly was replaced; pump columns, discharge head and
stuffing box were repaired and hydrotested (part of pump rerate to
150 psig design pressure); all pressure boundary bolting was replaced.

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. Applicable Manufacturer's Data Reports to be attached
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. 7 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 this Owner's Report during the period 6-1-92 to 2-8-94 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 2224
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-8 19 94

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 BYRON JACKSON PUMP DIV. 2300 E. VERNON AVE. VERNON CALIF. 90058
(Name and Address of N Certificate Holder)

2. Manufactured for STONE AND WEBSTER ENG. CORP. BOSTON MASS. 02107
(Name and Address of Purchaser or Owner)

3. Location of Installation BEAVER VALLEY POWER STATION, PITTSBURGH, PENNSYLVANIA
(Name and Address)

4. Pump or Valve PUMP Nominal Inlet Size N/A (inch) Outlet Size 24 (inch)

	(a) Model 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)	36RXM	731-N-0028	N/A	1F-7511	3	N/A	1982
(2)	2 STG. VCT			REV-D			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. SERVICE WATER PUMPS FOR COMPONENT/SYSTEM COOLING
(Brief description of service for which equipment was designed)

6. Design Conditions 130 psi 100 °F or Valve Pressure Class N/A (1)

7. Cold Working Pressure N/A psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
	SA-216 GR-WCB		R/S 154432
TOP CASE	SA-216 GR-WCB		R/S 162883
SPRUE CASE	SA-216 GR-WCB		R/S 156977
SUCTION BELL	SA-216 GR-WCB		R/S 161194A
STUFF. BOX	SA-216 GR-WCB		
(b) Forgings			
HALF COUPLING	SA-105 GR-2		R/S 48969

(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.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
STUDS	SA-193 GR. B7		RIS 115041
HEX. HD. CAP SCR.	SA-193 GR. B7		RIS 115037
HEX. NUT	SA-194 GR. 7		RIS 97736
(d) Other Parts			
COX. FLANGE	SA-515 GR. 70		RIS 47948
ELBOW PIPE	SA-515 GR. 70		RIS 158897
THROTTLE SUPPORT	SA-515 GR. 70		RIS 158690
SUPPORT PIPE	SA-106 GR. B		RIS 158895
UPPER FLANGE	SA-515 GR. 70		RIS 158641
LOWER FLANGE	SA-515 GR. 70		RIS 158641
COX. PIPE	SA-515 GR. 70		RIS 158868
COX. PIPE	SA-515 GR. 70		RIS 158878
COX. PIPE	SA-515 GR. 70		RIS 158877

9. Hydrostatic test 200 psi. Disk Differential test pressure N/A 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. N-146-1, Date 1 Oct, 1982.
 Signed BYRON JACKSON P. MP DIV. by [Signature]
 Our ASME Certificate of Authorization No. 1130 to use the N symbol expires 16 JUNE 1984.

CERTIFICATION OF DESIGN

Design information on file at BYRON JACKSON Pump Div.
 Stress analysis report (Class 1 only) on file at N/A
 Design specifications certified by (1) STEPHEN A. SHULMAN
 PE State PENNSYLVANIA Reg. No. PE-30264-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 CALIFORNIA and employed by ABB MFG. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the pump, or valve, described in this Data Report on 10-1- 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 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 10-1- 19 82
Mathew N. Constantine (Inspector) Commissions Calif-1408 Penn-WC 2457
 (Natl Bd., State, Prov. and No.)

* ARKWRIGHT-BOSTON MFG. MUTUAL INS. CO. (FACTORY MUTUAL SYSTEM)

CERTIFICATE OF AUTHORIZATION NO. 1130
 EXPIRES: 16 JUNE 1984
 BY: [Signature]
 (QA MGR. BU) DATED: 10/1/82

**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 BW/IP INTERNATIONAL INC., PUMP DIV., LOS ANGELES OPERATIONS
(name and address of NPT Certificate Holder)
2300 E. VERNON AVE., VERNON, CA. 90058

2. Manufactured for DUQUESNE LIGHT COMPANY
(name and address of Purchaser)
ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PA. 15279

3. Location of installation BEAVER VALLEY POWER STATION - UNIT 2, DUQUESNE LIGHT COMPANY
(name and address)
SOUTH BANK OF THE OHIO RIVER, SHIPPINGPORT, PA. 15077 25 MILES NW OF PITTSBURGH, PA.

4. Type: LO01171 REV. 0. SA-216 GR. WCB 70,000 PSI MIN. N/A 1991
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 1971 WINTER 1972 3 N/A
(edition) (addenda date) (class) (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(Incl.)

7. Remarks: BW/IP JOB NO: 901-W-0205 NOMENCLATURE: 32KXH 2-STAGE BOWL ASSEMBLY

8. Nom. thickness (in.) .625 Min. design thickness (in.) .433 Dia. ^{O.D.} 3'0" Length overall (ft & in.) 6'6.937"

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) 217883	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 150 psi Temp. 100 °F Hydro test pressure 225 PSI/34 when applicable

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

Certificate Holder's Serial Nos. 217883 through N/A

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1993

Date 9/26/91 Name BW/IP INTERNATIONAL INC. Signed [Signature]
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of NORWOOD, MASS. have inspected these items described in this Data Report on SEPT. 26, 1991, 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 9/26/91 Signed [Signature] Commissions 1275 CA, WC02380PA
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. and 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 Date _____
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 2 of 2

2. Plant Beaver Valley Power Station Unit No. BV-2
Name
Shippingport, PA 15077
Address DCP-1508
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCO - Type Code Symbol Stamp Not Applicable
Name Authorization No. _____
Shippingport, PA 15077 Expiration Date _____
Address

4. Identification of System Service Water

5. (a) Applicable Construction Code ASME III 19____ Edition, Summer 1979 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A (83 Edition, Summer 1983 Addenda)

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	Henry Vogt	3-21U788		2SWS-1227	1993	Replacement	Yes

7. Description of Work Service Water System Drain Line Valve

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 8 1/2 in. x 11 in., (2) information in items 1 through 8 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: Modification has been made by Duquesne Light Company

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 NGAM 8.5 ASME XI Repair/Replacement Program

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

Signed Samuel K. Malaga Date 10-26- 1993
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9-2-93 to 10-26-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Factory Mutual Systems

Inspector's Signature [Signature] Commissions NC 8364 P.V.I. - P 02245
National Board, State, Province, and Endorsements

Date October 26 19 93

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 _____
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address

2. Plant Beaver Valley Power Station Unit No. BV-2
Name
Shippingport, PA 15077 DCP-1508
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Type Code Symbol Stamp Not Applicable
Name Authorization No. _____
Shippingport, PA 15077 Expiration Date _____
Address

4. Identification of System Service Water

5. (a) Applicable Construction Code ASME III 19 71 Edition, Winter 1972 Addenda _____ Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-S'83A (83 Edition, Summer 1983 Addenda _____)

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)
Pipe	DLCo.	N/A	N/A	2-SWS-002-B31-3	1993	Replacement	Yes

7. Description of Work Service Water System Drain Link To Recirculation Spray Heat Exchangers

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Modification has been made by Duquesne Light Company.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

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

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

Signed Samuel K. Mulvey Date 10-26-1973
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 9-2-93 to 10-26-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Factory Mutual Systems

[Signature] Commissions NB 5314 and PA 2245
Inspector's Signature National Board, State, Province, and Endorsements

Date October 26, 1973

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 10-6-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 1

2. Plant Beaver Valley Power Station Unit No. 1
Name
Shippingport, PA 15077
Address MWR #911038
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DlCo - Maintenance Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address

4. Identification of System Residual Heat Removal

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 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)
RH-P-1A	Ingersoll - Rand	1170-20	--	Model NO. 8X20WD	--	Repaired	No
Stuffing Box Extension	Ingersoll - Rand	A1208	--	Heat NO. 1074	--	Replacement	No

7. Description of Work Replaced stuffing box extension due to leakage

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 *OST 1.10.1

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N/A
 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] Senior Eng. Date October 11 19 93
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 ^{2, 222 10/14/93} have inspected the components described in this Owner's Report during the period Oct 30, 1992 to Oct 14, 1993 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] 1282214 A.S.I. Inspector
Inspector's Signature National Board, State, Provincial, and Enactments

Date October 14 19 93

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 10-22-93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #021139
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. _____
Shippingport, PA 15077 Expiration Date _____
Address
4. Identification of System Service Water
5. (a) Applicable Construction Code Section III, 80 Edition, S'81 Addenda, -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 83E-G'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)
2SWS-TCV101A	Target Rock	1	--	2"-83C-019	1984	Repaired	Yes

7. Description of Work Tack welded body to bonnet
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure N/A
 Other Pressure _____ psi Test Temp. _____ °F
N/A

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N/A

Applicable Manufacturer's Data Reports to be 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] Date Oct 26 19 93
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 this Owner's Report during the period 6-21-93 to 10-26-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 168314 A.N.I. District
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct 26 19 93

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 10-25-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 1 of 1
Name
Shippingport, PA 15077
Address Unit No. 2
 MWR #017473
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Feedwater

5. (a) Applicable Construction Code --, 19 -- Edition, -- 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)
2FWS-PSSP006	Paul Munroe	1652	--	PMH2103-5A	--	Replaced	No
2FWS-PSSP006	Lisega	61254-108	--	3042RE1-SP	--	Replacement	No

7. Description of Work Replaced

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced snubber with a new design per TER 6724.
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] Senior Engr Date Nov. 12 19 93
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 this Owner's Report during the period 3/1/93 to 11/12/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Factory Mutual Engr. Assn.
Inspector's Signature Commissions NB314 ANI-P 2245
National Board, State, Province, and Endorsements

Date Nov 12 19 93

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 10-25-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 2. Plant Beaver Valley Power Station Sheet 1 of 1
Name
Shippingport, PA 15077 Unit No. 2
Address MWR #017472
Repair Organization P.O. No., Job No. etc
 3. Work Performed by DLCO - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address

4. Identification of System Feedwater

5. (a) Applicable Construction Code -- 19 -- Edition, -- Addenda, -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83A-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)
2FWS-PSSP005	Paul Munroe	1650	--	PMH2103-5A	--	Replaced	No
2FWS-PSSP005	Lisega	61254-109	--	3042RE1-SP	--	Replacement	No

7. Description of Work: Replaced snubber

8. Tests Conducted: Hydraulic 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced snubber with a new design per TER 6724

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] Senior Engr Date Nov. 12 19 93
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 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 11/11/93 to 11/12/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature [Signature] Commission No. 108314 A N.B. 2245
National Board, State, Province, and Endorsements

Date November 12 19 93

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 10-25-93
Sheet 1 of 1

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2
MWR #017469
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 Feedwater

5. (a) Applicable Construction Code _____ 19____ Edition, _____ 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)
2FWS-PSSP002B	Paul Munroe	1887	--	PMH2300-SA	--	Replaced	No
2FWS-PSSP002B	Liseqa	61265-15	--	3072RC1-SP	--	Replacement	No

7. Description of Work Replaced snubber

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced snubber with a new design per TER 6724

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] Senior Eng. Date November 12 19 93
Owner or Owner's Designer, 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 this Owner's Report during the period 7/1/93 to 11/12/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] *Factory Mutual Engr. Assn.
Inspector's Signature Commission NS8314 ANI 812215
National Board, State, Province, and Endorsements

Date October 12 19 93

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 10-25-93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #017466
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Feedwater

5. (a) Applicable Construction Code -- 19 -- Edition, -- Addenda, -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-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)
2FWS-PSSP002A	Paul Munroe	1684	--	PMH2300-5A	--	Replaced	No
2FWS-PSSP002A	Lisege	61265-14	--	3072RC1-SP	--	Replacement	No

7. Description of Work: Replaced snubber

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced snubber with a new design per TER 6724
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] Senior Eng. Date November 12 19 93
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 this Owner's Report during the period 3/1/93 to 11/12/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 UBR314 A.M.I. 012245
Inspector's Signature National Board, State, Province, and Endorsements

Date November 12 19 93

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 10-25-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 1

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #017467
Address Repair Organization P.O. No., Job No. etc.

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

4. Identification of System Feedwater

5. (a) Applicable Construction Code -- 19 -- Edition, -- 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)
2FWS-PSSP012	Paul-Munroe	1679	--	PMH2200-SA	--	Replaced	No
2FWS-PSSP012	Lisega	61256-26	--	3062RM1-SP	--	Replacement	No

7. Description of Work: Replaced snubber

8. Tests Conducted: Hydrostatic Pneumatic Normal 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced snubber with a new design per TER 6724.

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] Repair-Eng. Date October 29 19 93
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 Ev components described in this Owner's Report during the period 03-01-93 to 10-29-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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] Commission NB 5314 B.V.I. 10245
Inspector's Signature National Board, State, Province, and Endorsements

Date October 29 19 93

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 11-1-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #013455
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Service Water

5. (a) Applicable Construction Code Section III 1971 Edition W'72 Addenda See N-5 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2-SWM-003-003- 3	Power Piping	N-1316-82 -6744	--	SWM-3-3	1984	Replaced	Yes

7. Description of Work: Replaced Monel 400 spoolpiece with INconel 625

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 172 psi Test Temp. 75 °F

NOTE: Supplemental sheets in form of logs, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-5 Data Report attached, Material Change per TER #6902

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] Senior Eng. Date Nov. 6 19 93
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 this Owner's Report during the period 9/22/92 to 11/19/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Commission NSB311 AALL P2245
Inspector's Signature National Board, State, Province, and Department

Date 11/9 19 93

FORM 16-6 DATA REPORT FOR INSTALLATION OR SHOP ASSEMBLY OF NUCLEAR POWER
PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES

2-58-10-10-Sub-2

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

Sheet 1 of 10

- 1. Installed by Schneider Power Corp., 129 Seventh Street, Pittsburgh, PA 15201
(Name and address of manufacturer, contractor, supplier or subcontractor)
- 2. Installed for Duquesne Light Company, One Oxford Centre, 201 Grant St., Pittsburgh, PA 15279
(Name and address of purchaser or user)
- 3. If Certificate Holder having overall responsibility Stano & Webster Engineering Corporation
- 4. Location of Installation Power Valley Power Station Unit #2, Shippingport, PA 15877
- 5. System Identification 2-58-20-10-Sub-2 S/W S Reg. No. A/A Year Installed 1981

6. Number Components and Appurtenances Installed in the Field by Working Unit each year and other copies of all Certificate Holders' Data Reports and NPT Certificate Holders' Partial Data Reports

278702060019

(a) Components or Appurtenances	(b) Name of Certificate Holder	(c) Serial No.	(d) Condition Reg. No.	(e) Material Cat. 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) Condition Reg. No.	(e) Material Cat. No.	(f) Year Built
------------------------	--------------------------------	----------------	------------------------	-----------------------	----------------

SEE ATTACHMENT (2) "Shop Fabricated Large Bore Piping Subassemblies Installed"

SEE ATTACHMENT (3) "Field Installed Large Bore Piping Subassemblies Installed"

SEE ATTACHMENT (4) "Shop Fabricated Small Bore Piping Subassemblies Installed"

SEE ATTACHMENT (5) "Field Installed Small Bore Piping Subassemblies Installed"

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Class Load Class Size Class	(e) Condition Reg. No.	(f) Material Cat. No.	(g) Year Built
---------------------------	--------------------------------	----------------	--	------------------------	-----------------------	----------------

Component supports are shop-fabricated and are not effective until the "Additional Material Excluding Welding Material" for "Component Support Material" Attachment (6) is installed.

Additional Material Excluding Welding Material

(a) Name of Manufacturer	(b) Material Description	(c) Dimensions
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SEE ATTACHMENT (6) "Component Support Material Excluding Welding Material"

SEE ATTACHMENT (7) "Additional Material"

NOTE: The following shortened company names are used in this report:

SWC: Stano & Webster Eng. Corp.

SPC: Schneider Power Corp.

WBE & I Co.: Hartford Steam Boiler Inspection & Insurance Co.

PPC: Power Piping Co.

7. (a) Installation in Accordance with:

Procedure or Drawing No. SEE ATTACHMENT (8) "Welding Procedures & Specifications"

SEE ATTACHMENT (9) "Procedures & Specifications"

(b) Description of Installation Performance

SEE ATTACHMENT (10) "Description of Installation Performance"

(a) Hydrostatic Test 1 (b) System Working Pressure 1 (c) Test Temp. 1

* Supplemental charts in form of log, sketches, or drawings may be used provided the size is 8 1/2" x 11" or larger. The information in these charts is on the same scale as the drawings on which they are based and the scale of these charts is indicated at the top of the form. PAGE 5807 2 of 5

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information in this report is the property of Stone & Webster Engineering Corporation, 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) A. J. Florento PE State Pennsylvania
 Reg. No. 032366E
 Design Report certified by (1) A stress report is not required for Class 2 or 3 piping systems. Reg. No. N/A
 (1) Signature not required List name only
 Design Conditions of Piping Pressure 0 ps Temperature 0 F
 SEE ATTACHMENT (11) "System Working & Design, Pressure Temperature & Hydrostatic/ Pneumatic Tests."

CERTIFICATE OF INSTALLATION COMPLIANCE

We certify that the statements made in this report are correct and that the installation conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, 1971 Edition
 Addenda Date 11/28/77 Code Case No. Class 2 and was performed in accordance with the documents listed in this report
 Our ASME Certificate of Authorization No. B-1824-1 is valid for the State of Pennsylvania
 Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities
 Date 1/9/78 Signed [Signature] Stone & Webster Engineering Corporation
 *SEE ATTACHMENT (12) "ASME Code Section III, Division 1, Addenda and Code Cases Issued"

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 NBEI & I Co., of Hartford, CT have inspected the installation of the piping described in this Data Report on 1-20-78 and state that, to the best of my knowledge and belief, the Certificate of Authorization Holder has performed the installation in accordance with the ASME Code for Nuclear Power Plant Components.
 By signing this certificate, neither the inspector nor his employer shall be deemed, 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 1-30-78 Signed [Signature] Commissioner PA 24114
 National Board, Pressure Vessels and Co.

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system shall complete the following statement Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.
 We certify the statements made by the 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 9-18-78 Certificate of Authorization No. B-1824-2
 Date 1/11/78 Signed Standalister Engr. by [Signature]

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by NBEI & I Co., of Hartford, Connecticut have inspected the piping described in this Data Report on 1-11-78 and state that, to the best of my knowledge and belief, the Certificate of Authorization Holder has performed the installation in accordance with the ASME Code for Nuclear Power Plant Components.
 By signing this certificate, neither the inspector nor his employer shall be deemed, 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 1-11-78 Signed [Signature] Commissioner PA 24114
 National Board, Pressure Vessels and Co.

MS DATA REPORT
ATTACHMENT 2

PKY-20-10-100-2
Sheet 6 of 16

1. INSTALLED BY: Schmitt Power Corp., 128 Monroe Square, Pottsville, PA 17882
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15270
3. IN CERTIFICATE HOLDER HAVING OVERALL RESPONSIBILITY: Stone & Webster Engineering Corp.
4. LOCATION OF INSTALLATION: Beaver Valley Power Station, Unit 2, Shippingport, PA 15877
5. SYSTEM IDENTIFICATION: Service Water System (SW) 1-2-10-100-2, YEAR INSTALLED 1987

Continued from Sheet 1

SWP FABRICATED LARGE BORE PIPING SUBASSEMBLIES INSTALLED

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Piping Subassembly	Name of Certificate Holder	Serial No.	Condition Rep. No.	Material Mat. No.	Year Built	Remarks
1	SWP-3-2	Power Piping Co.	W-1143-3974	N/A	N/A	1987	158770
2	SWP-3-3	Power Piping Co.	W-1316-82-6746	N/A	N/A	1987	158770

NEED FURTHER INVESTIGATION

Continued on Sheet 11
 Date 10/11/87
 Prepared by [Signature]
 Checked by [Signature]
 Approved by [Signature]

N-5 DATA REPORT
ATTACHMENT 8

1. INSTALLED BY: Schnelder Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of Parts, Components, and Sub-Assemblies)
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET
PITTSBURGH, PENNSYLVANIA 15270
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) - 88-30-10-SVK-2 YEAR INSTALLED 1988

Continued from Sheet 1

PROCEDURES & SPECIFICATIONS

Procedures and Specifications

Prepared By

ZBVS-920 REVISION 11 ADDENDUM 3

SWEC

ZBVS-939 REVISION 8 ADDENDUM 5

SWEC

EPC NUCLEAR SITE Q.A. MANUAL WITH BV2 ADDENDUM

EPC

SWEC COMPANY QUALITY ASSURANCE AND CONTROL MANUAL,
ASME, SECTION III, DIVISION 1, WITH 21/BV APPENDIX

SWEC

NO FURTHER ENTRIES

The following specifications have been updated to incorporate the stress reconciled as-installed isometrics, N-5 boundary diagram, and P&IDs and R&Ds that are applicable to this N-5 package. These specification changes do not affect the ASME III Fabrication/Installation within the boundaries of this N-5 package

- ZBVS 920, Revision 11, Addendum 4
- BVS 939, Revision 8 Addendum 11

day 2 1-BT SWEC

Continued on Sheet N/A

Date <u>1/20/88</u>	<u>Schnelder Power Corp.</u>	Signature <u>[Handwritten]</u>
Date <u>1-20-88</u>	<u>[Handwritten]</u>	Committee <u>[Handwritten]</u>
Date <u>1/18/88</u>	<u>Stone & Webster Eng. Corp.</u>	Signature <u>[Handwritten]</u>
Date <u>1/18/88</u>	<u>[Handwritten]</u>	Committee <u>[Handwritten]</u>

N-5 DATA REPORT
ATTACHMENT 10

2-88-30-10-SM-2

Sheet 8 of 10

1. INSTALLED BY Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
2. INSTALLED FOR DUCQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRAVIT 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, Shipping, PA 150
6. SYSTEM IDENTIFICATION Service Water System (SWS) 2-88-30-10-SM-2 YEAR INSTALLED 1987

DESCRIPTION OF INSTALLATION PERFORMED

Continued from Sheet 1

Drawing No. and Rev.
120727-1P

Prepared By
PPC & SPC

Drawing No. and Rev.

Prepared By

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.

day 21-87 SWFC

Continued on Sheet N/A

Date <u>12/2/87</u>	VERIFIED FOR CODE COR.	By <u>[Signature]</u>
Date <u>1-16-88</u>	Checked	By <u>[Signature]</u>
Date <u>1/16/88</u>	Checked & Approved For Code	By <u>[Signature]</u>
Date <u>1-16-88</u>	Checked & Approved For Code	By <u>[Signature]</u>

**N-6 DATA REPORT
ATTACHMENT 11**

2 - R-10-10-54M-2

Sheet 11 of 11

1. INSTALLED BY Schoelder Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of Parts, Components, and Equipment)
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, State Street, PA 15222
5. SYSTEM IDENTIFICATION Service Water System (SWM) 2-58-30-10-SWM-2 YEAR INSTALLED
(Full Serial No.)

Continued from Sheet 10

SYSTEM WORKING & DESIGN, PRESSURE, TEMPERATURE, & HYDROSTATIC/PNEUMATIC TESTS

- (A) System Working Pressure and Temperature
- | | | | | |
|-----|------------|----------------------|------------|-----------|
| (1) | <u>N/A</u> | <u>PSIG and TEMP</u> | <u>N/A</u> | <u>OF</u> |
| (2) | <u>N/A</u> | <u>PSIG and TEMP</u> | <u>N/A</u> | <u>OF</u> |
| (3) | <u>N/A</u> | <u>PSIG and TEMP</u> | <u>N/A</u> | <u>OF</u> |
- ***NO FURTHER ENTRIES***
- (B) System Design Pressure and Temperature
- | | | | | |
|-----|------------|----------------------|------------|-----------|
| (1) | <u>150</u> | <u>PSIG and TEMP</u> | <u>00</u> | <u>OF</u> |
| (2) | <u>180</u> | <u>PSIG and TEMP</u> | <u>00</u> | <u>OF</u> |
| (3) | <u>N/A</u> | <u>PSIG and TEMP</u> | <u>N/A</u> | <u>OF</u> |
- ***NO FURTHER ENTRIES***

(C) Hydrostatic Test(s)/Pneumatic Test(s)

SWPEC as the N Certificate Holder accepting overall Code responsibility and subcontracting installation to appropriate NA Certificate Holder's at Beaver Valley Unit 2, retains Code responsibility for pressure testing and delegates performance of the pressure test to the NA Certificate Holder for item's they install.

Test No.	Test Pressure	System Working Pressure & Temp.	System Design Pressure** & Temperature	Test No.	Test Pressure	System Working Pressure & Temp.	System Design Pressure** & Temperature
6233A	180 SIC+9 -0	N/A	150PSIG/ 86°F				
6510A	125 SIC+11 -0	N/A	180PSIG/ 86°F				
NO FURTHER ENTRIES							
6495A	188+9 -0	N/A	150PSIG/ 86°F				

Handwritten notes:
 2-2-87
 2-5-87
 2-5-87
 2-5-87
 2-5-87
 2-5-87

**In cases where the Manufacturer's Data Reports attached hereto (NPP-1 or N-2) indicate different design conditions, the conditions stated above are valid and supersede the conditions stated on the Manufacturer's Data Reports.

Continued on Sheet N/A Date 1-7-87 Schoelder Power Corp. Sign [Signature]
 Date 1-7-87 [Signature] Commission [Signature]
 Date 1-7-87 Stone & Webster Eng. Corp. Sign [Signature]
 Date 1-7-87 [Signature] Commission [Signature]

FORM NPP-1 DATA SHEET FOR FABRICATED NUCLEAR PIPING SUBASSEMBLY

As Required by the Provisions of the ASME Code Rules Section III, Div. 1 N-1316-92-1174a

1 Fabricated by Power Piping Company, Denver, PA 15022 Order No. W-1316-82

Name and Address of NPT Certificate Holder:

2 Fabricated for Power Valley Power Station, Unit #2 Order No. 28V-88, J.O. No. 12344

Name and Address:

3 Owner Dugessane Light Company, Pittsburgh, PA 4. Location of Plant Shippensburg Borough, PA

5 Piping System Identification Service Water - Marine Growth Control MK 5101-3-3/1007-003-81A

(Special identification to be included with each subassembly) ISO 150727

6 Drawing No. EMEC LETTER dated 1/27/84 Prepared by Scott & Webster Engineering Corp., Boston, Massachusetts

7 ASME National Board No. N/A

8 The material, design, construction, and workmanship complies with ASME Code Section III, Class 3 Edition 1971, Addenda None, Code No. N/A

Remarks: Certificate Holder's Data Reports properly identified and signed by Certified Inspectors have been furnished for the following items of this report:

Items of Part - None

9 Shop Production Test By P1014

10 Description of piping subassembly - main no. - material spec. - main size - schedule or thickness - length - diameter

- 1 Pc. - 3" XL-84g. (.600" H.V.) S&W. Metal Pipe Machine from ASME SS-100 Spec. L.C. No. P-1975, Kt. ID 99888, Lgh. = 2'-6" Lg.
- 1 - 3" 3000 F.S. S/O Flg., SA 105, Item #8, L.C. No. N-8319, Kt. ID 99888
- 1 - 3" X 9" O.D. 1500 F.S. S/O Red. Flg. S/V, SA 105, Item #13, L.C. No. N-8319, Kt. ID 811375

NOTE: Welding Electrode L.C. No. E-101

We certify that the subassembly described in this report was fabricated and tested in accordance with the provisions of ASME Code Section III, Div. 1, and that the fabrication of the described piping complies with the requirements of ASME Code Section III, Div. 1, and that the subassembly is suitable for service in the nuclear power plant.

Date 10/2/84 Power Piping Company Alvin E. Hertz

Signature of Approving Inspector [Signature] Certificate of Compliance No. [Number]

CERTIFICATE OF COMPLIANCE

I, the undersigned, holding a valid certificate issued by the National Board of Boiler and Pressure Vessel Inspectors, hereby certify that the piping described in this report was fabricated and tested in accordance with the provisions of ASME Code Section III, Div. 1, and that the subassembly is suitable for service in the nuclear power plant.

By signing this certificate, either the Inspector or the Certificate Holder certifies that the piping is suitable for service in the nuclear power plant.

Signature: [Signature] Date: 10/2/84



POWER PIPING COMPANY

P O BOX 11

DONORA, PA. 15033

TELEPHONE
AREA CODE 412
28-8767

CORRECTED COPY

SLIP SHEET FOR NFP-1 DATA REPORT

Fabricated by POWER PIPING COMPANY, Donora Industrial Park, Donora, PA 15033

Fabricated for Duquesne Light Company, Pittsburgh, PA
Order No. 28V-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 28V-58, materials have been prepared 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 Report or Certificate of Compliance furnished with the material as indicated on the Data Reports. Stone & Webster Engineering Corporation is responsible for updating the applicable NFP-1 Data Reports to reflect this supplemental sheet. Stone & Webster Company Certificate of Authorization number N-1623, expires January 7, 1987.

Drawing No.	Serial No.	Mark No.	Year Made
1307-004-150	N-1141-3000	28V-4-1	1981
1377-004-215	**N-1316-02-4748	28V-4-0	1984
1016-120-01	N-1141-4118	28V-150-1	1979
1307-003-180	N-1141-3000	28V-3-1	1981
1307-003-214	**N-1316-02-4744	28V-3-3	1984
**1019-056-145	N-1141-5111	28V-66-0	1980
**1307-003-181	N-1141-3074	28V-3-2	1981
**1377-004-198	N-1141-3075	28V-4-2	1981

*Corrected serial number prefix from N-1141 to N-1316-02

**Added serial numbers 28V-66-0, 28V-3-2, 28V-4-2

January 12, 1987

Quo Rilla
PFCO QA Representative

Paul Beland
Authorized Nuclear Inspector

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 11-1-93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address
 2. Plant Beaver Valley Power Station Unit No. 2
Name Shippingport, PA 15077 MWR #023754
Address Repair Organization P.O. No., Job No., etc
 3. Work Performed by DlCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Shippingport, PA 15077 Authorization No. "
Address Expiration Date "

4. Identification of System Component Cooling - Primary
 5. (a) Applicable Construction Code Section III 19 71 Edition, S'73 Addenda, -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is P-2-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)
2CCP-291	Dresser	H504 AAE	--	2" 7440W-1-XNC009	1978	Repaired	Yes

7. Description of Work Seal welded valve body to bonnet after routine maintenance

8. Tests Conducted: Hydraulic Pneumatic Nominal Operating Pressure 150 psi
 Other Pressure 150 psi Test Temp. 60 °F
 *2BVT 1.60.6

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 NPV-1 form 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 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 Nov. 18 19 93
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 this Owner's Report during the period 10/4/93 to 11/19/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 UB 8314 ANI P 2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 19 1993

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 11-1-93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #023752
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Component Cooling - Primary

5. (a) Applicable Construction Code Section III 19 71 Edition S'73 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)
2CCP-289	Dresser	H505 AAE	--	2" 7440W-1 -XNC009	1978	Repaired	Yes

7. Description of Work Seal welded valve body to bonnet after routine maintenance

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

* 2BVT 1.60.6

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 NPV-1 form 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 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 Herman White Senior Engr. Date Nov 18 19 93
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 this Owner's Report during the period 10/4/93 to 11/19/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] *Factory Mutual Engr. Assn.
Inspector's Signature Commission AB 8314 ANI P2215
National Board, State, Province, and Endorsements

Date Nov 19 19 93

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 11-1-93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #024140
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Chemical and Volume Control

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)
2CHS-475	Atwood-Morrill	13-13540	--	2 1/2" Check Valve	1980	Repaired	Yes

7. Description of Work Replaced valve disc with a modified design

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____
 *2BVT 1.47.11

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced disc per TER #7046 NPV-1 form 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] Service Eng. Date Nov. 18 19 93
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 this Owner's Report during the period 10/17/93 to 11/19/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 108314 AMI H2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov 19 19 93

SERIAL NO: 13-13540

MARK NO:

TYPE:

COMMENTS:

2BV-020

FORM NPV-1 IN 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 St., Salem, MA 01970
(Name and Address of Certificate Holder)
2. Manufactured for Stone & Webster Engineering Corp., Boston, MA (For Duquesne Light)
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Power Station, Shippingport, PA
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 2 1/2 Inches Outlet Size 2 1/2 Inches

(1) Serial No. or Type	(2) Serial No.	(3) Canadian Registration No.	(4) Drawing No.	(5) Class	(6) Inlet Size	(7) Year Built
(1) 2 1/2" Check Valve	13-13540	N/A	13540-05-M Rev. 8	2	N/A	1980

(8) a Revised to update drawing rev. level
Original NPV-1 form signed by H. Evans on 6/27/80

RECEIVED

APR 23 1984

Stone & Webster
Engineering Corporation
Document Number

5. 2 1/2" Check Valve
(Brief description of service for which equipment was designed)

6. Design Conditions 2735 psi 280 Temperature °F or Valve Pressure Class N/A (1)

7. Cold Working Process 3620 psi at 187°F.

8. Pressure Retaining Pieces

Ident. No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body AT&M 21875 JCLP 0604-015	SA 351 Gr. CF8M	Duckler Alloy	S/N 13-13540 Duquesne Light Co. Beaver Valley Unit 2 P.O. No. 2BV-20 Misc. Check Valves 2 1/2" and Larger Manufactured By Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970
(b) Forgings			
Cover Wt. # 17717	SA 387 Gr. F-316	Conn & Saul	S/N 13-13540
Load Rev Wt. # 18742	SA-56A	Conn & Saul	S/N 13-13540

(9) For constantly operated valves only.

*Supplemental information to the form of data, drawings, or drawings may be used provided (1) data is not in conflict with the information on Form 1, (2) such data is not in conflict with the information on the number of items recorded on the top of this form, and (3) each additional sheet shall be signed by the Certificate Holder and the ASME.

This form (220002) may be obtained from the Order Dept., ASME, 310 E. 43rd St., New York, N.Y. 10017

FORM NPV-1 (Rev. 1)

Mark No.	Material Spec. No.	Manufacturer	Remarks
In Bolt Brg. Cover Studs	SA 193 Gr. B8	Jos. Dyson & Sons	Code J58
Brg. Cover Nuts	SA 194 Gr. B	Jos. Dyson & Sons	Code J61
Other Parts			
Stuff. Box Cover Ht. # 625179	SA 240 Gr. 316	Sandover Steel (MS) Crucible Steel (MI)	S/W 13A-13540 S/W 13B-13540
Disc Ht. # 79183	SA 479 Gr. 316	Industrial Service Center (MS) Joslyn Stainless (MI)	S/W 13-13540
Disc Lugs (2) Ht. # 79183	SA 479 Gr. 316	Industrial Service Center (MS) Joslyn Stainless (MI)	S/W 13A-13540 S/W 13A-13540

Hydraulic test 5500 psi. Disk Differential test pressure 3650 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.

Address: Summer 1974, Code Case No. N/A, Date N/A

Designed by Arthur W. Ellor Inc. by John M. Conroy on 6/13/06

Our ASME Certificate of Authorization No. N-2606 to use the MS symbol expires 6/13/06

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster

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

Design specification certified by (1) Arthur W. Ellor

PE State PA Reg. No. 616-K

Stress analysis certified by (1) N/A

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

(1) Signatures not required. List name only.

RECEIVED
APR 25 2004
 Stone & Webster
 Engineering Corporation
 Document Number

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.R.I. & I. Co. of Hartford, CT. have inspected the pump, or valve, described in this Data Report on 6-27 at SC, and state that to the best of my knowledge and belief, the H. Carlin Hobbes 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 held in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-28 H. W. B. Y.
Inspector Commission MA128 9C3814
State of Mass. Reg. No. and Exp. Date

①

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 11-2-93
Sheet 1 of 7

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2
MWR # 021576, 022662
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

5. (a) Applicable Construction Code Section III, 74 Edition, W'75 Addenda, -- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
2SWS-EJM221A	Pathways Bellows	07-3213-N2-1465	--	30" Metal Expansion Jt.	1980	Replaced	Yes
2SWS-EJM221A	Senior Flexonics	J3294	--	30" Metal Expansion Jt.	1993	Replacement	No

7. Description of Work Replaced expansion joint

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 230 psi Test Temp. 75 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Metal expansion joint S/N D7-3213-N2-1466 was removed from the 2SWS-EJM221B location, refurbished by Senior Flexonics under MWR #022662, and reinstalled at the 2SWS-EJM221A location. N-5 with N-2 data reports attached for Pathways only.

CERTIFICATE OF COMPLIANCE

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

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

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

Signed [Signature] Senior Eng. Date November 9 19 93

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State 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 7-11-93 to 12-15-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] *Factory Mutual Engr. Assn. Commission #B5314 ANI P... National Board, State, Province, and Inspectors

Date December 15 19 93

PLANT COMPONENTS, EQUIPMENT INVENTORIES, AND APPURTENANCES

2-28-78-10-20-3

As Required by the Provisions of the Atomic Energy Act, Section 11, Division 1 Sheet 1 of 3

1. Installed by Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
2. Installed for Progress Light Company, One Federal Centre, 201 Grant St., Pittsburgh, PA 15279
3. N Certificate Holder having overall responsibility Steen & Webster Engineering Corporation
4. Location of installation ATTY Boiler Power Station Unit #2, Shippensburg, PA 15277
5. System Identification # 10-20-3 N/A ATTY #1 Unit's Id. No. N/A Year Installed 1967

6. Nuclear Components and Apparatuses installed in the Field by Welding List each item and attach copies of N Certificate Holder's Data Reports and NPT Certificate Holder's Partial Data Reports

E787009 001

Component, or Apparatus	Id Name of Certificate Holder	Id State No.	Id Canadian Reg. No.	Id National Id. No.	Id Year Built
See attached sheet 3 of 3 for Partial N-6 Data Reports					
See attached sheet 3 of 3 for Partial N-6 Data Reports					

Piping System Installation

Id Piping Subassembly	Id Name of Certificate Holder	Id State No.	Id Canadian Reg. No.	Id National Id. No.	Id Year Built
See attached sheet 3 of 3 for Partial N-6 Data Reports					
See attached sheet 3 of 3 for Partial N-6 Data Reports					

Component Support Installation

Id Component Support No.	Id Name of Certificate Holder	Id State No.	Id Design Code, Load/Type, Data Sheet	Id Canadian Reg. No.	Id National Id. No.	Id Year Built
See attached sheet 3 of 3 for Partial N-6 Data Reports						
See attached sheet 3 of 3 for Partial N-6 Data Reports						

Additional Material Handling Equipment

Id Name of Manufacturer	Id Equipment Specification	Id Dimensions
See attached sheet 3 of 3 for Partial N-6 Data Reports		
See attached sheet 3 of 3 for Partial N-6 Data Reports		

NOTE: The following shortened company names are used in this report:
 SSEC: Steen & Webster Engr. Corp.
 SPC: Schneider Power Corporation
 HBI & I Co.: Hartford Steam Boiler Inspection & Insurance Company
 PPC: Power Piping Company

Prepared or Checked by

Prepared by

See attached sheet 3 of 3 for Partial N-6 Data Reports

Id Description of Material or Component

See attached sheet 3 of 3 for Partial N-6 Data Reports	
See attached sheet 3 of 3 for Partial N-6 Data Reports	

CERTIFICATE OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on file at STONE & WEBSTER ENG. CORP. BOSTON, MASS.
 Design Report on file at A stress report is not required for Class 2 or 3 piping systems.
 Design specification con. (1) J.R. Baslan PE State Massachusetts
 Reg. No. 55972-B
 Design Report certified by (1) A stress report is not req'd PE Stone N/A
 Reg. No. FOR CLASS 2 or 3 piping systems.
 (1) Signature not required. List names only. f See attached Sheet 3 of 3
 Design Conditions of Piping Pressure psi Temperature F. for partial 8-5 Data Reports.

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, Subsection Subsection
 Addenda Code: Code Section Class 2 and was performed in accordance with the documents listed in P&ID, above.
 ASME No. 8-1974-1 as the ASME Certified under 8-12-09
 See attached sheet 3 of 3 for Partial 8-5 Data reports
 Date 1/13/07 Signed Schneider Power Corporation by [Signature]
Carleton Hobbs

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 Stone & Webster
 of Boston, MA have inspected the installation of the item described in this Data Report on 8-2 2007
 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 shall be held responsible, in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 8-2 Signed [Signature] 105100-1
Inspector State Board, State, Province and No. 1

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder is responsible for the piping system shall complete the following statement. 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 8-18-08 Certificate of Authorization No. 8-1913-2
 Date 8/2/07 Signed Stone & Webster Eng. by [Signature]
PE - Massachusetts

CERTIFICATE OF SUPERVISION

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 Stone & Webster
 of Boston, Massachusetts have supervised the piping described in this Data Report on 8/2 2007
 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 shall be held responsible, in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 8/2 2007
 Signed [Signature] 105100-1
Commissioner Stone & Webster

FORM 100 DATA REPORT FOR COMPLIANCE OR SELF ASSESSMENT OF INDUSTRIAL POWER PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES 1-28-20-10-A-200-1

As Required by the Provisions of the ASME Code Rules, Section III, Division 1 Sheet 1 of 41

1. Installed by Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
2. Installed for Allegheny Light Company, 200 Federal Center, 100 Grand St., Pittsburgh, PA 15222
3. AS Certificate Holder Name & overall responsibility Stone & Webster Engineering Corporation
4. Location of installation Valley Power Station Unit No. 2, Johnstown, PA 15077
5. System Identification: 2-10-2-10-A-200-1 ASME Div. No. III Part 1 Div. No. U-1 Year Installed 1987

6. Number Components and Appurtenances installed in the Field by Working List each item and attach copies of AS Certificate Holder's Data Reports and RFP Certificate Holder's Period Data Reports

(a) Components, or Appurtenances	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No.	(e) National Std. No.	(f) Year Built
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SEE ATTACHMENT (1) "Parts, Components & Appurtenances"

Piping System Installation

(a) Piping Subassembly	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No.	(e) National Std. No.	(f) Year Built
------------------------	--------------------------------	----------------	-----------------------	-----------------------	----------------

SEE ATTACHMENT (2) "Non Fabricated Low Pressure Piping Subassemblies Installed"

SEE ATTACHMENT (3) "Yield Certified Low Pressure Subassemblies Installed"

SEE ATTACHMENT (4) "Non Fabricated High Pressure Subassemblies Installed"

SEE ATTACHMENT (5) "Yield Certified High Pressure Subassemblies Installed"

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Reg. Load Class. Date Sheet	(e) Canadian Reg. No.	(f) National Std. No.	(g) Year Built
---------------------------	--------------------------------	----------------	--	-----------------------	-----------------------	----------------

Comments: Supports are non-fabricated due to nature of erection work. See "Additional Material Excluding Fabrication Material" for "Component Support Labels" Attachment 6(a).

Additional Material Excluding Working Certificate

(a) Name of Manufacturer	(b) Material Specification	(c) Dimensions
--------------------------	----------------------------	----------------

SEE ATTACHMENT (6) "Non-Fabricated Supports"

Additional Fabrication Material

SEE ATTACHMENT (7) "Additional Fabrication"

NOTE: The following shortened company names are used in this report:

- SWEC: Stone & Webster Engr. Corp.
- SPC: Schneider Power Corp.
- MSI & I Co.: Hartford Steam Boiler Inspection & Insurance Co.
- PFC: Power Piping Company

Prepared by

SEE ATTACHMENT (8) "Working Drawings & Revisions"

SEE ATTACHMENT (9) "Permits & Specifications"

(a) Description of Installation Performance

SEE ATTACHMENT (10) "Description of Installation Performance"

(a) Hydrostatic Test 1 (b) System Starting Pressure 1 (c) psi and Temp. 1

* Supplemental sheets to this report, including or excluding any required drawings shall be C-1000, 11 in. (27) information... FORM 100-1

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information as file at STONE & WEBSTER ENG. CORP., BOSTON, MASS.
 Design Report on file at A stress report is not required for Class 2 or 3 piping systems.
 Design specifications call for (1) J.R. Nelson PA State Pennsylvania
 Reg. No. 35972-B
 Design Report certified by (1) A stress report is not required Reg. No. N/A
SEE ATTACHMENT (11) "System Working & Design, Pressure Temperature & Hydrostatic/Pneumatic Tests"
 (1) Signature not required. List name only.
 Design Conditions of Piping: Pressure 0 psi Temperature 0 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.
 Authority Date: Water '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. to use the Symbol expires 8-12-89

ASME A (1) (b) (1) for pressure vessel
 Date 5-3-87 Signed Charles R. [Signature]
SEE ATTACHMENT (11) "ASME Code Section III, Division 1, Part 1, Subpart 1, Table UC-100"

The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by SSI & I Co. of Bartford, CT have inspected the installation of the items described in this Data Report on 5-3-87 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 shall be deemed to be 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 5-3-87 Signed [Signature] Commission PA-3000-2
 Inspector

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system also completed and retaining responsibility for 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 8-12-89 Certificate of Authorization No. 8-1513-2
 Date 5/3/87 Signed Stone Webster Eng. Corp. by [Signature]
 Certificate Holder

CERTIFICATE OF INSPECTION

Inspection made by the Board of Boiler and Pressure Vessel Inspectors
 the State or Province of Pennsylvania and employed by SSI & I Co. of Bartford, Connecticut have inspected the piping described in this Data Report on 5/9/87 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 shall be deemed to be 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 5/9/87
 Signed [Signature] Commission PA20524
 Inspector

N-S DATA REPORT
ATTACHMENT 1

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) YEAR INSTALLED 1987
(SWS Serial No.) 2-88-30-10-A-SWS-3

Continued from Sheet 4

PARTS, COMPONENTS, & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Components or Appurtenances	Certificate Holder	Serial No.	Canadian Reg. No.	National Std. No.	Year Built	Isometric & Isometric Item No.
31	2SWS*NOV106A	Henry Pratt Co.	D-0014-3-1	N/A	N/A	1978	120727 (ITEM#5)
32	YOS060-BZ-3	Henry Vogt Mach.	108-214959	N/A	N/A	1983	120727 (ITEM#30)
33	YOS060-C-3	Dresser Ind.	R263AAG	N/A	N/A	1978	120727 (ITEM#37)
34	YOS060-CZ-3	Henry Vogt Mach.	300-214959	N/A	N/A	1983	120727 (ITEM#49)
35	2SWS*EJN-237B	Pachmay Bellows, Inc.	D-3-3213-W2-914	N/A	N/A	1978	120727 (ITEM#7)
36	2SWS*NOV120A	Henry Pratt Co.	D-0014-7-1	N/A	N/A	1978	120727 (ITEM#3)
37	2SWS*EJN-221B	Pachmay Bellows, Inc.	D-7-3213-W2-1466	N/A	N/A	1980	Dravo 6A (ITEM#16)
		Bellows, Inc.	D-7-3213-W2-1444	N/A	N/A	1980	Dravo 7A (ITEM#4)
39	YOS060-BZ-3	Henry Vogt Mach.	82-214959	N/A	N/A	1983	120705 (ITEM#13)
40	YOS060-B-3	Dresser Ind.	H086AAB	N/A	N/A	1978	121601 (ITEM#2)

NO FURTHER ENTRIES

Continued on Sheet N/A Date 1/2/87 Schneider Power Corp. Signed [Signature]
 Date 1/2/87 Stone & Webster Engineering Corp. Signed [Signature]
 Date 1/2/87 Stone & Webster Engineering Corp. Signed [Signature]
 Date 1/2/87 [Signature] Checked [Signature]
 Date 1/2/87 [Signature] Checked [Signature]
 Date 1/2/87 [Signature] Checked [Signature]

1-8 DATA REPORT
ATTACHMENT 1

- 1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
- 2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15278
- 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) YEAR INSTALLED 1987
(Ident. Model No.) 2-52-30-10-A-5V5-3

Continued from Sheet 1

PARTS, COMPONENTS, & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Components or Apparatus	Certificate Holder	Serial No.	Canadian Reg. No.	National Bd. No.	Year Built	Isometric & Isometric Item No.
16	25WS4RV101B	Dresser Ind.	TE-87730	N/A	N/A	1982	520-139 (ITEM#3)
17	25WS4RV101B	Dresser Ind.	TE-87732	N/A	N/A	1982	520-139 (ITEM#6)
18	25WS4RV101C	Dresser Ind.	TE-87731	N/A	N/A	1982	520-140 (ITEM#3)
19	25WS4RV101A	Dresser Ind.	TE-87729	N/A	N/A	1982	520-140 (ITEM#6)
20	V05060-C-3	Dresser Ind.	H788AAE	N/A	N/A	1978	120728 (ITEM#6)
21	V05060-B2-3	Henry Vogt Mach.	79-214959	N/A	N/A	1983	120728 (ITEM#301)
22	V05060-C-3	Dresser Ind.	H258AAE	N/A	N/A	1978	120728 (ITEM#41)
23	.....	TRM Mission	84580	.....	.....	1976	120728 (ITEM#1)
24	25WS4RV120B	Henry Pratt Co.	B-8814-8-1	N/A	N/A	1978	120728 (ITEM#3)
25	25WS4RV103B	Henry Pratt Co.	A-8827-8-2	N/A	N/A	1978	120728 (ITEM#4)
26	25WS4RV106B	Henry Pratt Co.	B-8814-5-1	N/A	N/A	1978	120728 (ITEM#5)
27	25WS4RV1037A	Pattison Inc.	B-3-3213-82-913	N/A	N/A	1978	120728 (ITEM#7)
28	VC1015-C-3	TRM Mission	84580	N/A	N/A	1976	120727 (ITEM#9)
29	25WS4RV103A	Henry Pratt Co.	A-8827-8-1	N/A	N/A	1978	120727 (ITEM#6)
30	V05060-C-3	Dresser Ind.	H258AAE	N/A	N/A	1978	120727 (ITEM#6)

Continued on Sheet 5

[Handwritten signatures and stamps]

**N-8 DATA REPORT
ATTACHMENT 12**

1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Holder of NRC, Commission, and ASME Licenses)
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET,
PITTSBURGH, PENNSYLVANIA 15270
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) YEAR INSTALLED 1987
(ASME Serial No.) 2-58-30-10-A-545-3

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 in accordance with the ASME Code and specific Addenda which 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-8 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	NB/NC/ND	4427-1	28VS-920
1980	Winter 1982	NCA	8088	28VS-920
1974	Summer 1976	NI	4435	28VS-920
1980	Summer 1981	NCA	8240(b)	28VS-920
1974	N/A	NC/ND/NO	3641.1	28VS-939
1977	Summer 1978	NC/ND	3643.1	28VS-939
1977	Summer 1978	NC/ND	3643.3	28VS-939
1983	Summer 1983	APPENDIX V	N/A	28VS-920
1983	N/A	NI	6111	28VS-920
1980	Summer 1981	NB/NC/ND	6211	28VS-920
1983	Winter 1983	NC/ND	4436	28VS-920
1980	Summer 1981	NC/ND	3658.2	28VS-939
1974	N/A	NB	4231.2	28VS-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	28VS-920	N-292	28VS-920
N-275	28VS-920	1606-1	28VS-939
N-376	28VS-920	N-392	28VS-939
N-248	28VS-920	N-32-3	28VS-920

NO FURTHER ENTRIES

Specified on Sheet N/A

Date 1/2/87 Inspector [Signature] Special [Signature]
 Date 1/2/87 Inspector [Signature] Special [Signature]
 Date 1/2/87 Inspector [Signature] Special [Signature]
 Date 1/2/87 Inspector [Signature] Special [Signature]

20

ASME 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 by PATHWAY BELLONS, INC. 1452-N. JOHNSON AVE. EL CAJON, CAL. 92022
(Name and address of Manufacturer of part)
- (b) Manufactured for STON & WEBSTER ENGINEERING CORPORATION P.O. BOX 186 SHIPPING PORT, PA. 15077
(Name and address of Manufacturer of complete nuclear component)
- 2. Identification-Manufacturer's Serial No. of Part D-7-3213-N2-1469 Ser'l Bd. No. _____
- (a) Constructed According to Drawing No. D-7-3213 REV. C Drawing Prepared by PATHWAY BELLONS, INC.
- (b) Description of Part Inspected 30" EXPANSION JOINT ASSEMBLY
- (c) Applicable ASME Code Section III, Edition 1974, Addenda date W/79 Case No. _____ Class 3
- 3. Remarks WATER MEDIA FOR DUQUESNE LIGHT COMPANY BEAVER VALLEY POWER STATION #2
(List description of portion for which inspection was performed)

DUQUESNE LIGHT CO.
BEAVER VALLEY UNIT #2
289-240

2545-EJ
PATHWAY BELLONS, INC.
EL CAJON, CALIFORNIA

EQUIPMENT DESCRIPTION - 30" EXPANSION JOINT

To certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code are found to comply with the provisions of the ASME Code Section III.
(The applicable Design Specifications and Stress Report are not the responsibility of the part Manufacturer. An appurtenance Manufacturer is responsible for handling a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 7 Aug 19 80 Signed Anthony Benavise, Inc. By W. L. Lane
(Manufacturer)

Conditions of Authorization Expires AUGUST 19, 1980 Conditions of Authorization No. N-1835

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at PATHWAY BELLONS, INC.

Stress analysis report on file at N/A

Design specifications certified by R. E. TSCHIRCH Prof. Eng. State MASS. Reg. No. 27326

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

CERTIFICATE OF SHOP INSPECTION

A certificate issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of NEW YORK, NEW YORK and employed by ROYAL TRINITY COMPANY has inspected the part of a pressure vessel described in this Manufacturer's Pinned Bolt Report on August 7, 1980 and gave due 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, certifying the inspection and his employer (unless my warranty, agreement or implied, concerning the part described in this Manufacturer's Pinned Bolt Report, Purchaser, neither the Inspector nor his employer shall be 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 August 7, 1980

W. L. Lane
Inspector's Signature

CS 1414
Commissioner
Secretary, Board, State, Purchase and Ins.

*Information shown in each of these columns is dependent on the data provided (a) that in Part 1 of the Code, (b) information in items 1-4 on this data report as indicated on each sheet, and (c) information in numbered and captioned sheets in attached to Part 2, "Remarks".

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

Manufactured for STON. WEBSTER ENGINEERING CORPORATION P.O. BOX 186 SHIPPING PORT, PA. 150
 (Name and address of Manufacturer of vessel)

D-7-3213-REV. 1489		D-7-3213 REV. C		198				
NPG's Serial No. of Part		C/S		C/S				
(2 PLY) BELLONS	SA240 T304	T.S.	75,000	Mem. Thk.	.032	REA: 30,000	LOT#	1
PLANNED	SA105	T.S.	70,000	Mem. Thk.	150 FF90 PLD	REA: 30,000	LOT#	2
Material		T.S.		Mem. Thk.		REA:	LOT#	
Material		T.S.		Mem. Thk.		REA:	LOT#	
Material		T.S.		Mem. Thk.		REA:	LOT#	
Material		T.S.		Mem. Thk.		REA:	LOT#	
Material		T.S.		Mem. Thk.		REA:	LOT#	
Material		T.S.		Mem. Thk.		REA:	LOT#	
Material		T.S.		Mem. Thk.		REA:	LOT#	

(2 PLY) BELLONS		BUTT WELD		NONE		NONE		70%	
PLANNED		BUTT WELD		NONE		NONE		70%	
Long		B.T.	NONE	X.R.	NONE	Surf		EX	TOOK
Long		B.T.	NONE	X.R.	NONE	Surf		EX	TOOK
Long		B.T.		X.R.		Surf		EX	
Long		B.T.		X.R.		Surf		EX	
Long		B.T.		X.R.		Surf		EX	
Long		B.T.		X.R.		Surf		EX	
Long		B.T.		X.R.		Surf		EX	
Long		B.T.		X.R.		Surf		EX	
Head with Beads		B.T.		X.R.		Surf		EX	
Other	FILLET WELD	B.T.	NONE	X.R.	NONE	Surf		No. of Courses	3

198
 Per ASME, Inc. Charpy Impact
 V/A

THIS UNIT HYDROSTATICALLY TESTED 225 PSIG AT AMBIENT TEMPERATURE
 EXPANSION JOINT DESIGN AND WELD PER ASME SECTION III NO 3649.4 (e) (1)

BEAVER VALLEY UNIT #2 285-348 EQUIPMENT DESCRIPTION - 30" EXPANSION JOINT	MARK 285PSIG-221A FACTORY BELLONS, INC. EL CAJON, CALIFORNIA
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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 11-2-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 8

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #021577
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Service Water

5. (a) Applicable Construction Code Section III 74 Edition W'75 Addenda -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2SWS-EJM221B	Pathway Bellows	D7-3213-N2-1466	--	30" Metal Expan Jt	1980	Replaced	Yes
2SWS-EJM221B	Pathway Bellows	001	--	Dwg. 88663 Rev. C	1993	Replacement	Yes

7. Description of Work Replaced metal expansion joint with a different 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 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 Replaced MEJ with Vanstone design made of Inconel
under P.O. D120348. NPP-1 and N-5 with 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.

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] Date Nov 17 19 93
Owner or Owner's Representative, Title Senior Engr

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 7/14/93 to 11/19/93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] *Factory Mutual Engr. Assn.
Inspector's Signature Commission NB 8314 ANI P 2245
National Board, State, Province, and Endorsements

Date Nov 19 19 93

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*
(As Required by the Provisions of the ASME Code Rules)

1. Fabricated by Parker Metal Bellows Division of Parker Bertea Order No. F13694
Aerospace Group Parker Hannifin Corporation 200 Science Dr., Moorpark, Ca. 93021

2. Fabricated for Duquesne Light Company, Shippingport, PA Order No. D120348
(Name and Address)

3. Owner Duquesne Light Company 4. Location of Plant Beaver Valley Power Station #2,
Shippingport, PA

5. Piping System Identification Expansion Joint
Brief description of intended use, main coolant etc.)

(a) Drawing No. 88663 Prepared by Parker Metal Bellows Division of Parker Bertea
Aerospace Group Parker Hannifin Corporation

(b) National Board No. ---

6. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3
 Edition 1974 Addenda Date W'75 Case No. N/A

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 stamp)

7. Shop Hydrostatic Test 10 Min. @ 225 psi.

8. Description of piping inspected 88663: Flanges; SA105 C.S., two. End Plate; SB443 Type
(include - mark no. - material spec. - nom. pipe size - schedule or thickness - length
Inconel 625, one. Adaptor; SB443 Type Inconel 625, one. Bellows; SB443 Type
- fittings - flanges, etc.)
Inconel 625 .050" thick sheet butt-welded to a 30.00" O.D. tube, one. Total
length 19.06". Design pressure 150 PSIG @ 120° F. Design verification by
analysis per ND3649.4(e)(1). Installation to be by Customer/Owner per IM88663.
Metal Bellows Part No. 88663 Rev. C - S/N 001

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 9-23-93 Signed Parker Metal Bellows, Fred H Wesley
(Fabricator)

Certificate of Authorization Expires June 2, 1995 Certificate of Authorization No. N-2801

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 HSBI & I Co. of Hartford, CT.
 have inspected the piping described in this Data Report on 9-23-93, and state that to the best of my knowledge
 and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code,
 Section III.

By signing this certificate, neither the inspector nor his employer make any warranty, expressed or implied, concern-
 ing the piping 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 9-23-93
Erico F. Reyes Commissions CA 1526
(Inspector) National Board, State, Province and No.

* 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 in item 7. "Remarks"

ASME N-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 by PATHWAY BELLOWS, INC. 1452 N. JOHNSON AVE. EL CAJON, CAL. 92022
(Name and address of Manufacturer of part)

(b) Manufactured for 57" & WEBSTER ENGINEERING CORPORATION P.O. BOX 106 SHIPPING PORT, PA. 15077
(Name and address of Manufacturer of completed nuclear component)

2. Identification—Manufacturer's Serial No. of Part D-7-3213-42-7468 Part Id. No. _____

(a) Constructed According to Drawing No. D-7-3213 REV. C Drawing Prepared by PATHWAY BELLOWS, INC.

(b) Description of Part Intention 30" EXPANSION JOINT ASSEMBLY

(c) Applicable ASME Code Section III, Edition 1974, Addenda date W75, Code No. _____, Class 3

3. Location WATER MEDIA FOR DUCUESNE LIGHT COMPANY BEAVER VALLEY POWER STATION #2
(Name and address of owner for which component was designed)

DUCUESNE LIGHT CO.
BEAVER VALLEY UNIT #2
289-200

PATHWAY BELLOWS, INC.
EL CAJON, CALIFORNIA

EQUIPMENT DESCRIPTION 30" EXPANSION JOINT

The undersigned hereby certifies that the design and construction of the vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(For applicable Design Specifications and Design Report see the responsibility of the part Manufacturer. An appurtenance Manufacturer is responsible for furnishing a complete Design Specification and Design Report if the appurtenance is not included in the component Design Specification and Design Report.)

Date 7 Oct 1980 Signed James E. ... by James E. ...

Certificate of Authorization Expires August 10, 1982 Certificate of Authorization No. N-1635

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at PATHWAY BELLOWS, INC.

Stress analysis report on file at N/A

Design specifications certified by R.E. THOMPSON Prof. Eng. Dist. MASS. Reg. No. 27326

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

CERTIFICATE OF SHOP INSPECTION

Inspection Licensed by the National Board of Boiler and Pressure Vessel Inspectors under the laws of the State of CALIFORNIA and employed by ROYAL TRINITY COMPANY

I, James E. ... have inspected the part of a pressure vessel described in this Manufacturer's Product Data Report as 30" EXPANSION JOINT ASSEMBLY and certify that to the best of my knowledge and belief, the construction of the component conforms to the applicable rules of the ASME Code Section III.

I, the undersigned, hereby declare that I am not a contractor, employee or agent, representative or representative in this Manufacturer's Product Data Report. Furthermore, neither the inspection nor the employer's approval of this report is my personal act of approval, license or a form of any kind arising from or connected with this report.

James E. ...

CS 1814

PATHWAY

BELLOWS, INC.

MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET

(a) Manufactured by Pathway Bellows, Inc. P.O. Box 1526, El Cajon, California 92023

(Name and address of Manufacturer of part)

(b) Manufactured for STONE & MASTER ENGINEERING CORPORATION P.O. BOX 185 SHIPPING PORT, PA. 15077

(Name and address of Manufacturer of vessel)

D-7-3213-10-1466

D-7-3213 REV. C

1988

Part		Material	CSM	QTY	Wt. (LBS)	Wt. (KG)	Wt. (LBS)	Wt. (KG)	Yield
CFLY BELLOWS FLANGES	SA240 T304	T.S.		75,000			30,000		10
	SA105	T.S.		76,000			30,000		10
		T.S.							
		T.S.							
		T.S.							
		T.S.							
		T.S.							

Part	Weld	Weld	Weld	Weld	Weld	Weld	Weld	Weld	Weld
CFLY BELLOWS FLANGES	BUTT WELD	B.T.	NONE	X.R.	NONE	Surf			705
	FLS	B.T.	NONE	X.R.	NONE	Surf			705
		B.T.		X.R.		Surf			
		B.T.		X.R.		Surf			
		B.T.		X.R.		Surf			
		B.T.		X.R.		Surf			
		B.T.		X.R.		Surf			
Stead with Doublet		B.T.		X.R.		Surf			
Circle	FILLET WELD	B.T.	NONE	X.R.	NONE	Surf			No. of Courses 3

Design Press. 120 PSI At Min. Temp. 0 F Charpy Impact 8 1/2 BTU N/A

Remarks THIS UNIT INDUSTRIOUSLY TESTED 225 PSIG AT AMBIENT TEMPERATURE
EXPANDED JOINT DESIGN QUALIFIED PER ASME SECTION III ND 3648.4 (e) (1)

Manufacturer's Name and Address
SEWER VALLEY UNIT #2
287-800
EQUIPMENT DESCRIPTION 30" EXPANDED JOINT

Manufacturer's Name and Address
2385 E. 104-2218
PATHWAY BELLOWS, INC.
EL CAJON, CALIFORNIA

WELDING CERTIFICATE
PLANT COMPONENTS, CONSTRUCTION, AND APPLICATIONS

3-22-20-10-200-1
 Sheet 1 of 3

As Required by the Board of the American Welding Society, Section 22, Division 1

1. Installed by Schneider Power Corp., 127 S. Duquesne Street, Pittsburgh, PA 15222
2. Installed for Supreme Light Company, One Square Centre, 201 Green St., Pittsburgh, PA 15279
3. If Certificate Holder having overall responsibility Steen & Hubster Engineering Corporation
4. Location of Installation MSR Valley Power Station Unit #2, Shippensburg, PA 17607
5. System Identification 10-200-1-1-1 ATT. 10 Part No. 1/1 Year Installed 1987

6. **Welding Components and Apparatus Installed in the Field by Welding S.L.C. each item and attach Certificate Holder's Data Reports and WPT Certificate Holder's Partial Data Reports**

Welding Component	Welding S.L.C.	Welding S.L.C. No.	Welding S.L.C. No.	Welding S.L.C. No.	Year Built
See attached sheet 3 of 3 for Partial 6-8 Data Reports					

E7870009 001

Welding System Installation

Welding System	Welding S.L.C.	Welding S.L.C. No.	Welding S.L.C. No.	Welding S.L.C. No.	Year Built
See attached sheet 3 of 3 for Partial 6-8 Data Reports					

Component Support Installation

Component Support	Welding S.L.C.	Welding S.L.C. No.	Welding S.L.C. No.	Welding S.L.C. No.	Year Built
See attached sheet 3 of 3 for Partial 6-8 Data Reports					

Additional Material Qualifying Welding Operator

Name of Manufacturer	Material Specification	Qualification
See attached sheet 3 of 3 for Partial 6-8 Data Reports		

NOTE: The following shortened company names are used in this report:
 SSEC: Steen & Hubster Engr. Corp.
 SPC: Schneider Power Corporation
 HSDI & I Co.: Hartford Steam Boiler Inspection & Insurance Company
 PFC: Power Plate Company

Pressure or Operating etc.

Prepared by

See attached sheet 3 of 3 for Partial 6-8 Data Reports

See attached sheet 3 of 3 for Partial 6-8 Data Reports

See attached sheet 3 of 3 for Partial 6-8 Data Reports

CERTIFICATE OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on file at STONE & HEWITT ENG. CORP., BOSTON, MASS.
 Design Report on file at A stress report is not required for Class 2 or 3 piping systems.
 Design authorization on (1) J.R. Nolan PE State Massachusetts
 Reg. No. 55972-E
 Design Report entitled 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 names only. # See attached Sheet 3 of 3 for partial 10-6 Data Reports.
 Design Conditions of Piping None and None

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.
 Address Code _____ Code Grade _____ Class _____ and was performed in accordance with the documents listed in Part, above.
 * See attached sheet 3 of 3 for Partial 10-6 Data reports
 Date 1/27/87 Signed Shelby Pear Corporation by [Signature]
 (Certification 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 Stone & Hewitt of Boston, MA have inspected the installation of the item described in this Data Report on 1-27-87 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 1-27-87 Signed [Signature] Inspector # 103100-2
 (State, Province and No.)

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder shall complete the following statement. See attached Sheet 3 of 3 for partials for material responsibility 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 8-15-88 Certificate of Authorization No. 8-1513-2
 Date 1/27/87 Signed Stone & Hewitt Corp. by [Signature]
 (PE or State/Province)

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 Stone & Hewitt of Boston, Massachusetts have inspected the piping described in this Data Report on 1/27/87 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 1/27/87
 Signed [Signature] Commissioning [Signature]
 (State, Province and No.)

INS DATA REPORT

1-12-10-10-205-3

Sheet 2 of 3

1. INSTALLED BY: Schneider Power Corp., 125 SENECA STREET, PITTSBURGH, PA 15222
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15270
3. IN CERTIFICATE HOLDER HAVING OVERALL RESPONSIBILITY: Stano & Webster Engineering Corp.
4. LOCATION OF INSTALLATION: Beaver Valley Power Station, Unit-2, Shippingport, PA 15077
5. SYSTEM IDENTIFICATION: 100-30-10-4-205-3 YEAR INSTALLED 1987

INITIAL IS DATA SHEET LISTING

Continued from Sheet 1 & 2

Part No.	Quantity
100-30-100(NDB)SWS	3
100-30-100(NDB)SWS	3
100-30-10-4-205-3	41
NO FURTHER ENTRIES	

Continued on Sheet 5/8

John J. [Signature]
 [Signature]
 [Signature]
 [Signature]

N-8 DATA REPORT
ATTACHMENT 1

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 15278
3. IN 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) YEAR INSTALLED 1987
(If Serial No.) 2-BE-30-10-A-BV-3

Continued from Sheet 4

PARTS, COMPONENTS, & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Components or Appurtenances	Certificate Holder	Serial No.	Canadian Reg. No.	National Std. No.	Year Built	Isometric & Isometric Item No.
31	2SWS-NDV106A	Henry Pratt Co.	D-0014-3-1	N/A	N/A	1978	120727
32	VC8060-BZ-3	Henry Vogt Mach.	100-214959	N/A	N/A	1983	(ITEM#5) 120727
33	VC8060-C-3	Dresser Ind.	E263AAG	N/A	N/A	1978	(ITEM#30) 120727
34	VC8060-CZ-3	Henry Vogt Mach.	300-214959	N/A	N/A	1983	(ITEM#37) 120727
35	2SWS-ELN-237B	Pathway Bellows, Inc.	D-3-3213-W2-914	N/A	N/A	1978	(ITEM#49) 120727
36	2SWS-NDV120A	Henry Pratt Co.	D-0014-7-1	N/A	N/A	1978	(ITEM#7) 120727
37	2SWS-ELN-221B	Pathway Bellows, Inc.	D-7-3213-W2-1446	N/A	N/A	1980	(ITEM#9) Dravo 6A 120727
		Bellows, Inc.	D-7-3213-W2-1448	N/A	N/A	1980	(ITEM#16) Dravo 7A 120727
39	VC8060-BZ-3	Henry Vogt Mach.	82-214959	N/A	N/A	1983	(ITEM#4) 120705
40	VC8060-B-3	Dresser Ind.	B0064AE	N/A	N/A	1978	(ITEM#13) 101601 (ITEM#2)

NO FURTHER ENTRIES

Continued on Sheet N/A Date 7/1/87 Stone & Webster Engineering Corp. PA 15022
 Date 7/1/87 Stone & Webster Engineering Corp. PA 15022
 Date 7/1/87 Stone & Webster Engineering Corp. PA 15022
 Date 7/1/87 Stone & Webster Engineering Corp. PA 15022

N-S DATA REPORT / ATTACHMENT I

- 1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
- 2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15278
- 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) YEAR INSTALLED: 1987
(N.S. Form No.) 2-28-30-10-A-SWS-3

Continued from Sheet 3

PARTS, COMPONENTS, & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Components or Appurtenances	Certificate Holder	Serial No.	Canadian Reg. No.	National Est. No.	Year Built	Isometric & Isometric Item No.
16	2SWS-REV101B	Dresser Ind.	TE-87730	N/A	N/A	1982	520-139 (ITEM#3)
17	2SWS-REV101B	Dresser Ind.	TE-87732	N/A	N/A	1982	520-139 (ITEM#5)
18	2SWS-REV101C	Dresser Ind.	TE-87731	N/A	N/A	1982	520-140 (ITEM#3)
19	2SWS-REV101A	Dresser Ind.	TE-87729	N/A	N/A	1982	520-140 (ITEM#6)
20	Y05060-C-3	Dresser Ind.	N3080AE	N/A	N/A	1978	120728 (ITEM#6)
21	Y05060-82-3	Henry Vogt Mech.	79-214999	N/A	N/A	1983	120728 (ITEM#30)
22	Y05060-C-3	Dresser Ind.	N2580AG	N/A	N/A	1978	120728 (ITEM#41)
23	.....	.....	84580	.....	.....	1976	120728 (ITEM#1)
24	2SWS-REV120B	Henry Pratt Co.	B-0014-8-1	N/A	N/A	1978	120728 (ITEM#3)
25	2SWS-REV103B	Henry Pratt Co.	A-0027-8-2	N/A	N/A	1978	120728 (ITEM#4)
26	2SWS-REV106B	Henry Pratt Co.	B-0014-5-1	N/A	N/A	1978	120728 (ITEM#5)
27	2SWS-REV-237A	Pathway Inc.	B-3-2213-82-913	N/A	N/A	1978	120728 (ITEM#7)
28	VC1015-C-3	TEB Mission	84580	N/A	N/A	1976	120727 (ITEM#1)
29	2SWS-REV103A	Henry Pratt Co.	A-0027-8-1	N/A	N/A	1978	120727 (ITEM#4)
30	Y05060-C-3	Dresser Ind.	N2580AG	N/A	N/A	1978	120727 (ITEM#6)

Continued on Sheet 5

[Handwritten signatures and stamps]

Checked by: [Signature]
 Date: [Signature]
 Approved by: [Signature]
 Date: [Signature]

N-8 DATA REPORT
ATTACHMENT 12

1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of NRC, Commission, and ASME Certificate)
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15270
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) YEAR INSTALLED 1987
(NRC Serial No.) 2-88-38-10-A-SWS-3

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 the specific Edition(s)/Addenda(s) which 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-8 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	HB/HC/HD	4427-1	2BVS-920
1980	Winter 1982	NCA	8000	2BVS-920
1974	Summer 1976	IX	4435	2BVS-920
1980	Summer 1981	NCA	8240(b)	2BVS-920
1974	N/A	HC/HC/HD	3641.1	2BVS-939
1977	Summer 1978	HC/HD	3643.1	2BVS-939
1977	Summer 1978	HC/HD	3643.3	2BVS-939
1983	Summer 1983	APPENDIX V	N/A	2BVS-920
1983	N/A	IX	6111	2BVS-920
1980	Summer 1981	HB/HC/HD	6211	2BVS-920
1983	Winter 1983	HC/HD	4436	2BVS-920
1980	Summer 1981	HC/HD	3758.2	2BVS-939
1974	N/A	HB	4231.2	2BVS-920

NO FURTHER ENTRIES

Code Cases) involved 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-275	2BVS-920	1606-1	2BVS-939
N-376	2BVS-920	N-392	2BVS-939
N-248	2BVS-920	N-32-3	2BVS-920

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 10/12/87 Signed [Signature]
 Date 10/12/87 Signed [Signature]
 Date 10/12/87 Signed [Signature]

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 11-4-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 2

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #023898
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Fire Protection

5. (a) Applicable Construction Code Section III 74 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)
2FPW-388	Atwood-Morrill	22-13540	--	2.5" Check Valve	1980	Repaired	Yes

7. Description of Work Replaced valves bolting

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks NPV-1 form 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] Senior Engr. Date Nov. 17 19 93
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 this Owner's Report during the period 10/11/93 to 11/22/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NO 8314 AMI 22245
Inspector's Signature National Board, State, Province, and Endorsements

Date November 22 19 93

FORM RPPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cover Studs	SA 193 Gr. B7	Vitco Nuclear Prod.	Code TC
Cover Nuts	SA 194 Gr. 2H	Vitco Nuclear Prod.	Code RB
Stuff. Box Studs	SA 193 Gr. B7	Vitco Nuclear Prod.	Code J7B
Stuff. Box Nuts	SA 194 Gr. 2H	Vitco Nuclear Prod.	Code J22
(d) Other Parts			
Stuff. Box Cover HT.# 68A054	SA 515 Gr. 70	U.S. Steel Corp.	S/N 22A-13540 S/N 22B-13540
Cover HT.# 74D786	SA 515 Gr. 70	U.S. Steel Corp.	S/N 22-13540

6. Hydrostatic test 450 psi. Dist. 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 1974.
 Address: Summer 1974, Code Case No. N/A, Date N/A
 Signed: Almond & Merrill Co., Inc. by J. P. M. Gray GAUGE 4/19/84
 or Certificate Holder
 Our ASME Certificate of Authorization No. N-2606 is used on N symbol expires 6/13/86

CERTIFICATION OF DESIGN

Design information on file at Stokes & 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. 616-K
 Stress analysis certified by (1) N/A
 PE State N/A Reg. No. N/A

(1) Signature not required. List name only.

RECEIVED
 APR 25 1984
 Stokes & Webster
 Engineering Corporation
 Decatur, Georgia

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspection and the State of Massachusetts and employed by M.S.R.I. A.I. Co.
 of Hartford, CT. have inspected the pump, or valve, described in this Data Report on 6-18 to 82, 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.

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

Date 4-19 to 19 84
William A. Sullivan Inspector Commission WALSH W2285
 (Don't list State, Penn. and No.)

9

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 11-4-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR 020396
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Service Water

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 B3E-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)
2SWS-EJM237A	Pathway Bellows	D3-3213-N2-913	--	30" Metal Expan. Jt.	1978	Replaced	Yes
2SWS-EJM237A	Parker Meta Bellow	001	--	Dwg. 88664 Rev. c	1993	Replacement	Yes

7. Description of Work Replaced metal expansion joint with a different 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced MEJ with a van stone design made of Inconel 625 Matl.
under P.O. D120348. NPP-1 and N-5 with 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 NPDP 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] Servo-Eng. Date November 9 19 93
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 this Owner's Report during the period 5/29/93 to 11/9/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Inspector's Signature Commission NB 8314 A.N.I. 2245
National Board, State, Province, and Endorsements

Date 11/9 19 93

FORM NPP-1 DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES*
(As Required by the Provisions of the ASME Code Rules)

1. Fabricated by Parker Metal Bellows Division of Parker Berteau Order No. F13694
Aerospace Group Parker Hannifin Corporation 200 Science Dr., Moorpark, Ca. 93021

2. Fabricated for Duquesne Light Company, Shippingport, PA Order No. D120348
(Name and Address)

3. Owner Duquesne Light Company 4. Location of Plant Beaver Valley Power Station #2,
Shippingport, PA

5. Piping System Identification Expansion Joint
(Brief description of intended use, main coolant etc.)

(a) Drawing No. 88664 Prepared by Parker Metal Bellows Division of Parker Berteau
Aerospace Group Parker Hannifin Corporation

(b) National Board No. -----

6. The material, design, construction, and workmanship complies with ASME Code Section III, Class 3
 Edition 1974, Addenda Date W'75, Case No. N-315

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 stamp)

7. Shop Hydrostatic Test 10 Min. @ 225 psi.

8. Description of piping inspected 88664: Flanges; SA105 C.S., two. End Plate; SB443 Type
(include - mark no. - material spec. - nom. pipe size - schedule or thickness - length
Inconel 625, one. Adaptor; SB443 Type Inconel 625, one. Bellows; SB443 Type
- fittings - flanges, etc.)
Inconel 625 .050" thick sheet butt-welded to a 30.00" O.D. tube, one. Total
length 22.56". Design pressure 150 PSIG @ 105° F. Design verification by
analysis per ND3649.4(e)(1). Installation to be by Customer/Owner per IM88663.
Metal Bellows Part No. 88664 Rev. C - S/N 001

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 9-24-93 Signed Parker Metal Bellows By Fred H Wesley
(Fabricator)

Certificate of Authorization Expires June 2, 1995 Certificate of Authorization No. N-2801

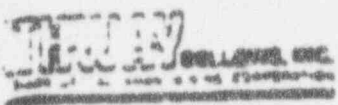
CERTIFICATE OF SHOP INSPECTION

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 HSBI & I Co. of Hartford, CT.
 have inspected the piping described in this Data Report on 9-24-93, and state that to the best of my knowledge
 and belief, the Manufacturer has constructed this piping in accordance with the applicable Subsections of ASME Code,
 Section III.

By signing this certificate, neither the Inspector nor his employer make any warranty, expressed or implied, concern-
 ing the piping 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 9-24-93 Paul F. Reyes Commissions CA 1526
(Inspector) National Board, State, Province and No.

* 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



Manufactured by Terry Bellos - P.O. Box 1576, El Cajon, California 92022
Office and address of Manufacturer of part

Manufactured for Stone & Webster, P.O. Box 186, Shipping Port, Pa. 19077
Office and address of Manufacturer of vessel

Material No. of Part D-3-3213-42-913 CBOM --- Orig. No. D-3-3213 Yr. Built 1978

Material	QTY	T.S.	WGT.	WHL. TMR.	SEA.	LGTH.
Bel lows	SA304T304	T.S.	72,000	WHL. TMR.	SEA.	12.0
Flange	SA304	T.S.	70,000	WHL. TMR.	SEA.	2-1
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	

Material	QTY	T.S.	WGT.	WHL. TMR.	SEA.	LGTH.
Bel lows		T.S.		WHL. TMR.	SEA.	708
Flange		T.S.		WHL. TMR.	SEA.	1000
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	
Flange		T.S.		WHL. TMR.	SEA.	

Energy Impact W/A
 Charpy Impact W/A
 Tensile --- Yield --- Elongation --- Brinell --- No. of Charpy ---

THIS PART WERE TESTED AT

8

FORM #3 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSEL PARTS

As required by the Provisions of the ASME Code Rules

1. Manufacturer: Pathway Bellows Inc. 1432 S. JOHNSON, EL CAJON, CALIFORNIA 92022
subsidiary of Colson Valve Corporation

2. Material used for: Steel & Yabster # 0 Box 186 Shipping Port # 1977

3. Material to which Manufacturer's Report No. D-3-3213-12-913
ASME Certificate No. D-3-3213
Drawing Prepared by Pathway Bellows, Inc.

4. Description of Part: Expansion Joint Assembly
Applicable ASME Code Section: 1994 Class 3
Address Date: Winter 1979
Case No. N/A

5. Location: PIPING EXPANSION JOINT FOR WATER MEDIA FOR BURNETT LIGHT CO.
(Check description of service for which vessel part was designed)
BEAVER VALLEY POWER STATION #2

BEAVER VALLEY UNIT #2
204-240
EQUIPMENT DESCRIPTION

PATHWAY BELLOWS
EL CAJON CA

17897

6. Description of Service: [REDACTED]

7. Signature of Manufacturer: [REDACTED]

REPRODUCED COPY

**FORM 8-6 DATA REPORT FOR CANDIDATE STATES IN CANDIDATE STATES OF NUCLEAR POWER
PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES**

2-23-78-10-205-3

As Required by the Provisions of the Atomic Energy Act, Section 161, Statute 1 Sheet 1 of 3

1. Installed by Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
2. Installed for Emergency Light (Emergency, One Century Center, 201 Grant St., Pittsburgh, PA 15279)
3. N Certificate Holder having overall responsibility Stame & Webster Engineering Corporation
4. Location of installation WVW Valley Power Station Unit #2, Bridgeport, PA 15077
5. System Identification # 10-205-3 A/A ATT. 20 Part 1 Cat. No. A/A Year Installed 1987

6. Number Components and Appurtenances installed in the Field by Working List each item and attach copies of N Certificate Holder's Data Reports and NPP Certificate Holder's Partial Data Reports

Component or Appurtenance	N Certificate Holder	NPP Certificate Holder	N Canadian Reg. No.	N National Reg. No.	N Year Built
---------------------------	----------------------	------------------------	---------------------	---------------------	--------------

E7870009 001

See attached sheet 2 of 3 for Partial 8-6 Data Reports

Component or Appurtenance	N Certificate Holder	NPP Certificate Holder	N Canadian Reg. No.	N National Reg. No.	N Year Built

Piping System Installation

N Piping Subassembly	N Name of Certificate Holder	N State No.	N Canadian Reg. No.	N National Reg. No.	N Year Built
----------------------	------------------------------	-------------	---------------------	---------------------	--------------

See attached sheet 2 of 3 for Partial 8-6 Data Reports

N Piping Subassembly	N Name of Certificate Holder	N State No.	N Canadian Reg. No.	N National Reg. No.	N Year Built

Component Support Installation

N Component Support No.	N Name of Certificate Holder	N State No.	N Design Reg. No.	N Canadian Reg. No.	N National Reg. No.	N Year Built
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See attached sheet 2 of 3 for Partial 8-6 Data Reports

N Component Support No.	N Name of Certificate Holder	N State No.	N Design Reg. No.	N Canadian Reg. No.	N National Reg. No.	N Year Built

Additional Material Including Working Drawings

N Name of Manufacturer	N Name of Certificate Holder	N State No.	N Canadian Reg. No.	N National Reg. No.	N Year Built
------------------------	------------------------------	-------------	---------------------	---------------------	--------------

NOTE: The following shortened company names are used in this report:
 SWE: Stame & Webster Engr. Corp.
 SPC: Schneider Power Corporation
 WBI & I Co.: Hartford Steam Boiler Inspection & Insurance Company
 PPC: Power Piping Company

Procedure or Drawing No. _____ Prepared by _____

See attached sheet 2 of 3 for Partial 8-6 Data Reports

See attached sheet 2 of 3 for Partial 8-6 Data Reports

See attached sheet 2 of 3 for Partial 8-6 Data Reports

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on file at STYRON & WILSON ENG. CORP. BOSTON, MASS.
 Design Report on file at A stress report is not required for Class 3 or 3 piping systems
 Design approved by (1) J.R. Basian PE State Rhode Island
 Reg. No. 55972-2
 Design Report required by (1) A stress report is not req'd PE State R/I
 Reg. No. FOR CLASS 1 or 3 piping systems. / See attached Sheet 3 of 3 for partial 10-5 Data Reports.
 (1) Signature not required. List name only.
 Conditions of Piping As shown and as indicated

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.
 Authority Code: _____ Code Chapter _____ Class _____ and was performed in accordance with the documents listed in Title above.
 Date 8-10-87 Symbol 9-12-89
 See attached sheet 3 of 3 for Partial 10-5 Data reports
 Date 8/2/87 Signed Schneider Pump Corporation by [Signature]
 Conditions As shown

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 Rhode Island and employed by AME & I Co.
 of Providence, RI have inspected the installation of the item described in this Data Report on 8-2-87 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, express 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 8-2-87 Signed [Signature] Inspector 113100-2
 (Must State Title, Position and No.)

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authority responsibility for the piping system shall complete the following statement. 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 8-18-88 Certificate of Authorization No. 11-1513-2
 Date 8/2/87 Signed Styron & Wilson Eng. by [Signature]
 (Must State Title, Position and No.)

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 Rhode Island and employed by AME & I Co.
 of Providence, Rhode Island have inspected the piping described in this Data Report on 8/2/87 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, 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 8/2/87
 Signed [Signature] Inspector 113100-2
 (Must State Title, Position and No.)

MS DATA REPORT

2-22-30-10-SMS-3

Sheet 2 of 3

1. INSTALLED BY: Schnolzer Power Corp., 123 Research Center, Pittsburgh, PA 15222
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15270
3. IN 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 Meter System (SMS) 2-22-30-10-SMS-3 YEAR INSTALLED 1987

DETAILS OF DATA ENTRY LISTING

Continued from Sheet 1 & 2

Location	Count
2-22-30-10B(NDB)SMS	3
2-22-30-10C(NDB)SMS	3
2-22-30-10-A-SMS-3	41
added FURTHER ENTRIES	

Continued on Sheet 3/1

2-22-30-10-SMS-3
Stone & Webster Engineering Corp.
123 Research Center
Pittsburgh, PA 15222
June 2, 1987
[Signature]
[Signature]

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on file at FRIGER & WERTSERS ENG. CORP., BOSTON, MASS.
 Design Report on file at A stress report is not required for Class 2 or 3 piping systems.
 Design specifications per ASME Code by J.E. Baslan of State Pennsylvania
 Reg. No. 32972-B
 Design Report certified by (1) A stress report is not required Date 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 Pressure and 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.
 Additional Date: Under '72 & Code Case No. Class and was performed in accordance with the documents listed in Part above.
 Our ASME Certificate of Authorization No. B-1613-1 to use the SA Symbol expires 8-12-89

Date 5-3-78 Signed [Signature]
 SEE ATTACHMENT (11) "ASME Code for Nuclear Power Plant Components, Section III, Division 1, 1971 & Edition, Code Case No. 1971 & Edition"

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 of Connecticut and employed by SEBI & I Co. of Hartford, CT have inspected the installation of the items described in this Data Report on 1-8-78 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, express 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 5-3-78 Signed [Signature] Commission B-1613-1
 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 has completed the following statement: SEE 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 8-12-89 Certificate of Authorization No. B-1613-1

Date 5/1/78 Signed [Signature] 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 of Connecticut and employed by SEBI & I Co. of Hartford, Connecticut have inspected the piping described in this Data Report on 5/1/78 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 5/1/78 Signed [Signature] Commission B-1613-1
 National Board, State, Province and No.

N-S DATA REPORT
ATTACHMENT 1

1. INSTALLED BY Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15122
(Name and Address of Installer of Parts, Components, and Accessories)
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET
PITTSBURGH, PENNSYLVANIA 15279
3. IN 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) YEAR INSTALLED 1987
(N.S. Form No.) 2-BR-30-10-A-548-3

Continued from Sheet 4

PARTS, COMPONENTS, & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Components or Appurtenances	Certificate Holder	Serial No.	Canadian Reg. No.	National Std. No.	Year Built	Isometric & Isometric Item No.
31	2SWS*MDV106A	Henry Pratt Co.	D-0914-3-1	N/A	N/A	1978	120727 (ITEM#5)
32	VC8060-RZ-3	Henry Vogt Mach.	100-214959	N/A	N/A	1983	120727 (ITEM#30)
33	VC8060-C-3	Brooseer Ind.	E263AAG	N/A	N/A	1978	120727 (ITEM#37)
34	VC8060-CZ-3	Henry Vogt Mach.	100-214959	N/A	N/A	1983	120727 (ITEM#49)
35	2SWS*ELN-237B	Pachmay Bellows, Inc.	D-3-3213-R2-914	N/A	N/A	1978	120727 (ITEM#7)
36	2SWS*MDV120A	Henry Pratt Co.	D-0914-7-1	N/A	N/A	1978	120727 (ITEM#3)
37	2SWS*ELN-221B	Pachmay Bellows, Inc.	D-7-3213-R2-1466	N/A	N/A	1980	Drawo 6A (ITEM#16)
		Bellows, Inc.	D-7-3213-R2-1466	N/A	N/A	1980	Drawo 7A (ITEM#4)
39	VC8060-RZ-3	Henry Vogt Mach.	82-214959	N/A	N/A	1983	120705 (ITEM#13)
40	VC8060-B-3	Brooseer Ind.	E804AAE	N/A	N/A	1978	101601 (ITEM#2)

NO FURTHER ENTRIES

Continued on Sheet N/A Date 1/2/87 Signed [Signature]
 Date 1/2/87 Signed [Signature]
 Date 1/2/87 Signed [Signature]
 Date 1/2/87 Signed [Signature]

N-6 DATA REPORT ATTACHMENT 1

- 1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
- 2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 201 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15278
- 3. CERTIFICATE HOLDER HAVING OVERALL RESPONSIBILITY: Stora & Webster Engineering Corp.
- 4. LOCATION OF INSTALLATION: Beaver Valley Power Station, Unit-2, Shippingport, PA 15077
- 5. SYSTEM IDENTIFICATION: Service Water System (SWS) YEAR INSTALLED 1987
(N-6 Form No.) 2-58-30-10-A-SWS-3

Continued from Sheet 3

PARTS, COMPONENTS, & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Components or Appurtenances	Manufacturer	Serial No.	Canadian Reg. No.	National Std. No.	Year Built	Isometric & Isometric Item No.
16	2SWS-RV101B	Dresser Ind.	TE-87730	N/A	N/A	1982	528-139 (ITEM 3)
17	2SWS-RV101B	Dresser Ind.	TE-87732	N/A	N/A	1982	528-139 (ITEM 5)
18	2SWS-RV101C	Dresser Ind.	TE-87731	N/A	N/A	1982	528-140 (ITEM 3)
19	2SWS-RV101A	Dresser Ind.	TE-87729	N/A	N/A	1982	528-140 (ITEM 6)
20	V88860-C-3	Dresser Ind.	KY88860	N/A	N/A	1978	120728 (ITEM 6)
21	V88860-82-3	Henry Vogt Mach.	79-214959	N/A	N/A	1983	120728 (ITEM 30)
22	V88860-C-3	Dresser Ind.	KP528A8	N/A	N/A	1978	120728 (ITEM 41)
23	.....	the mission	84580	.....	.....	1976	120728 (ITEM 1)
24	2SWS-RV120B	Henry Pratt Co.	B-8814-8-1	N/A	N/A	1978	120728 (ITEM 3)
25	2SWS-RV103B	Henry Pratt Co.	A-8827-8-2	N/A	N/A	1978	120728 (ITEM 4)
26	2SWS-RV103B	Henry Pratt Co.	B-8814-5-1	N/A	N/A	1978	120728 (ITEM 5)
27	2SWS-RV1237A	Patrow Inc.	B-3-3213-82-913	N/A	N/A	1978	120728 (ITEM 7)
28	VC1015-C-3	The Mission	84580	N/A	N/A	1976	120727 (ITEM 1)
29	2SWS-RV103A	Henry Pratt Co.	A-8827-8-1	N/A	N/A	1978	120728 (ITEM 4)
30	V88860-C-3	Dresser Ind.	KP528A8	N/A	N/A	1978	120728 (ITEM 5)

Continued on Sheet 5 *[Handwritten signatures and notes]*

N-8 DATA REPORT
ATTACHMENT 12

1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15278
3. IN 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) YEAR INSTALLED 1987
(Add Serial No.) 2-58-30-10-A-SVS-1

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 in accordance with the specific Edition/Addenda which material was procured and certified is identified on the Certified Material Test Report or Certificates of Compliance furnished with the material and referenced on Attachment (7) to this N-8 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	NB/NC/ND	4427-1	28VS-920
1980	Winter 1983	NCA	8000	28VS-920
1974	Summer 1976	NK	4435	28VS-920
1980	Summer 1981	NCA	8240(b)	28VS-920
1974	N/A	NP/NC/ND	3641.1	28VS-939
1977	Summer 1978	NC/ND	3643.1	28VS-939
1977	Summer 1978	NC/ND	3643.3	28VS-939
1983	Summer 1983	APPENDIX V	N/A	28VS-920
1983	N/A	NK	6111	28VS-920
1980	Summer 1981	NB/NC/ND	6211	28VS-920
1983	Winter 1983	NC/ND	4436	28VS-920
1980	Summer 1981	NC/ND	3658.2	28VS-939
1974	N/A	ND	4231.2	28VS-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	28VS-920	N-292	28VS-920
N-275	28VS-920	1606-1	28VS-939
N-326	28VS-920	N-392	28VS-939
N-348	28VS-920	N-32-3	28VS-920

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 10/27/87 [Signature] [Title]
 Date 10/27/87 [Signature] [Title]
 Date 10/27/87 [Signature] [Title]
 Date 10/27/87 [Signature] [Title]

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 11-8-93

Sheet 1 of 2

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2

MWR #023894

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: Recirculation Spray

5. (a) Applicable Construction Code Section III 71 Edition S'72 Addenda -- Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 81E-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)
2RSS-E21A	Joseph Oat Corp	2189-1A	890	Vertical Heat Exch	1976	Repaired	Yes

7. Description of Work: Plugged and seal welded ten (10) tubes

8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
*LP, OST 2.30.13

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-1 form 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 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 Engr Date Nov. 12 19 93
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 this Owner's Report during the period 10/11/93 to 11/12/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Commission NR 8214 ADI-L. Deane
Inspector's Signature National Board, State, Province, and Endorsements

Date November 12 19 93

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location In piping

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Inlet, outlet	2 (1 ea)	16"	Pipe	SA 538	SCH 40	SA 515-70	Welded
Drain	1	1"	Colg	SA182-304	3000#	None	Welded
Inlet, Outlet	2 (1 ea)	12"	Plt.	SA240-304	3/8	SA240-304	Welded
		12"	Pipe	SA:312-304	SCH 40	None	Welded

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

Opening: Headholes, No. _____ Size _____ Location _____

Threaded, No. 2 Size 1" Location 1 Top & 1 BTM Tubesheet

2 (1 ea) 3/4"+1" IN Top & BTM Channel Covers

18. Support Skirt No. _____ Lug _____ Leg _____ Other _____ Attached _____ Shell _____

(X) _____ (Number) _____ (Number) _____ (Describe) _____ (Where & How)

19. Remarks: Vessel is a recirculating spray cooler.

Shell, Inlet and Outlet nozzles are conical

Inlet is 26" X 12" Outlet is 14" X 12"

OAL 42"

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information of this Stone and Webster Eng., Boston, Mass.

Stress analysis report on file at Stone & Webster Eng., Boston, Mass.

Design specifications certified by Carlotto Richardson Prof. Eng. State Pa. Reg. No. 016297-E

Stress analysis report certified by Krishna Pal Singh Prof. Eng. State Pa. Reg. No. 20906-E

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

Date Sept 27 19 76 Signed Joseph Oat Corporation John J. Benkert
(Manufacturer)

Certificate of authorization Expires August 23, 1979 Certificate of Authorization No. 1488

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Joseph Oat Corporation at Camden, New Jersey

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 PA. and employed by H.S.B.I. & I. CO. of HARTFORD, CONN.

have inspected the pressure vessel described in this Manufacturer's Data Report on September 29, 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

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

Date September 29, 19 76

Walter Flannery
Inspector's Signature

Commission NB 4438, PA 1786
National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have

been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psi.

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

Date _____ 19 _____

Inspector's Signature _____

Commission _____
National Board, State, Province and 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 Date 11-8-93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #016609
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Recirculation Spray

5. (a) Applicable Construction Code Section III 19 71 Edition, S'72 Addenda -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
2RSS-E21B	Joseph oat Corp	2189-1B	891	Vertical Heat Exch.	1976	Repaired	Yes

7. Description of Work: Plugged and seal welded 2 tubes and 1 tubesheet location

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 *LP, OST 2.30.13B

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-1 form attached, one tube was removed for examination and its tubesheet location plugged and seal welded.
Applicable Manufacturer's Data Reports to be 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] Owner or Owner's Designee, Title Section Eng Date November 9 19 93

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 2/8/93 to 11/9/93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Commission NR 8314 ANI National Board, State, Province, and Endorsements

Date _____ 19 _____

Notes to be completed for all vessels where applicable.

15. Safety Valve Outlets Number _____ Size _____ Location 1 in plain

16. Nozzles

Portion (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	No Reinforcement	How Attached
inlet, outlet	2 (1 ea)	16"	Pipe	SA53B	SCH 40	SA515-70	Welded
Drain	1	1"	Colg	SA182-304	3000#	None	Welded
inlet, outlet	2 (1 ea)	12"	Plt	SA240-304	3/8"	SA240-304	Welded
		12"	Pipe	SA312-304	SCH 40	None	Welded

17. Inspection Manholes, No. _____ Size _____ Location _____
 Openings Handholes, No. _____ Size _____ Location _____
 Threaded, No. 2 Size 1/4" Location 1 top and 1 bottom tubesheet
2 (1 ea) 3/4" + 1" In top and bottom Channel Covers
 18. Support Stays No _____ Legs No _____ Legs No _____ Other Rings/Gussets Attached Shell welded
 (Type or Size) (Number) (Number) (Number) (Describe) (Where & How)

19. Remarks Vessel is a recirculating spray cooler.

Shell inlet and outlet nozzles are conical.
 Inlet is 16" X 12" Outlet is 14" X 12",
 OAL 42"

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster Eng., Boston, Mass.
 Stress analysis report on file at Stone & Webster Eng., Boston, Mass.
 Design specifications certified by Carlotto Richardson Prof. Eng. State Pa. Reg. No. 016297-E
 Stress analysis report certified by Krishna Pal Singh Prof. Eng. State Pa. Reg. No. 20906-E

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

Date Aug 27 19 76 signed Joe. Out Corp By John P. Binkert
 (Manufacturer) (Inspector)

Certificate of authorization Expires Sept. 30, 1976 Certificate of Authorization No. 630

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Joseph Out Corporation at Camden, New Jersey
 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 Pa. and employed by H.S.B.I. & I Co. of Hartford, Conn.

have inspected the pressure vessel described in this Manufacturer's Data Report on August 23 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

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

Date August 27 19 76
Walter J. Connors Inspector's Signature
 Commission NB 4438 Pa 1786
 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 _____

_____ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psi.

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

Date _____ 19 _____
 Inspector's Signature _____
 Commission _____
 National Board, State, Province and 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 Date 11-8-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 Sheet 1 of 2

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address
MWR #023895
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Recirculation Spray

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 is 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)
2RSS-E21C	Joseph Oat Corp.	2189-1C	892	Vertical Heat Exch	1976	Repaired	Yes

7. Description of Work: Plugged and seal welded two tubes

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure " psi Test Temp. " °F
 *LP, OST 2.30.13

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-1 form 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 _____ 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 Nov. 12 19 93
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 this Owner's Report during the period 10/11/93 to 11/12/93 and state that the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] *Factory Mutual Engr. Assn.
Inspector's Signature Commissions UB 8314 ANI-82245
National Board, State, Province, and Enforcements

Date Nov 12 19 93

FORM N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS
As required by the provisions of the ASME Code R-1

1. Manufactured by Joseph Oat Corporation, Camden, New Jersey
(Name and address of Manufacturer)
2. Manufactured for Duquesne Light Co., Beaver Valley Unit #2 Shippingport, Pa
(Name and address of Purchaser)
3. Type VERT. Kind Heat Ex. Vessel No. (2189-1C) (Serial No.) (Name & Base No.) Nat'l Bd. No. 892 Yr. Built 1976
(Type, Jacketed, Heat Ex.) (Name & Base No.)
3a. Applicable ASME Code Section III, Edition 1971 Address date SUMMER 72 Case No. _____
Class 2

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell Material SA240-304 75,000 Nominal Thickness 3/8 Corrosion Allowance 0 in. Dia. 2 ft. 1 1/8 Length 36 ft. 7 3/8 in. 5 to 5
(Kind & Spec. No.) (Min. of range specified)
5. Seams: Long OBL Butt Welded H.T. NO R.T. Complete Efficiency 100 %
Short OBL Butt Welded H.T. NO R.T. Complete No. of Courses 5
(Welded, Blt., Staggered) (Yes or No)
6. Heads (a) Material T.S. (b) Material T.S.
Location Thickness Crown Radius Elliptical Ratio Center Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Convex or Concave)
(a) _____
(b) _____
7. Removable, bolts used _____
(Material, Spec. No., T.S., Size, Number) Other fastening _____
(Describe or attach sketch)

8. Design Pressure 250 psi at 250 °F at temp. of _____
Cherry Impact _____ ft-lb Hydrostatic or _____
Combinations _____ Test Pressure 408 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheet Stationary. Material SA240-304 Dia. 34 in. Thickness 1 1/2 in. Attachment Welded
(Kind & Spec. No.) (Subject to press.) (Welded, Blt.)
Flashing Material _____ Dia. _____ in. Thickness _____ in. Attachment _____
(Kind & Spec. No.)

10. Tubes Material SA249-304 5/8 in. Thickness 20 Number 1148 Type Straight
(Kind & Spec. No.) (Inches or gage) (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 SA515 70,000 Nominal Thickness 7/16 Corrosion Allowance 1/8 in. Dia. 2 ft. 9 1/8 Length 2 ft. 3 1/2 5 to 5
(Kind & Spec. No.) (Min. of range specified)

12. Seams: Long OBL Butt Welded H.T. YES R.T. Complete Efficiency 100 %
Short OBL Butt Welded H.T. YES R.T. Complete No. of Courses 1 Each End
(Welded, Blt., Staggered) (Yes or No)

13. Heads (a) Material SA515 70,000 (b) Material T.S. (c) Material T.S.
Location Thickness Crown Radius Elliptical Ratio Center Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Convex or Concave)
(a) Top, bottom, ends 2 1/2 _____
(b) Channel _____
(c) Flashing _____

1 Studs (SA193-87) (125,000) (3/4) (36) Each End Nuts (SA194-2H) (3/4) (72) Each End
Removable, bolts used (a) _____ (b) _____ (c) _____
(Material, Spec. No., T.S., Size, Number) Other fastening _____
(Describe or attach sketch)

14. Design pressure 150 psi at 250 °F at temp. of _____
Cherry Impact _____ ft-lb Hydrostatic or _____
Combinations _____ Test Pressure 225 psi

¹ If Factory Heat-Treated
² Also other internal or external pressure with elevated temperature where applicable.

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets Number _____ Size _____ Location _____ In piping _____

16. Nozzles

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement	How Attached
Inlet, outlet	2 (1 ea)	16"	Pipe	SA 538	SCH 40	SA 515-70	Welded
Drain	1	1"	Coll.	SA182-304	3000#	None	Welded
Inlet, outlet	2 (1 ea)	12"	Pipe	SA240-304	3/8	SA240-304	Welded
		12"	Pipe	SA312-304	SCH 40	None	Welded

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

Openings Handholes, No. _____ Size _____ Location _____

Threaded, No. 2 Size 1/4" Location 1 top & 1 bottom tubesheet

2 (1 ea) 3/4" + 1" in top and bottom Channel Covers

18. Supports Skt. No. _____ Lugs No. _____ Legs No. _____ Other _____ Attached _____ Shall welded _____

(Type or Size) (Number) (Number) (Description) (Where & How)

19. Remarks: Vessel is a recirculating spray cooler.

Shell Inlet and outlet nozzles are conical.

Inlet is 16" X 12" Outlet is 14" X 12"

OAL 42"

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

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

Stress analysis report on file at Stone & Webster Eng., Boston, Mass.

Design specifications certified by Carlotto Richardson Prof. Eng. State Pa. Reg. No. 016297-E

Stress analysis report certified by Krishna Pal Singh Prof. Eng. State Pa. Reg. No. 20906-E

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

Date Aug 20 19 76 Signed Joseph Oat Corp By John H. Buehler

(Manufacturer) (Inspector)

Certificate of authorization Expires Sept. 30, 1976 Certificate of Authorization No. 630

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Joseph Oat Corporation at Camden, New Jersey

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 Pa. and employed by H.S.B.I. & I Co. of Hartford, Conn.

have inspected the pressure vessel described in this Manufacturer's Data Report on August 23 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

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

Date August 23 19 76

Walter S. Conroy Inspector's Signature

Commission NB 4438 Pa 1786 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 _____

_____ included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Penetrant 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 _____ Commission _____ National Board, State, Province and 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
One Oxford Centre - Pittsburgh, PA 15279
Address

Date 11-22-93
 Sheet 1 of 2

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2
 MWR Nos. 023749 016585
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 Reactor Coolant

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 is 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)
2RCS-SG21A	Westinghouse	DMGT-1961	W-16598	A-Steam Generator	1977	Repaired	Yes

7. Description of Work Replaced bolting and plugged tubes. See remarks

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-1 form attached. Replaced #6 cold leg stud (2AC-6). Replaced
studs and nuts at 2AH-4, 2AC-4 and 2AC-15. Replaced nuts only at 2AH-5
and 2AH-6. Mechanically plugged 34 tubes (hot and cold legs).
See MWR for list.

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] Date December 13 19 93
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 this Owner's Report during the period 2-8-93 to 12-13-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NS 5314 N.I. P. 2001
Inspector's Signature National Board, State, Province, and Endorsements

Date December 13 19 93

FORM 8-1-B CERTIFICATE HOLDING DATA REPORT FOR MARINE VESSELS*

As Required by the President of the UNITED STATES OF AMERICA

1. Manufactured by WESTERN STEEL & PIPE WORKS, Inc., Bridgeport, PA
 (Name and address of Manufacturer)
 2. Manufactured by Pressure Light Company - Bridgeport, PA
 (Name and address of Manufacturer)
 3. Type Vertical and Steam vessel No. 1528-1963 Gross Tonn. N/A Net Tonn. 1650 Date 1977
 (Type, material, class, etc.) (Type, material, class, etc.) (Gross Tonnage) (Net Tonnage)
 2a. Application Filed Under Section 81, Statute 1977 Approved Date 3 '77 Case No. 1528 1963
 (Date) (Date)

Items 4-6 inclusive to be completed for single hull vessels, portions of jettisoned vessels, or shells of hull exchanges.

4. Shell Material SASSI S^A C11 T.S. 80,000 Hull, Tonn. 3 in. Deck 0 R. 0 in. Length 0 x 0 ft.
 (Kind & Spec. No.) (Tonnage of cargo equipment)
 5. Section Long Void Bil Bulk H.T. Full R.T. Full Efficiency 100
 (Type) (Type) (No. of Courses) 6
 6. Results of Material SASSI S^A C11 T.S. 80,000 (Kind & Spec. No.) (Tonnage)

Location	Thickness	Grain	Corrosion	Welding	Structural	Control	Manufacturing	Post	State
in Test, section, end		Analysis	Analysis	Analysis	Analysis	Analysis	Analysis	Analysis	in Pressure
in Test	<u>1.62</u>	<u>--</u>	<u>--</u>	<u>2.1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>--</u>	<u>Control</u>
in Character									

 If appropriate, both ends None (Kind & Spec. No., T.S. Spec. Number) Other Testing None (Type, Date or Serial Number)

7. Joint Class N/A (Description as given to vessel, but, etc. If test, give dimensions, location, or details)
 8. In Design Pressure 1085 psi of 600 °F In Min. Pressure-Test Temp. 120 °F Min. Shell
 In Pressure, Hydrostatic, or Construction Test Pressure 1363 psi In Max. Shell

Items 9 and 10 to be completed for tank vessels.

9. Tank Shell Boundary Material SASSI C11 Spec. 125 TS in. Thk. 21.03 in. Arrangement Welded
 (Kind & Spec. No.) (Material or grade) (Working surface)
 Floating Material None in. Thk. None in. Arrangement
 (Kind & Spec. No.) (Material or grade)
 10. Tank Material SA-216 C.S. 875 in. Thk. 0.98 in. or gap None Number 1100 Type U
 (Kind & Spec. No.) (Material or grade) (Material or grade) (Material or grade) (Type)

Items 11 to 14 inclusive to be completed for lower chambers of jettisoned vessels or elements of hull exchanges.

11. Shell Material SA-216 T.S. 70,000 Hull, Tonn. 3 in. Deck 0 R. 0 in. Length 0 x 0 ft.
 (Kind & Spec. No.) (Tonnage of cargo equipment)
 12. Section Long Void Bil Bulk H.T. Full R.T. Full Efficiency 100
 (Type) (Type) (No. of Courses)
 13. Results of Material SA-216 T.S. 70,000 (Kind & Spec. No.) (Tonnage)

Location	Thickness	Grain	Corrosion	Welding	Structural	Control	Manufacturing	Post	State
in Test, section, end		Analysis	Analysis	Analysis	Analysis	Analysis	Analysis	Analysis	in Pressure
in Character	<u>5.19</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>--</u>	<u>Control</u>
in Floating									

 If appropriate, both ends None (Kind & Spec. No., T.S. Spec. Number) Other Testing None (Type, Date or Serial Number)
 14. In Design Pressure 2405 psi of 600 °F In Min. Pressure-Test Temp. 120 °F Min. Shell
 In Pressure, Hydrostatic, or Construction Test Pressure 3163 psi In Max. Shell

*If jettisoned hull-exchange, *List other vessels or component elements with appropriate identification when applicable.
 *Supplemental sheets in terms of test, analysis, or drawings may be used provided (1) they do not exceed 11 in. x 17 in. (2) they are made of steel or aluminum (3) they are made of the same material as the vessel or element and the material of sheet is indicated in item 14. Revisions of this data report is indicated on each sheet and (4) each sheet is numbered and the number of sheets is indicated in item 14. Revisions of this data report is indicated on each sheet and (4) each sheet is numbered and the number of sheets is indicated in item 14. Revisions of this data report is indicated on each sheet and (4) each sheet is numbered and the number of sheets is indicated in item 14.
 This form approved and is required when the Order Form, ADMR, 305 S. 47th St., New York, N.Y. 10014

ASME B-1 (Rev. 10-6-67)

These tables to be completed for all vessels where applicable.

PROVIDED BY OTHERS

16. Safety Vessels: _____ Material: _____ Location: _____
16. Inspection
- | Number | Spec. or Size | Type | Material | Thickness | Attachment | How Attached | |
|-----------------|---------------|--------|----------|------------|------------|--------------|------------|
| Primary Inlet | 1 | 11.00" | Weld End | S4216 BRWC | 1.5" | S4216 BRWC | Integrally |
| Primary Outlet | 1 | 11.00" | Weld End | S4216 BRWC | 1.5" | S4216 BRWC | Integrally |
| Steam Outlet | 1 | 29.00" | Weld End | S4216 C12 | 1.5" | S4216 C12 | Welded |
| Feedwater Inlet | 1 | 14.00" | Weld End | S4216 C12 | 1.5" | S4216 C12 | Welded |
17. Inspection Markings
- | No. | Size | Location |
|-----|------|------------------------------------|
| 4 | 16 | (X) Chamber & (X) Lower Shell |
| 2 | 6 | Stub Barrel portion of Lower Shell |
| 4 | 2 | Stub Barrel portion of Lower Shell |
18. Supports: Four (4)
- | No. | Support | Location | Attachment |
|-----|---------|------------|-----------------|
| 1 | Leg | Triangular | Integrally Cast |
19. Remarks: The signing of the shop inspection portion of the Data Report is based on the preliminary B-1 Data Report signed by R. Lacey, NS2582, SA NC2581. The Certificate of Field Assembly Inspection is to document the field hydro's and subsequent RT examination.

(Brief description of service for which vessel was designed.)

20. Application of ASME stamp.

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

Date: Aug 6, 1986 at Wassinhovon Electric Corp.
(City or town) (State)

Certificate of Authorization Expires: March 11, 1989 Certificate of Authorization No. N-444

CERTIFICATION OF DESIGN

Design information on file at Wassinhovon Electric Corporation, NEB, Passaic, NJ

Stress analysis report on file at Wassinhovon Electric Corporation, NEB, Passaic, NJ

Design qualifications certified by: H. J. Sylvester Prof. Eng. Stamp PA Reg. No. 15441-8

Stress analysis report certified by: G. J. Green Prof. Eng. Stamp A Reg. No. 31283

CERTIFICATE OF SHOP INSPECTION

Vessel made by Wassinhovon Electric Corporation at Passaic, NJ

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PA and employed by Lombardine & Co., Inc. at Lombardine, IL have inspected the pressure vessel described in this Manufacturer's Data Report on 8-11-86 and found that, to the best of my knowledge and belief, the N. C. Member has constructed this pressure vessel in accordance with the ASME Code, Section III.

By signing this certificate whether the inspector for his employer makes any warranty, expressed or implied, concerning the pressure vessel 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: August 11, 1986 at PA NC 2281

W. T. Jones Inspector NB 7245 N. C. 754

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PA and employed by Lombardine & Co., Inc. at Lombardine, IL have inspected the assembly of this Data Report with the described pressure vessel and deem that parts referred to in this report not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the N. C. Member has constructed and assembled the pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and exhibited to a hydrostatic test under conditions set of ASME Code.

By signing this certificate whether the inspector for his employer makes any warranty, expressed or implied, concerning the pressure vessel 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: August 11, 1986 at PA NC 2281

W. T. Jones Inspector NB 7245 N. C. 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 Date October 25, 1993
Name
One Oxford Centre, Pittsburgh, PA 15279 Sheet 1 of 1
Address
2. Plant Beaver Valley Power Station Unit BVPS Unit 2
Name
Shippingport, PA 15077 DCP #1805 MWR 009678
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Duquesne Light Company Type Code Symbol Stamp _____
Name Authorization No. _____
Shippingport, PA 15077 Expiration Date _____
Address
4. Identification of System Reactor Coolant System
5. (a) Applicable Construction Code ASME III 19 77 Edition, Summer 79 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements R3E-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-PCV456	Garrett Pneumatic	P-119	---	PORV	1983	---	Yes
Seat Ring	Crosby Valve & Gage Co.	---	---	Inconel 718	1991	Replacement	No

7. Description of Work Replace the stellite seat rings in 2RCS-PCV-455C,D and 456 with Inconel 718 seat rings.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 * OST 2.6.1, 2.6.8

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/4 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)

Machined plug .003". NPV-1 form attached.

9. Remarks

Applicable Manufacturer's Data Reports to be attached

The data written in Items 1 through 9 inclusive has been prepared by
DLC Nuclear Engineering Department.

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Francis W. Conner P.E. Sr. engineer Date Oct. 27 19 91
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 Massachusetts and employed by Factory Mutual Insurance Co. of Worcester, Mass. have inspected the components described in this Owner's Report during the period 5-8-92 to 12-3-93, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NSB314 and NIP2245
Inspector's Signature National Board, State, Province, and Endorsements

Date December 3 19 93

1. Manufactured by Garrett Pneumatic Systems Division, P. O. Box 5217, Phoenix, AZ 85010
(Name and Address of 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 Outlet Size 6.0
(inch) (inch)

(a) Model 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 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)						
(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 psi 650 °F or Valve Pressure Class N/A
(Pressure) (Temperature)
 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	SA182 Grade F316	Coulter Steel & Forge	RR #623264
Made from		1494 67th St.	HT #15772
3751030-1		Emeryville, CA 94662	RR #603484
Bonnet Forging		N-1189	HT #15771
3751042-1 Plug	SA479 Grade F316	Coulter Steel & Forge	RR #656907
Made from steel		Same as above	HT #616448
bar material		QSC-266	
#9-9939			

(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) Bolting 3751036-1 Nut	SA194 Grade 6	Lonestar Screw Co P.O. Box 15211, 5826 Houston, TX QSC-389	RR #758095 RR #632574 RR #632576 HT #27765
3751036-3 Nut	SA194 Grade 6	Lonestar Screw Co Same as above QSC-389	RR #758093 RR #632575 HT #23751
3751046-2 Stud	SA453, Grade 660 Class A, Type 2	Lonestar Screw Co Same as above QSC-388	RR #758737/758091 HT #C10926-4/HT#C109
(d) Other Parts			
Welding Rod	SFA 5.13 C1	Johnston Stainless	RR #611945
Material #9-9937 (used on 3751042-1 Plug)	Class RCOCR-A	Welding Rods 10140 Romandel Ave. Santa Fe Springs, CA 90670 QSC-285	HT #5027-10 RR #749649 HT #3E15-2

B. 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. 9, 1983
 Signed Garrett Pneumatic Systems Division by [Signature]
(In Certificate Holder)
 Our ASME Certificate of Authorization No. N-2516 to use the N (N) 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 Arizona Reg. No. 11734
 Part Number 3750014 Rev J
 Serial Numbers P-119, P-121 and P-122
 Purchase Order 546CCW454805 BN
 (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 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, 1983 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.
[Signature]

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 12/3/93
Sheet 1 of 3

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2
MWR # 016588
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 Reactor Coolant

5. (a) Applicable Construction Code Section III, 71 Edition, S'72 Addenda, See N-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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.	Order Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2RCS-SG21C	Westinghouse	DMGT-1963	W-16600	C - Steam Generator	1977	Repaired	Yes

7. Description of Work Replaced bolting and plugged tubes. See remarks.

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-1 form attached. Replaced studs and nuts at 2CC-3 and 2CH-14.
Mechanically plugged 29 tubes (hot and cold leg). Two tubes had plugs
replaced with leak limiting oriface plugs. See MWR for list.

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] Date January 26 1994
Owner or Owner's Designee, Title Senior Eng

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 July 8, 93 to July 28, 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 NA8314 ANI 82245
Inspector's Signature National Board, State, Province, and Endorsements

Date July 8 1994

FORM B-1 N CEI HEATE HOLDERS DATA REPORT FOR "LEAK VESSELS"

Administered by the Protection of the ASME Code Rules, Section III, Div. 1

1. Manufactured by Westinghouse Electric Corporation, Nuclear Components Division
Scenic Highway, Route U.S. 90, Pensacola, FL 32514
 (Name and address of Manufacturer)
 2. Manufactured for Quincy Light Company - Beaver Valley #2, Shippingport, PA
 (Name and address of Purchaser)
 3. Type Vertical Steam Generator Model 51 Vessel No. DMGT-1963 CRN No. N/A NERT No. W-16600
 (Name, or type) (Code, location, heat ex.) (ASME Serial No.)
 3a. ASME Code: Section III, Subsec. 1971 Approved date 3 '72 Case No. 1528 1355
1526 1491
1684

Items 4-6 inclusive to be completed for single heat vessels, details of attached vessels, or sheets of heat exchangers.

4. Shell: Material SA533 Gr A Cl 1 T.S. 80,000 Nom. Thk. 0.25 in. Cor. Allow. 106 in. Diam. 0 in. Length 0 in.
 (Kind & Spec. No.) (Min. of range specified)
 5. Seams: Long Weld OBI BUSS H.T. Full R.T. Full Efficiency 100
Grnd Weld OBI BUSS H.T. Full R.T. Full No. of Courses 6
 6. Heads: (a) Material SA533 Gr A Cl 1 T.S. 80,000 (b) Material _____ T.S. _____
 Location (top, bottom, end) Thickness Crown Radius Elliptic Ratio Contour Radii Non-spheroidal Radius Flat Cham. Side to Flat corner or fillet
 (a) TOP 3.62 -- -- 2:1 -- -- -- CONCAVE
 (b) _____
 If removable, bore used _____ Other opening _____
 (Material, Spec. No., T.S., Size, Number) (Description of vessel or sheet)

N/A 7. Jacket Closure _____ (Describe as open or closed, or give dimensions, diameter, or length)
 8. (a) Design Pressure 1085 psig or 600 psia (b) Min. Pressure-Test Temp. 120 °F Minimum
 (c) Pressure, Hydrostatic or Combination Test Pressure 1367 psig 150 psia Maximum

Items 9 and 10 to be completed for tube sheets.

9. Tube Sheet: Stationary: Material SA508 L 2 Diam. 125.78 in. Thk. 21.03 in. Attachment Welded
 (Kind & Spec. No.) (Radius to prob.)
 Floating: Material _____ Diam. _____ in. Thk. _____ in. Attachment _____
 10. Tubes: Material S8-163 O.D. 1.75 in. Thk. .050 in. or less 1384 Type U
 (Kind & Spec. No.) 10x5 & Plugged Straight

Items 11 to 14 inclusive to be completed for inner chambers of "leak vessels" or sheets of heat exchangers.

N/A 11. Shell: Material _____ T.S. _____ Nom. Thk. _____ in. Cor. Allow. _____ in. Diam. _____ in. Length _____ in.
 (Kind & Spec. No.) (Min. of range specified)
 12. Seams: Long Weld OBI BUSS H.T. Full R.T. Full Efficiency _____
Grnd Weld OBI BUSS H.T. Full R.T. Full No. of Courses _____
 13. Heads: (a) Material SA-216 T.S. 70,000 (b) Material _____ T.S. _____ (c) Material _____ T.S. _____
 Location Thickness Crown Radius Elliptic Ratio Contour Radii Non-spheroidal Radius Flat Cham. Side to Flat corner or fillet
 (a) Top, bottom, end _____
 (b) Channel 5.19 -- -- -- -- 62.81 -- CONCAVE
 (c) Floating _____
 If removable, bore used _____ Other opening _____
 (Material, Spec. No., T.S., Size, Number) (Description of vessel or sheet)

14. (a) Design Pressure 2485 psig or 650 psia (b) Min. Pressure-Test Temp. 120 °F Minimum
 (c) Pressure, Hydrostatic or Combination Test Pressure 3107 psig 250 psia Maximum

111 positions heat-treated. 1 List other material or internal pressure with subsequent requirements when applicable.
 *Supplemental sheets in form of 100s, sketches, or drawings may be used provided: (1) they are 100 in. x 11 in.; (2) information on them is included in this Data Report; and (3) each sheet is numbered and the number of sheets is recorded in item 10. Remarks

Name of the contractor for all vessels under construction

PROVIDED BY OTHERS

15. Safety Valve Outlets: Number _____ Size _____ Location _____

16. Nozzles:

Nozzle (Inlet, Outlet, Drain)	Number	diam. or Size	Type	Material	Thickness	Joining Method	Notes
Primary Inlet	1	31.00"	Weld End	SA216 GrWC	1.5"	SA216 GrWC	Integr
Primary Outlet	1	31.00"	Weld End	SA216 GrWC	1.5"	SA216 GrWC	Integr
Steam Outlet	1	29.00"	Weld End	SA508 Cl2	1.5"	SA508 Cl2	Welded
Feedwater	1	14.00"	Weld End	SA508 Cl2	.840"	SA508 Cl2	Welded

17. Inspection Manholes: No. 4 Size 16 Location (2) Chamber & (2) Upper Shell

Openings: Manholes: No. 2 Size 6 Location Scub Barrel portion of Lower Shell

Threading: No. 4 Size 2 Location Scub Barrel portion of Lower Shell

18. Supports: Skirt No. 4 Leg Trunnions (Number) 4 Leg (Number) 4 Other (Description) Attached Integrity (Where & How)

19. Remarks: The signing of the shop inspection portion of the Data Report is based on the preliminary N-1 Data Report signed by R. Leroy, NB7587, PA WC2231. The Certificate of Field Assembly Inspection is to document the field hydro's and subsequent MT examination.

20. Application of ASME nameplate.

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

Date Aug 6, 1986, 19 _____ Signed Westinghouse Elec Corp. (N. Carolina Member) [Signature]

Certificate of Authorization Expires March 11, 1989 Certificate of Authorization No. N-1669

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corporation, NCD, Pensacola, FL

Stress analysis report on file at Westinghouse Electric Corporation, NCD, Pensacola, FL

Design specifications certified by R. L. Sylvester Prof. Eng. State PA Reg. No. 15441-E

Stress analysis report certified by O. J. Green Prof. Eng. State FL Reg. No. 31085

CERTIFICATE OF SHOP INSPECTION

Vessel made by Westinghouse Electric Corporation at Pensacola, FL

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of LA/PA and employed by LUBBERSMAN MFG. CO. CO. of LONG GROVE, IL have inspected the pressure vessel described in this Manufacturer's Data Report on 9-11-, 1986 and state that, to the best of my knowledge and belief, the N. Carolina Member has constructed this pressure vessel in accordance with the ASME Code, Section III.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this N. Carolina Member'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 SEPTEMBER 11, 1986 [Signature] PA WC 2281

W. Y. Jones [Signature] Commissioner NB7345 N 6A754 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 the State or Province of LA/PA and employed by LUBBERSMAN MFG. CO. CO. of LONG GROVE, IL have compared the requirements in this Data Report with the described pressure vessel and state that parts referred to in this report inspected by me and that to the best of my knowledge and belief of the N. Carolina Member has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrotest that and/or pneumatic test of 1357 / 3107 ps.

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

Date SEPTEMBER 11, 1986 [Signature]

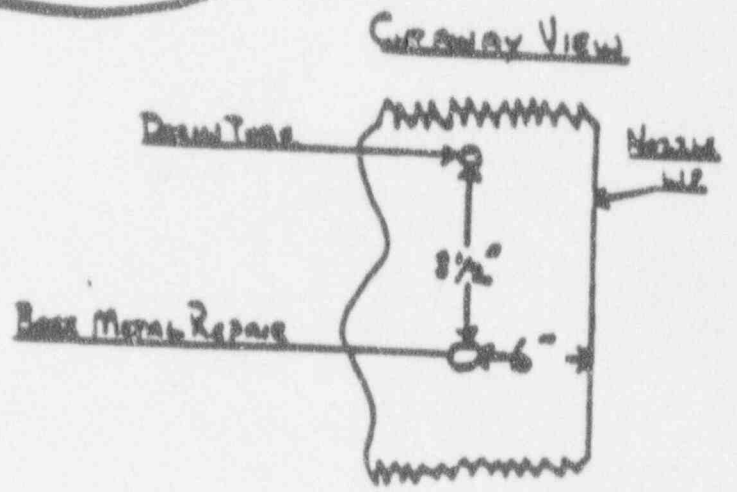
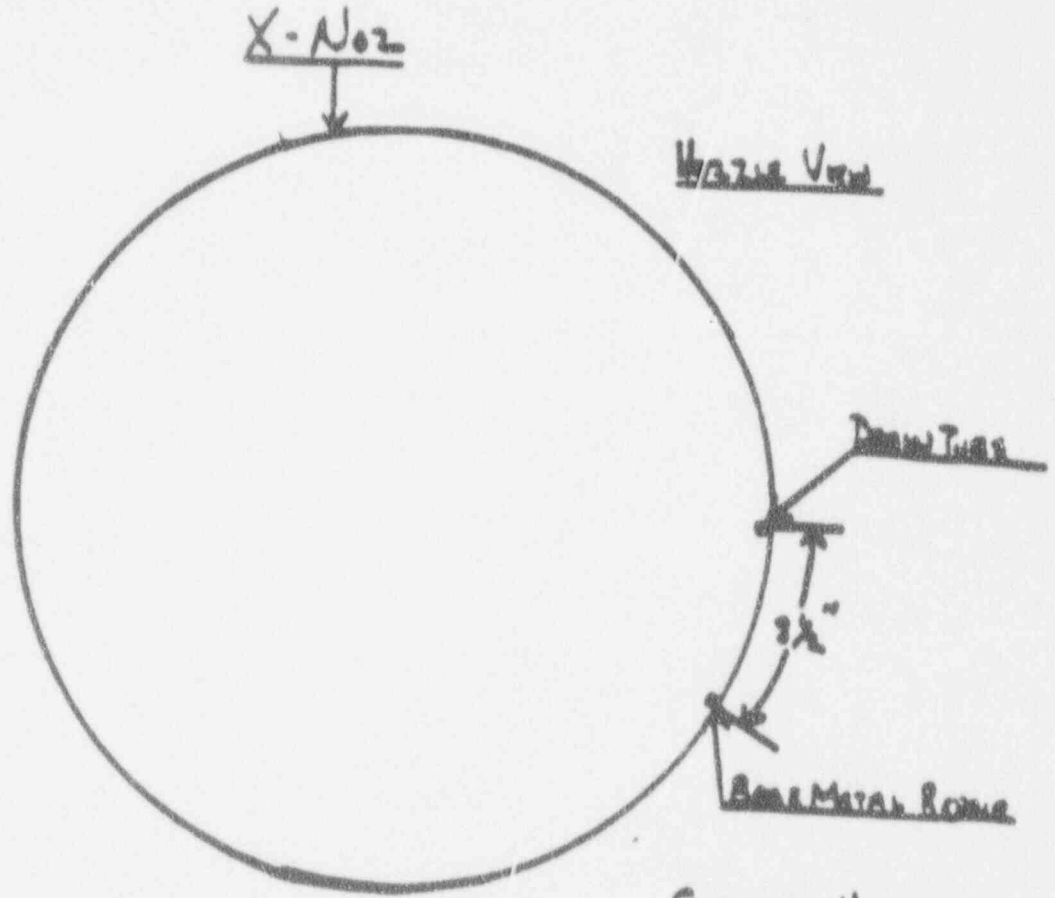
1. Manufactured by Westinghouse Electric Corporation, Nuclear Components Division
3500 E. High Road, Route U.S. 30, Pottsville, Pa. 17878
 (Name and address of Manufacturer)

2. Manufactured for Duquesne Light Company - Beaver Valley #2, Shippen/ADORE, PA
 (Name and address of Purchaser)

3. Type Vertical Kind Steam Generator Model SI
 (Make, or work) (Year, location, heat no.) Vessel No. DMGT-1963 CRN No. N/A NDT'1 Det. No. W-16600
 (Serial No.) (Serial No.) (Serial No.) (Serial No.) (Serial No.) (Serial No.)

3a. Authorized ASME Code Section III, Subsection 1971 Addressed date 8 '72 Code No. 1528 1355
1528 1493 Class 1
 1484

Bead Temper Repair 484643:



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 12/3/93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #025192
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Auxilliary Steam

5. (a) Applicable Construction Code Section III, § 71 Edition, S '73 Addenda, -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is B38-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Standard No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2ASS-AOVI30A	Masonellan	N-00228 -33-1	--	8" Globe Valve	1984	Repaired	yes

7. Description of Work: Replaced a body/bonnet stud and nut.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 *OST 2.47.3B

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 NPV-1 form attached. Stud and nut replaced as part of
normal maintenance trouble shooting of valve.

Applicable Manufacturer's Data Reports to be attached
repair or replacement

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 Engr. Date JANUARY 20 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 this Owner's Report during the period 11-18-93 to 1-26-94 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 E N 122271
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-26 19 94

FORM NPV-1 IN 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 Masonellon Div., McGraw-Edison Co., 63 Mahatan St., Norwood, MA 02062
(Name and Address of 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 8" Outlet Size 8"
(Inch) (Inch)

(a) Model No. or Type	(b) Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Net'l. Bd. No.	(g) Year Built
	38-61911	N00228-33-1	NA	A9232-D	3	MA 1984
(1)						
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. P.O. No. 12247 Water Tag No. 2ASS-AOV130A
(a) Description of service for which equipment was designed:

6. Design Conditions 165 psia 370 °F or Valve Pressure Class NA (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 275 ps at 180°F.
 8. Pressure Retaining Parts

Mark etc.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
E5793-1	ASME SA 216 GR WCB	Quaker Alloy	Body
E5832-1	ASME SA 216 GR WCB	Quaker Alloy	Bonnet
(b) Forgings			
NA			

RECEIVED
 MAR 1 1984
 Stone & Webster
 Engineering Corporation
 Lancaster, PA

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches or drawings may be used provided (1) one is 8 1/2" x 11", (2) information in Rules 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.
 6/8/77
 This form is 692071 may 11 obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Rev. 6)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
JB7-AGS	ASME SA 193 GR B7	B & G Co.	Studs
J2H8-AEL	ASME SA 194 GR 2H	B & G Co.	Nuts
(d) Other Parts			
1G3886-1	ASME SA 479 TP 316	Cyclops Corp.	Plug

B. Hydraulic test 425 psi. Disk Differential test pressure Not psi.
 Req'd

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.

Address Sussex 1173, Code Case No. NA, Date NA

Signed Masonellan Div., McGraw-Edison Co. by B.H. Baker 2/6/84
(If Certificate No. 101)

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 Masonellan 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 M.S.B.I. & I. Co. of Hartford, CT have inspected the pump, or valve, described in this Data Report on February 6, 1984, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date February 6, 1984
John E. Chan Inspector
 Commission Mass 871 No. WC 2846
(Don't list State Prov. and 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 Date 12/3/93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address
 2. Plant Beaver Valley Power Station Unit No. 2
Name MWR #025193
Shippingport, PA 15077 Address Repair Organization P.O. No., Job No. etc.
 3. Work Performed by DlCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address

4. Identification of System Auxilliary Steam
 5. (a) Applicable Construction Code Section III 19 71 Edition, 5 '73 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)
2ASS-AOV130B	Masoneilan	N-00228 -33-2	--	8" Globe Valve	1984	Repaired	yes

7. Description of Work Replaced two body/bonnet studs and nuts.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 *OST 2.47.3B

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks NPV-1 form attached. Studs and nuts replaced as part of
Applicable Manufacturer's Data Reports to be attached
normal maintenance trouble shooting of valve.

CERTIFICATE OF COMPLIANCE

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

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

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

Signed [Signature] Senior Engr Date JANUARY 25 19 94
Owner or Owner's Designer, 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 this Owner's Report during the period 11-18-93 to 1-26-94 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 T N P 3374
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-26 19 94

FORM NPV-1 IN 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 Masonellon Div., McGraw-Edison Co., 63 Mahatan St., Norwood, MA 02062
(Name and Address of Manufacturer)
 2. Manufactured for Rising & 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 8" Outlet Size 8"
(Inch) (Inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Id No.	(g) Year Built
NA-41911	N00228-33-2	MA	A9232-D	3	NA	1954

5. P.O. No. 12347 Water Tag No. 2ASS-AOV130B
(Brief description of service for which equipment was designed)

6. Design Conditions 165 psi 370 °F or Valve Pressure Class NA (1)
Pressure Temperature
 7. Cold Working Pressure 275 psi at 100°F.
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
<u>PS793-2</u>	<u>ASME SA 216 GR WCB</u>	<u>Quaker Alloy</u>	<u>Body</u>
<u>PS832-2</u>	<u>ASME SA 216 GR WCB</u>	<u>Quaker Alloy</u>	<u>Bonnet</u>

(b) Forgings			
<u>NA</u>			

RECEIVED
 MAR 1 1954
 Rising & Webster
 Engineering Corporation
 Department Business

(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.

Stock No.	Material Spec. No.	Manufacturer	Remarks
Oil Bolting			
J87-AGS	ASME SA 193 GR B7	B & C Co.	Studs
J2HB-AEL	ASME SA 194 GR 2H	B & C Co.	Nuts
Oil Other Parts			
1G3886-2	ASME SA 479 TP 316	Cyclops Corp.	Plug

8. Hydrostatic test 425 psi. Shot Differential test pressure Not psi
 Req'd

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 Power Plant Co. Section III, Div. 1, Edition 1971
 Addenda Summary 1973 Code Case No. NA Date NA
 Signed Masonilan Div., McGraw-Edison Co. by B.H. Baker 2/6/84
(In Certificate Holder's Name)
 Our ASME Certificate of Authorization No. H-1836 to use the H symbol expires 8/19/86
(Date)

CERTIFICATION OF DESIGN

Design information on file at Masonilan Div., McGraw-Edison Co.
 Stress analysis report (Class Y 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 INSPECTION

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.H.I. & I. Co. of Hartford, CT have inspected the pump or valve described in the Data Report on February 8 1984 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.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date February 8 1984
John B. Carson (Signature)
 Commission Mass 871 Pa WC 2846
(Don't list State Prov. and 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 Date 12/3/93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 1 of 3
Name
Shippingport, PA 15077
Address Unit No. 2
 MWR 010162
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Chemical and Volume Control

5. (a) Applicable Construction Code Section III 19 71 Edition S'72 Addenda -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2CHS-AOV200B	Fisher Controls	5726056	2369	2" Globe Valve	1977	Repaired	Yes
--	Fisher Controls	LC4127-1	--	Bonnet	1993	Replacement	YES

7. Description of Work: Replaced valves bonnet and the body/bonnet studs & nuts.

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

* 2BVT 1.47.5, 2BVT 2.47.3B

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks

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.

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 Date Feb 7 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 10-11-93 to 2-8-94 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] Inspector's Signature Commission "I" "N" P 19274 National Board, State, Province, and Endorsements

Date 2-8 19 94

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 Fisher Controls Co., P.O. Box 190, Marshalltown, Iowa 50158
Name and address of Manufacturer or party

b) Manufactured for Westinghouse Elec. Corp., P.O. Box 355, Pittsburgh, PA 15230
Name and address of Manufacturer of completed nuclear component

2. Identification-Manufacturer's Serial No. of Part 5726056 Part Id. No. N/A

a) Constructed according to Drawing No. See Page 2 Drawing Prepared by Fisher Controls Company

b) Description of Part Inspected See Page 2

(c) Applicable ASME Code Section III, Edition 1971, Addenda date Summer, 1972, Case No. N/A Class 2

Lutdown Orifice Line Isolation

To 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 the Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 3/18 1972 Signed Fisher Controls Company By Michael R. M. [Signature]
(Manufacturer)

Certificate of Authorization Expires 11-18-80 Conditions of Authorization No. 1930

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Fisher Controls Company

Stress analysis report on file as N/A

Design specifications certified by Henry P. Leonard Prof. Eng. State PA Reg. No. 23838-E

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

CERTIFICATE OF SHOP INSPECTION

As a valid recognition issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Iowa and employed by Hartford S.A. & I. Company of Hartford, CT have inspected the part of a pressure vessel described in this Manufacturer's Pencil Data Report on July 17 1972 and since 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 shall be liable, covering the part described in this Manufacturer's Pencil 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 the inspection.

Date July 17 1972

[Signature] Commissioner 753 Iowa
(Inspector's Signature) National Board, State, Province and No.

*ASME Code Section III, Part 1, Subpart (b) drawings may be used provided they are in accordance with the Code and are numbered and number of sheets is recorded in Form N-2.

2CHS-10
D120478

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 Fisher Controls Int'l Inc., 205 S. Center St., Marshalltown, IA 50158
(name and address of NPT Certificate Holder)
- 2. Manufactured for Equipment & Controls Inc., Box 12895, Pittsburgh, PA 15241
(name and address of purchaser)
- 3. Location of installation Beaver Valley Unit #1, Shippingport, PA 15077
(name and address)
- 4. Type 36A0475 Rev. B SA-351-CF8M 70.0 KSI N/A 1993
(drawing no.) (mat. spec. no.) (tensile strength) (CRN) (year built)
- 5. ASME Code, Section III: 1971 Summer 1972 2 N/A
(edition) (ar.enda date) (class) (Code Case no.)
- 6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A - Revision N/A Date N/A
(no.)
- 7. Remarks: Design: ASME B&PVC, Sect III, 1971 edition, Summer 1972 Addenda, Class 2
Other: ASME B&PVC, Sect III, 1986 Edition, No Addenda, Class 2

Parts Are For Valve S/N 5726055-57

- 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	== == == Heat Number
(1) LC4127-1	ZV02 S/N 2
(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 2485 psi. Temp 650 °F. Hydro. test pressure 5400 at temp. °F
(when applicable)

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

(12/86)

CERTIFICATION OF DESIGN

Design specifications certified by Henry P. Leonard P.E. State PA Reg. no. 23938-E
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. 1930 Expires 11-18-95

Date 8-21-93 Name Fisher Controls Int'l Inc. Signed Daniel Z. Drayton
(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 Iowa and employed by Hartford SBI & I Co. of Hartford, CONN have inspected these items described in this Data Report on 8-23-93 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. Each part listed has been authorized for stamping on the date shown above.

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

Date 8-23-93 Signed Kent Cuckey Commissions 822 IA.
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) state or prov. and no. 1)

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 12/3/93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 2. Plant Beaver Valley Power Station Sheet 1 of 4
Name
Shippingport, PA 15077 Unit No. 2
Address MWR 009680
Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DLCO - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
 4. Identification of System Chemical and Volume Control
 5. (a) Applicable Construction Code Section III 71 Edition S'72 Addenda -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2CHS-AOV200A	Fisher Controls	5726055	2368	2" Globe Valve	1977	Repaired	Yes

7. Description of Work Replaced valves body to bonnet bolting

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 * 2BVT 1.47.5 2BVT 2.47.3B

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks _____
 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 NPDPAP 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 Feb. 7 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 this Owner's Report during the period 11-27-93 to 2-8-94, 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 IN PA2274
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-8 19 94

FORM N-800X1 FACTORY DATA REPORT FOR "NUCLEAR PART AND APPURTENANCES"

As required by the Provisions of the ASME Code Rules

- 1. (a) Manufactured by Fisher Controls Co., P.O. Box 180, Marshalltown, Iowa 50188
(Name and address of firm fabricator of part)
- (b) Manufactured for Westinghouse Elec. Corp., P.O. Box 355 Pittsburgh, PA 15230
(Name and address of Manufacturer of component unit or equipment)
- 2. Identification-Manufacturer's Serial No. of Part 5728055 Ser'l Bd. No. N/A
- (a) Consulted according to Drawing No. See Page 2 Drawing Prepared by Fisher Controls Company
- (b) Description of Part Inspected See Page 2
- (c) Applicable ASME Code Section III, Edition 1971, Addenda date Summer, 1972, Case No. N/A Class 2

Ins from Orifice Line Isolation

To certify that the inspection made in this report was 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 Design Specification and Stress Report are the responsibility of the part Manufacturer. An appurtenance Manufacturer is responsible for insulating a tag. The Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.

Date 3/18 1980 Signed Fisher Controls Company by Michael J. McQuinn
(Inspector)

Certificate of Authorization Expires 11/18/80 Certificate of Authorization No. 1930

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Fisher Controls Company

Stress analysis report on file or N/A

Design specifications certified by Nancy P. Linnick Prof. Eng. State PA Reg. No. 23858-F

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

CERTIFICATE OF SHOP INSPECTION

I am a member of the National Board of Boiler and Pressure Vessel Inspectors and/or the State Board of Boiler and Pressure Vessel Inspectors and employed by WESTINGHOUSE S. S. I. A. I. COMPANY of Pittsburgh, PA. I have inspected the part of a pressure vessel described in this report and certify that it conforms to the ASME Code Section III and that the design and construction of the part conform to the ASME Code Section III. By signing this report, I am certifying that the component, equipment or material, described in the report is in accordance with the ASME Code Section III, and that the Inspector or his company shall be liable to the extent of the ASME Code Section III for any part of the vessel or appurtenance which is damaged or which of any kind coming from or connected with this inspection.

Date July 17, 1980
Michael J. McQuinn Inspector Michael J. McQuinn
(Inspector)

1. The original report is made of two parts, consisting of drawings that are not provided (30 days at 8 1/2" x 11") and information as shown in 1-2 on the back of the report. The report is provided and number of copies is indicated at reference at item 2, "Remarks".

84 DATA REPORT
ATTACHMENT 1

Sheet 2 of 2

1. INSTALLED BY: Johnson Power Corp., 126 Seventh Street, Pittsburgh, PA 15222
2. INSTALLED FOR: DUCQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PTT BLDG 908, PENNSYLVANIA 15276
3. IN CERTIFICATE HOLDER HAVING OVERALL RESPONSIBILITY: Stone & Webster Engineering Corp.
4. LOCATION OF INSTALLATION: Stone Valley Power Station, Unit-2, Shippensburg, PA 17077
5. SYSTEM IDENTIFICATION: Chemical Volume Control (CVS) 2-22-7-12-CVS YEAR INSTALLED 1987

Continued from Sheet 1

PARTS COMPONENTS & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Part, Components or Appurtenances	Name of Contractor	Serial No.	Canadian Reg. No.	Product Id. No.	Year Made	Remarks
1	T/8	Keretec Mfg.	BP31-10	N/A	5374	1975	110-238 (ITEM 1)
2	ZCHS4CV142	Rosemount Div.	800238-31	N/A	N/A	1988	110-238 (ITEM 2)
3	ZCHS4E23 (TYPE 519E)	Joseph Get Corp.	2355-4	N/A	930	1976	410-546 (ITEM 3)
4	VSS150-A-2	Keretec Mfg.	84E11-10	N/A	N/A	1979	410-546 (ITEM 4)
5	ZCHS4ADV300C	Fisher Controls	5726057	N/A	2370	1977	110-238 (ITEM 5)
6	ZCHS4ADV200A	Fisher Controls	5726055	N/A	2368	1977	110-238 (ITEM 6)
7	ZCHS4ADV200B	Fisher Controls	5726056	N/A	2369	1977	110-238 (ITEM 7)
8	VSS150-A-2	Keretec Mfg.	84E10-14	N/A	N/A	1979	410-546 (ITEM 8)
9	VSS150-A-2	Keretec Mfg.	84E17-14	N/A	N/A	1979	410-546 (ITEM 9)
10	VSS150-A-2	Keretec Mfg.	84E10-17	N/A	N/A	1979	410-546 (ITEM 10)
11	VSS150-A-2	Keretec Mfg.	84E10-1	N/A	N/A	1979	410-546 (ITEM 11)
12	VSS150-A-2	Keretec Mfg.	84E10-17	N/A	N/A	1979	410-546 (ITEM 12)
13	VSS150-A-2	Keretec Mfg.	84E10-12	N/A	N/A	1979	410-546 (ITEM 13)
14	VSS150-A-2	Keretec Mfg.	84E17-17	N/A	N/A	1979	410-546 (ITEM 14)
15	T/8	Keretec Mfg.	84E1-10	N/A	5888	1975	410-546 (ITEM 15)

Continued on Sheet 1


 Date: _____
 Name: _____
 Title: _____

FORM 270-4 (REVISED) ...

1. Identification ... P.O. Box 100, ...

Table with multiple columns and rows, containing various data points and headers.

2. ...

3. ...

Table with 4 columns: Name, Classification, Structure, Remarks. Contains several rows of data.

4. ...

FORM 474-C (Rev. 1-1-63)

Case No.	Warrent Case No.	Character	Remarks
20-1000	1A-103-100-0	James Bell	1st of Bell
20-1000	2A-100-0-0	James Bell	2nd of Bell
20-1000	3A-100-0-0	James Bell	3rd of Bell
20-1000	4A-100-0-0	James Bell	4th of Bell
20-1000	5A-100-0-0	James Bell	5th of Bell
20-1000	6A-100-0-0	James Bell	6th of Bell
20-1000	7A-100-0-0	James Bell	7th of Bell
20-1000	8A-100-0-0	James Bell	8th of Bell
20-1000	9A-100-0-0	James Bell	9th of Bell
20-1000	10A-100-0-0	James Bell	10th of Bell
20-1000	11A-100-0-0	James Bell	11th of Bell
20-1000	12A-100-0-0	James Bell	12th of Bell
20-1000	13A-100-0-0	James Bell	13th of Bell
20-1000	14A-100-0-0	James Bell	14th of Bell
20-1000	15A-100-0-0	James Bell	15th of Bell
20-1000	16A-100-0-0	James Bell	16th of Bell
20-1000	17A-100-0-0	James Bell	17th of Bell
20-1000	18A-100-0-0	James Bell	18th of Bell
20-1000	19A-100-0-0	James Bell	19th of Bell
20-1000	20A-100-0-0	James Bell	20th of Bell

STATEMENT OF DEFENSE
I, the undersigned, being a duly qualified juror in the State of Texas, do hereby certify that I have read the indictment in this case and that the facts therein set forth are true and correct to the best of my knowledge and belief.
Subscribed and sworn to before me this _____ day of _____, 19____.
Notary Public for the State of Texas.
[Signature]
My commission expires _____.

STATEMENT OF VERDICT
The jury, after having heard the evidence and the arguments of the parties, find the defendant guilty of the offense charged in the indictment.
Subscribed and sworn to before me this _____ day of _____, 19____.
Notary Public for the State of Texas.
[Signature]
My commission expires _____.

STATEMENT OF COURT EXPENSES
I, the undersigned, being a duly qualified juror in the State of Texas, do hereby certify that I have read the statement of expenses in this case and that the facts therein set forth are true and correct to the best of my knowledge and belief.
Subscribed and sworn to before me this _____ day of _____, 19____.
Notary Public for the State of Texas.
[Signature]
My commission expires _____.

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 12/3/93
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1
Address
 2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR 023569
Address Repair Organization P. O. No., Job No., etc.
 3. Work Performed by DLCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code Section III, 71 Edition, W'72 Addenda, -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements B3E-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-633	Kerotest	--	--	W-D-9909-(1)	--	Repaired	Yes

7. Description of Work Replaced valves bonnet, yoke, stem and diaphragms

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

* OST 2.6.1

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N/A
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] Senior Eng. Date Feb. 7 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 this Owner's Report during the period 9-27-93 to 2-9-94, 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 NB 5314 and PA 2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Feb 9 19 94

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 12/3/93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address
 MWR #023753
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Component Cooling - Primary

5. (a) Applicable Construction Code Section III 19 71 Edition, S '73 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)
2CCP-290	Dresser	H503AAE	---	2" Check Valve	1978	Repaired	yes

7. Description of Work Seal welded valve body to cap.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure 1.60.6
 Other Pressure 1.60.6 psi Test Temp. "

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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: NPV-1 form attached. Valve disassembled for inspection, then

Applicable Manufacturer's Data Reports to be attached
reassembled and seal welded.

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 Engr. Date January 25 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 this Owner's Report during the period 10-7-93 to 1-26-94 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 N.I. PA0274
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-26 19 94

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 12/7/93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 2. Plant Beaver Valley Power Station Sheet 1 of 1
Name Unit No. 2
Shippingport, PA 15077
Address MWR 014920
Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DLCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
 4. Identification of System Chemical and Volume Control
 5. (a) Applicable Construction Code Section III 71 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)
2CHS-RV209	Crosby	N56900-00-0028	193	2X3 Relief Valve	1976	Repaired	Yes

7. Description of Work Replaced valve internals (see remarks)
 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 193 psi Test Temp. Amb. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced valves nozzle, spindle assy, disc holder and bellows
assy, disc insert pin. 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] Senior Engr Date Feb. 7 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 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 10-14-93 to 2-8-94 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 I PA2274
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-8-93 19 93

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 12/7/93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #013456
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maint. Program Type Code Symbol Stamp Not Applicable
Name Authorization No.
Shippingport, PA 15077 Expiration Date
Address
4. Identification of System Service Water
5. (a) Applicable Construction Code Section III, 19 71 Edition, W 172 Addenda Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-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)
2-SWM-003-004-3	Power Piping	N-1316-82-6745	---	SWM-4-3	1984	Replaced	yes

7. Description of Work Replaced Monel 400 spool piece with Inconel 625.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 168 psi Test Temp. 74.5 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks NPP-1 Data Report attached, Material Change per TER 6902.

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] Semi-Eng. Date January 25 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 this Owner's Report during the period 8/19/93 to 1/26/94 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] Commission "F.N." P22274
Inspector's Signature National Board, State, Province, and Endorsements

Date 1-26 19 94

FORM NPT-1 DATA REPORT FOR FABRICATED

As Required by the Provisions of the ASME Code

Power Piping Company, Donora, PA

Beaver Valley Power Station
(Name and Address)

Duquesne Light Company, Pittsburgh, PA

Service Water - Marine Growth

Drawings No. W-3 letter dated 1/27/84 prepared by Stone & Webster Engineering

N/A

Addenda Date W 1/27/84 Case No. 100

By Field

- 1. Pipe - 3" XX-8tg. (.600" N.W.) 3/16" Monel Pipe Machined from ASME SB-16 L.C. No. P-1976, Rt. ID 998AN, Lgth. = 2'-2" Lg.
- 2. 3" 300# P.S. 8/0 Flg., BA 105, Item #8, L.C. No. M-8318, Rt. ID 100
- 3. 3" X 9" O.D. 150# P.S. 8/0 Red. Flg. R/F, BA 105, Item #10, L.C. No. M-4347, Rt. ID 6X11375

NOTE: Welding Electrode L.C. No. E-101

I hereby certify that the statements made in this report are correct and that I am a holder in good standing of the ASME Certificate of Authorization for the ASME BOILER AND PRESSURE VESSEL CODE.

Date May 2, 1984 Signed Power Piping Company

Certificate of Authorization Expires January 7, 1988 No. 100

CERTIFICATE OF SHOP INSPECTION

R-1316

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and for the State of PENNSYLVANIA and employed by LEWISBURGH WYSOL

have inspected the piping described on this Data Report on 1-2-84 and state that the NPT Certificate Holder has constructed this piping in accordance with the applicable Subsections of ASME Code Section II

By signing this certificate, neither the inspector nor his employer makes a warranty, expressed or implied, concerning the piping or the inspection. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a claim for compensation arising from or connected with this inspection.

Date 1-2-84 By [Signature] Inspector
National Board State Province PA 2063

Supply three copies of this certificate and drawings may be used. (1) information in items 1, 2 and 3 of this Data Report is included on each sheet, and (2) each sheet is numbered and signed.

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 12-14-93

Sheet 1 of 6

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2

MWR # 020675, 022661

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

5. (a) Applicable Construction Code Section III 74 Edition W'75 Addenda -- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements B3E-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)
2SWS-EJM237B	Pathways Bellows	D-3-3213-N2-914	--	30" Metal Expansion Jt.	1978	Replaced	Yes
2SWS-EJM237B	Senior-Flexonics	J-3292	--	30" Metal Expansion Jt.	1993	Replacement	No

7. Description of Work Replaced expansion joint

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 230 psi Test Temp. 75 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Metal expansion joint s/N D-3-3213-N2-913 was removed from the
2SWS-EJM237A location, refurbished by Senior Flexonics under MWR #022661,
and reinstalled at the 2SWS-EJM237B location. N-5 data reports attached
for pathways only.

CERTIFICATE OF COMPLIANCE

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

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

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

Signed [Signature] Senior Eng. Date December 14 19 93
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 this Owner's Report during the period 4-20-93 to 12-15-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 and P2245
Inspector's Signature National Board, State, Provincial, and Enforcement

Date Dec 15 19 93

FORM B-6 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

- 1. Installed by Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
- 2. Installed for Duquesne Light Company, One Jelford Centre, 301 Grant St., Pittsburgh, PA 15279
- 3. If Certificate Holder having overall responsibility Stone & Webster Engineering Corporation
- 4. Location of Installation at Jolley Power Station Unit #2, Shippingport, PA 15077
- 5. System Identification # 10-545-3 S/A ATT. 10 Part No. N/A Year Installed 1977

6. Nuclear Components and Appurtenances Installed in the Field by Welding (List each item and attach copies of N Certificate Holder's Data Reports and NPT Certificate Holder's Partial Data Reports) E 787 ()

Component, or Appurtenance	(a) Name of Certificate Holder	(b) Serial No.	(c) Canadian Reg. No.	(d) National Bd. No.	(e) Year Built
See attached sheet 3 of 3 for Partial B-6 Data Reports					
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 attached sheet 3 of 3 for Partial B-6 Data Reports					
NO FURTHER ENTRIES					

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Regs. Load Capax. Data Sheet	(e) Canadian Reg. No.	(f) National Bd. No.	(g) Year Built
See attached sheet 3 of 3 for Partial B-6 Data Reports						
NO FURTHER ENTRIES						

Additional Material Including Welding Material

(a) Name of Manufacturer	(b) Material Specification	(c) Dimensions
See attached sheet 3 of 3 for Partial B-6 Data Reports		
NO FURTHER ENTRIES		

NOTE: The following shortened company names are used in this report:

- SWBC: Stone & Webster Eng.
- SPC: Schneider Power Corporation
- MSBI & I Co.: Hartford Steam Boiler Inspection & Insurance Company
- PPC: Power Piping Company

Pressure or Working etc. _____ Prepared by _____

See attached sheet 3 of 3 for Partial B-6 Data Reports

(a) Description of Installation Performance

See attached sheet 3 of 3 for Partial B-6 Data Reports

(a) Hydrostatic Test _____ psi. System Working Pressure _____ psi and Temp. _____

* Specifications, standards, form of test, schedule, or drawings may be cited provided (1) also in B-6B in. x 11 in. (2) information is given to identify the specific test program indicated on each sheet, and (3) each sheet is numbered and the number of sheets is stated at the end of this form. See attached sheet 3 of 3 for Partial B-6 Data Reports

CERTIFICATE OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on file at STONE & WOODRIDGE ENR. CORP. BOSTON, MASS.
 Design Report on file at A stress report is not required for Class 2 or 3 piping system
 Design number on file at (1) J.R. Bealan PG Data Homosassa
 Reg. No. 55873-2
 Design Report prepared by (1) A stress report is not req'd for Class 2 or 3 piping systems.
 Reg. No. SEE CLASS 2 or 3 piping systems.
 (1) Signature not required. List name only. See attached Sheet 3 of 3 for partial 20-6 Data Reports.
 Design Conditions of Piping ASME and ASME P.

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, Division III, Subsection 1, ASME Edition ASME Addenda ASME Code ASME Class 2 and was performed in accordance with the documents listed in Part 2 of this report.
 See attached sheet 3 of 3 for Partial 20-6 Data Reports
 Date and Place 1/3/87 Signed Schneider Power Corporation by [Signature]
 Certificate Number 105100-2

CERTIFICATE OF INSPECTION COMPLIANCE

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 ENR A I Co. have inspected the installation of the piping described in this Data Report on 1-3-87 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 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 other loss of any kind arising from or connected with this inspection.
 Date 1-3-87 Signed [Signature] Inspector No. 105100-2
 State Mass. District ASME District, Province, and No. ASME

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder shall complete the following statement. 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 Division III, Subsection 1.
 Certificate of Authorization expires on 12/31/87 Certificate of Authorization No. 105100-2
 Date 1/3/87 Signed Stone & Woodridge Enr. by [Signature]

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by ENR A I Co. have inspected the piping described in this Data Report on 1/3-87 and state that, to the best of my knowledge and belief, the Certificate of Authorization Holder has constructed this installation in accordance with the ASME Code for Nuclear Power Plant Components.
 By signing this certificate, neither the inspector nor his employer make any warranty, 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 other loss of any kind arising from or connected with this inspection.
 Date 1/3-87 Signed [Signature] Inspector No. 105100-2
 State Mass. District ASME District, Province, and No. ASME

NS DATA REPORT

2-68-38-10-545-3

Sheet 3 of 3

1. INSTALLED BY: Schneider Power Corp., 125 BROADWAY, PITTSBURGH, PA 15222
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15278
3. IN 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) 2-68-38-10-545-3 YEAR INSTALLED 1987

PARTIAL NS DATA NUMBER LISTING

Continued from Sheet 1 & 2

System	Count
2-68-38-100(MBB)SWS	3
2-68-38-10C(MBB)SWS	3
2-68-38-10-A-SWS-3	41
FURTHER ENTRIES	

Continued on Sheet N/A

Date: 1/16/87 Prepared by: [Signature]
 Drawn by: [Signature] Checked by: [Signature]
 Calculated by: [Signature] Approved by: [Signature]
 Date: 1/16/87 Date: 1/16/87

FORM 10-6 DATA REPORT FOR INSTALLATION OR REPAIR ASSEMBLY OF NUCLEAR POWER PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES 2-20-30-10-A-205-1

As Required by the Provisions of the ASME Code Rules, Section III, Division 1 Sheet 1 of 41

1. Installed by Valley Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
Name and address of holder of certificate, certificate holder or contractor
2. Installed for Power & Light Company, One Suburb Center, XII Street St., Pittsburgh, PA 15278
Name and address of purchaser or owner
3. If Certificate Holder Name State & Webster Engineering Corporation
4. Location of Installation Valley Power Station Unit #2, Shinnston, PA 15077
5. System Identification 2-30-2-10-A-205-30/A Act. 10 Part 001 Reg. No. N/A Year Installed 1987
(Div. Serial No.) (Working No.)

6. Number Components and Appurtenances Installed in the Field by Welding (List each row and attach copies of all Certificate Holder's Site Reports and RPT Certificate Holder's Partial Data Reports)

Int Components, or Appurtenances	Int Name of Certificate Holder	Int Serial No.	Int Canadian Reg. No.	Int National Std. No.	Int Year Built
SEE ATTACHMENT (1) "Parts, Components & Appurtenances"					
NO FURTHER ENTRIES					

Piping System Installation

Int Piping Subassembly	Int Name of Certificate Holder	Int Serial No.	Int Canadian Reg. No.	Int National Std. No.	Int Year Built
SEE ATTACHMENT (2) "New Fabricated Large Bore Piping Subassemblies Installed"					
SEE ATTACHMENT (3) "Field Modified Large Bore Subassemblies Installed"					
SEE ATTACHMENT (4) "New Fabricated Small Bore Subassemblies Installed"					
SEE ATTACHMENT (5) "Field Modified Small Bore Subassemblies Installed"					
NO FURTHER ENTRIES					

Component Support Installation

Int Component Support No.	Int Name of Certificate Holder	Int Serial No.	Int Grade Regt. Load Capax. Data Sheet	Int Canadian Reg. No.	Int National Std. No.	Int Year Built
Component Supports are See-Comp. and are made effective over. See "Additional Material Excluding Welding Material" for "Component Support Internal Attachment Only".						
NO FURTHER ENTRIES						

Welding Material

Int Name of Manufacturer	Int Material Specification	Int Dimensions
SEE ATTACHMENT (6) "Component Support"		
INTERNAL ATTACHMENT ONLY		
SEE ATTACHMENT (7) "Additional Material"		
NO FURTHER ENTRIES		

NOTE: The following shortened company names are used in this report:
 SMEC: State & Webster Engr. Corp.
 SPC: Schneider Power Corp.
 HSB & I Co.: Hartford Steam Boiler Inspection & Insurance Co.
 PPC: Power Piping Company

7. Installation in Accordance with

- SEE ATTACHMENT (8) "Inspection Reports & Revisions"
- SEE ATTACHMENT (9) "Procedures & Specifications"
- NO FURTHER ENTRIES

8. Description of Installation Performance

- SEE ATTACHMENT (10) "Description of Installation Performed"
- NO FURTHER ENTRIES

9. Hydrostatic Test psi. System Working Pressure psi and Temp.

* Supplemental data in form of data, sketches, or drawings may be used provided (1) they do not exceed 11 in. x 17 in. (2) information is given 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 41 "CERTIFICATION OF RECORD..." FOOTNOTE.

CERTIFICATION OF DESIGN FOR PIPING SYSTEM INSTALLATION

Design information on file at STONE & WEBSTER ENG. CORP., BOSTON, MASS.
 Design Report on file at A stress report is not required for Class 2 or 3 piping systems.
 Design certificate No. 10111 by J.R. Basler PE State Pennsylvania
 Reg. No. 32972-B
 Design Report certified by (1) A stress report is not required 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. Last name only.
 Design Conditions of Piping: Pressure 0 psi Temperature 0 F

CERTIFICATE OF INSTALLATION COMPLETION

We certify that the statements made in this report are correct and that the installation conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, 1971 Edition.
 Certificate Date: 11/28/72 Code Case No. 0 Class 3 and was performed in accordance with the documents listed in Tab. above.
 Our ASME Certificate of Authorization No. 0-1524-1 is used for the SA Symbol covers 0-12-89
 Date 11/28/72 Signed [Signature] Inspector
 SEE ATTACHMENT(11) "Labor Code, Section III, Division 1, and Code Case Number 10327"

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 ESBI & I Co. of Hartford, CT have inspected the installation of the items described in this Data Report on 1-3 1977 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 1-3 1977 Signed [Signature] Inspector Commission PA2000-2
 State of Penn. and No. 1

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder accepts overall responsibility for the piping system and complies with following statement: 11111 and ATTRIBUT (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 6-12-88 Certificate of Authorization No. 0-1512-2
 Date 11/28/72 Signed [Signature] Inspector

CERTIFICATE OF INSPECTION

The undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by ESBI & I Co. of Hartford, Connecticut have inspected the piping described in this Data Report on 3/9 1977 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, 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 3/9 1977
 Signed [Signature] Inspector Commission PA20534
 State of Penn. and No. 1

N-6 DATA REPORT
ATTACHMENT 1

1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of N-6, Components, and Appurtenances)
2. INSTALLED FOR: DUQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15270
3. N CERTIFICATE HOLDING 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) YEAR INSTALLED: 1987
(N-6 Serial No.) 2-SR-30-10-A-SWS-3

Continued from Sheet 1

PARTS, COMPONENTS, & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Components or Appurtenances	Certificate Holder	Serial No.	Canadian Reg. No.	National Std. No.	Year Built	metric & Isometric Item No.
16	2SWS*RV101B	Dresser Ind.	TE-87730	N/A	N/A	1982	520-139 (ITEM#3)
17	2SWS*RV101B	Dresser Ind.	TE-87732	N/A	N/A	1982	520-139 (ITEM#4)
18	2SWS*RV101C	Dresser Ind.	TE-87731	N/A	N/A	1982	520-140 (ITEM#3)
19	2SWS*RV101A	Dresser Ind.	TE-87729	N/A	N/A	1982	520-140 (ITEM#6)
20	V05060-C-3	Dresser Ind.	H380AAE	N/A	N/A	1978	120728 (ITEM#6)
21	V65060-BZ-3	Henry Vogt Mach.	79-214959	N/A	N/A	1983	120728 (ITEM#30)
22	V05060-C-3	Dresser Ind.	H258AAB	N/A	N/A	1978	120728 (ITEM#41)
23	TRW Mission	TRW Mission	84584	N/A	N/A	1976	120728 (ITEM#1)
24	2SWS*MOV120B	Henry Pratt Co.	B-0014-8-1	N/A	N/A	1978	120728 (ITEM#3)
25	2SWS*MOV103B	Henry Pratt Co.	A-0027-8-2	N/A	N/A	1978	120728 (ITEM#4)
26	2SWS*MOV106B	Henry Pratt Co.	B-0014-5-1	N/A	N/A	1978	120728 (ITEM#5)
27	2SWS*EJM-237A	Pathway Inc.	D-3-3213-N2-913	N/A	N/A	1978	120728 (ITEM#7)
28	VC1015-C-3	TRW Mission	84584	N/A	N/A	1976	120727 (ITEM#1)
29	2SWS*MOV103A	Henry Pratt Co.	A-0027-8-1	N/A	N/A	1978	120727 (ITEM#4)
30	V00360-C-3	Dresser Ind.	H265AAB	N/A	N/A	1978	120727 (ITEM#6)

Continued on Sheet 5

Date of Report: 1/2/87 Prepared by: [Signature]

Date of Issue: 1/2/87 Checked by: [Signature]

Date of Revision: 1/2/87 Issued by: [Signature]

Date of Approval: 1/2/87 Approved by: [Signature]

Project No.: 7295

N-6 DATA REPORT
ATTACHMENT 1

- 1. INSTALLED BY Stone & Webster Engineering Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of Parts, Components and Appurtenances)
- 2. INSTALLED FOR ILLUMESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15278
- 3. IN CERTIFICATE HOLDER Stone & Webster Engineering Corp. Having Overall Responsibility
- 4. LOCATION OF INSTALLATION Beaver Valley Power Station, Unit-2, Shippingport, PA 15077
- 5. SYSTEM IDENTIFICATION Service Water System (SWS) YEAR INSTALLED 1987
(i.e. Serial No.) 2-8E-30-10-A-SWS-3

Continued from Sheet 4

PARTS, COMPONENTS, & APPURTENANCES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Item No.	Components or Appurtenances	Certificate Holder	Serial No.	Canadian Reg. No.	National Bd. No.	Year Built	Inventory & Metric Item No.
31	2SWS*NOV106A	Henry Pratt Co.	D-0014-3-1	N/A	N/A	1978	10727
32	VC8060-BZ-3	Henry Vogt Mach.	108-214959	N/A	N/A	1983	10727 (TM#5)
33	VO8060-C-3	Dresser Ind.	B263AAG	N/A	N/A	1978	10727 (TM#30)
34	VO8060-CZ-1	Henry Vogt Mach.	100-214959	N/A	N/A	1983	10727 (TM#37)
35	2SWS*EJN-237B	Pathway Bellows, Inc.	D-3-3213-W2-914	N/A	N/A	1978	10727 (TM#49)
36	2SWS*NOV120A	Henry Pratt Co.	D-0014-7-1	N/A	N/A	1978	10727 (TM#7)
37	2SWS*EJN-221B	Pathway Bellows, Inc.	D-7-3213-W2-1446	N/A	N/A	1980	10727 (TM#1)
		Bellows, Inc.	D-7-3213-W2-1445	N/A	N/A	1980	10727 (TM#5)
39	VC8060-BZ-3	Henry Vogt Mach.	82-214959	N/A	N/A	1983	10727 (TM#4)
40	VC8060-B-3	Dresser Ind.	B086AAE	N/A	N/A	1978	10727 (TM#2)

NO FURTHER ENTRIES

Continued on Sheet N/A Date 4/2/87 Schneider Power Corp. Signed [Signature]
 Date 5/13/87 [Signature] Commissioned [Signature]
 Date 5/13/87 Stone & Webster Eng. Corp. Signed [Signature]
 Date 7/3/87 [Signature] Commissioned [Signature]
(Part Board, Note and ...)

N-8 DATA REPORT
ATTACHMENT 12

2-SR-30-10-A-SWS-3
Sheet 41 of 41

1. INSTALLED BY: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer or Manufacturer, Commissioning, and Authorizing)
2. INSTALLED FOR: DUCQUESNE LIGHT COMPANY, ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PENNSYLVANIA 15278
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) YEAR INSTALLED 1987
(NRC Form No.) 2-SR-30-10-A-SWS-3

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 prepared 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-8 Data Report.

Revision	Addenda	Subsections	Paragraphs	Authorizing Document(s)
1980	Winter 1981	HB/BC/ND	4427-1	2BVS-920
1980	Winter 1982	HCA	8008	2BVS-920
1974	Summer 1976	NX	4435	2BVS-920
1980	Summer 1981	HCA	8240(b)	2BVS-920
1974	N/A	HC/BC/ND	3641.1	2BVS-939
1977	Summer 1978	HC/ND	3643.1	2BVS-939
1977	Summer 1978	HC/ND	3643.3	2BVS-939
1983	Summer 1983	APPENDIX V	N/A	2BVS-920
1983	N/A	NX	6111	2BVS-920
1980	Summer 1981	HB/BC/ND	6211	2BVS-920
1983	Winter 1983	HC/ND	4436	2BVS-920
1980	Summer 1981	HC/ND	3658.2	2BVS-939
1974	N/A	ND	4231.2	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-275	2BVS-920	1606-1	2BVS-939
N-376	2BVS-920	N-392	2BVS-939
N-248	2BVS-920	N-32-3	2BVS-920

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 1/1/82 Signed [Signature]
 Date 3/1/87 Signed [Signature]
 Date 3/1/87 Signed [Signature]
 Date 3/9/87 Signed [Signature]

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 12-20-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 Sheet 1 of 1

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address
MWR #017471
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Feedwater

5. (a) Applicable Construction Code -- 19 -- Edition -- Addenda -- Code Case --
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is B3E-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)
2FWS-PSSP003B	Paul-Munroe	1678	--	PMH2200-5A	--	Replaced	NO
2FWS-PSSP003B	Liseqa	61256-24		3062RC1-SP	--	Replacement	No

7. Description of Work Replaced snubber

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced snubber with a new design per TER 6724.
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] Exin-Eng Date January 3 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 this Owner's Report during the period 3-1-93 to 1-5-94 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 NRB314 ANI 62245
Inspector's Signature National Board, State, Province, and Endorsements

Date January 5 19 94

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 12-21-93
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 Sheet 1 of 1

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address
MWR #017470
Repair Order, Station P.O. No., Job No., etc.

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

4. Identification of System Feedwater

5. (a) Applicable Construction Code _____ 19____ 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)
2FWS-PSSP003A	Paul-Munroe	1677	--	PMH2200-5A	--	Replaced	No
2FWS-PSSP003A	Lisega	61256-25	--	3062RC1-SP	--	Replacement	No

7. Description of Work Replaced snubber

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks Replaced snubber with new design per TER 6724.

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] Senior Engr. Date December 30 19 93
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 this Owner's Report during the period 3-1-93 to 12-29-93 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature [Signature] Commission NB 314 B.V.I. P 2245
National Board, State, Province, and Endorsements

Date Dec 29 19 93

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 1/26/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 2. Plant Beaver Valley Power Station Sheet 1 of 2
Name Unit No. 2
Shippingport, PA 15077
Address MWR 009850, DCP 1805
Repair Organization P.O. No., Job No. etc.
 3. Work Performed by DLCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
 4. Identification of System Reactor Coolant
 5. (a) Applicable Construction Code Section III 19 77 Edition S'79 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)
2RCS-PCV455C	Garret Pneumatic	P-121	--	PORV	Mod 1983	Repaired	Yes
	Crosby Vlv	--	--	Seat Ring	1991	Replacement	No

7. Description of Work Machined .006" from plug, replaced seat ring w/Inconel 718

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure psi Test Temp. °F
 * OST 2.6.8, OST 2.6.1

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks NPV-1 form attached. Stellite seat ring replaced with Inconel 718 per DCP 1805. Applicable Manufacturer's Data Reports to be 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 February 2 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, Massac setts

have inspected the components described in this Owner's Report during the period 5-14-92 to 2-2-94 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 NB 314 and PA 2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Feb 2 19 94

1. Manufactured by Garrett Pneumatic Systems Division, P. O. Box 5217, Phoenix, AZ 85010
(Name and Address of 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. 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 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) 3750014						
(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 psi 650 °F or Valve Pressure Class N/A (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 4070 psi at 100°F
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Coatings <u>None</u>			
(b) Forgings			
3751032-1 Bonnet	SA182 Grade F316	Coulter Steel & Forge	RR #623264
Made from		1494 67th St.	HT #15772
3751030-1		Emeryville, CA 94662	RR #603484
Bonnet Forging		N-1189	HT #15771
3751042-1 Plug	SA479 Grade F316	Coulter Steel & Forge	RR #656907
Made from steel		Same as above	HT #616448
bar material		QSC-266	
#9-9939			

PART NUMBER 3750014 REV J
 SERIAL NUMBERS P-119, P-121 and P-122
 PURCHASE ORDER 546CCW454805 BN

(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 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.

Item No	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
3751036-1 Nut	SA194 Grade 6	Lonestar Screw Co P.O. Box 15211, 5826 Houston, TX QSC-389	RR #750095 RR #632574 RR #632576 HT #27765
3751036-3 Nut	SA194 Grade 6	Lonestar Screw Co Same as above OSC-389	RR #758093 RR #632575 HT #23751
3751046-2 Stud	SA453, Grade 660 Class A, Type 2	Lonestar Screw Co Same as above OSC-388	RR #758737/758091 HT #C10926-4/HT#C1
(d) Other Parts			
Welding Rod	SFA 5.13 C1	Johnston Stainless	RR #611945
Material #9-9937 (used on 3751042-1 Plug)	Class RCOCR-A	Welding Rods 10140 Romandel Ave. Santa Fe Springs, CA 90670 QSC-285	HT #5027-10 RR #749649 HT #3E15-2

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 Code Case No. N/A Date Dec. 9, 1983
 Signed Garrett Pneumatic Systems Division by [Signature]
(In Certificate Holder)
 Our ASME Certificate of Authorization No. N-2516 to use the N symbol expires 11-12-84
(N) (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 Arizona Reg. No. 11734
 Part Number 3750014 Rev J
 Serial Numbers P-119, P-121 and P-122
 Purchase Order 546CCW454805 BN
 (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 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, 1983 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.

December 9, 1983
[Signature]

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 1/26/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 1 of 2
Name
Shippingport, PA 15077
Address Unit No. 2
MWR 009705, DCP 1805
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Reactor Coolant System

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)
2RCS-PCV455D	Garrett Pneumatic	P-122	--	PORV	Mod. 1983	Repaired	Yes
--	Crosby Vlv	--	--	Seat Ring	1991	Replacement	No

7. Description of Work Machined .006" from plug, replaced seat ring w/Inconel 718

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
*OST 2.6.8, OST 2.6.1

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks: NPV-1 form attached. Stellite seat ring replaced with Inconel
718 per DCP 1805. Applicable Manufacturer's Data Reports to be 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 February 2 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 this Owner's Report during the period 5-9-92 to 2-4-94, 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.

Inspector's Signature [Signature] Commission NA3314 ANI P2245
National Board, State, Province, and Jurisdictions

Date February 4 19 94

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 Outlet Size 6.0
(inch) (inch)

(a) Model 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 <u>As</u> 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) 3750014						
(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 psi 650 °F or Valve Pressure Class N/A (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 4070 psi at 100°F
 8. Pressure Retaining Piece

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings <u>None</u>			
(b) Forgings			
3751032-1 Bonnet	SA182 Grade F316	Coulter Steel & Forge	RR #623264
Made from		1494 67th St.	HT #15772
3751030-1		Emeryville, CA 94662	RR #603484
Bonnet Forging		N-1189	HT #15771
3751042-1 Plug	SA479 Grade F316	Coulter Steel & Forge	RR #656907
Made from steel		Same as above	HT #616448
bar material		QSC-266	
#9-9939			

(1) For manual, air-actuated 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 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.

PART NUMBER 3750014 REV J
 SERIAL NUMBERS P-119, P-121 and P-122
 PURCHASE ORDER 546CCW454805 BN

Part No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting 3751036-1 Nut	SA194 Grade 6	Lonestar Screw Co P.O. Box 15211, 5826 Houston, TX QSC-389	RR #750095 RR #632574 RR #632576 HT #27765
3751036-3 Nut	SA194 Grade 6	Lonestar Screw Co Same as above QSC-389	RR #758093 RR #632575 HT #23751
3751046-2 Stud	SA453, Grade 660 Class A, Type 2	Lonestar Screw Co Same as above QSC-388	RR #758737/758091 HT #C10926-4/HT#C1
(d) Other Parts			
Welding Rod	SFA 5.13 C1	Johnston Stainless	RR #611945
Material #9-9937 (used on 3751042-1 Plug)	Class RCOCR-A	Welding Rods 10140 Romandel Ave. Santa Fe Springs, CA 90670 QSC-285	HT #5D27-10 RR #749649 HT #3E15-2

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 Code Case No. N/A Date Dec. 9, 1983
 Signed Garrett Pneumatic Systems Division by [Signature]
(N Certificate Holder)
 Our ASME Certificate of Authorization No. N-2516 to use the N symbol expires 11-12-84
(N) 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 Arizona Reg. No. 11734
 Part Number 3750014 Rev J
 Serial Numbers P-119, P-121 and P-122
 Purchase Order 546CCW454805 BN
 (1) Signature not certified. 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 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.

[Signature] 12/9/83
[Signature]

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 1/26/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 2. Plant Beaver Valley Power Station Sheet 1 of 2
Name Unit No. 2
Shippingport, PA 15077 MWR #016904
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DlCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. _____
Shippingport, PA 15077 Expiration Date _____
Address

4. Identification of System Steam Vent
 5. (a) Applicable Construction Code Section III, 74 Edition S'74 Addenda -- Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2SVS-82	Atwood-Morrill	2-13540-28	--	6" Check Valve	1983	Repaired	YES

7. Description of Work Machined .045" off of disc

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 *2BVT 1.60.6

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 NPV-1 form attached. Machined disc to removed chatter marks.

Applicable Manufacturer's Data Reports to be 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 *Bonnie White* Senior Engineer Date February 4 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 this Owner's Report during the period 2-14-93 to 2-4-94 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.

John J. ... Commissions NB-314 DOLL P-224
Inspector's Signature National Board, State, Province, and Endorsements

Date February 4 19 94

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

REVISED 1000

1. Manufactured by Atwood & Merrill Co., Inc. Salem, Mass. 01970
(Name and Address of N Certificate Holder)
 2. Manufactured for Stope & Webster Engineering Corp., Boston, Mass.
(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 6 Outlet Size 6

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Next Bd No.	(g) Rev. No.
(1) 6" Check Valve	2-13540-28	N/A	13540-28 " Rev. 1	2	N/A	1283
(2)						
(3)						
(4)						
(5)						
(6)						
(7) *	Revised to update drawing rev. level					
(8)						
(9)						
(10)						

5. Main Steam
(Or Description of service for which equipment was designed)

6. Design Conditions 1100 psi 560 F or Valve Pressure Class N/A
(Pressure) (Temperature)
 7. Cold Working Pressure 1440 psi at 100°F
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body RT # Y160	SA 216 Gr. WCB	Quaker Alloy	Ht. # F5225
Disc RT # XR2097	SA 351 Gr. CF8M	Quaker Alloy	Ht. # X5705
(b) Forgings			
N/A		Duquesne Light Co. Beaver Valley Unit 2 P.O. No. 28V-20 Misc. Check Valves 2 1/2" and Larger Manufactured By Atwood & Merrill Co., Inc. 285 Canal Street Salem, MA 01970	

(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 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 Cover Studs	SA 193 Gr. B7	Bonson Mfg. Inc.	Trace # 018
Cover Nuts	SA 194 Gr. 2H	Bonson Mfg. Inc.	Trace # 016
(d) Other Parts Cover	SA 515 Gr. 70	Mills Alloy Steel	Ht # 02900-390

9. Hydrostatic test 2200 psi. Disk Differential test pressure 1500 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 Summer 1974 Code Case No N/A Date N/A
 Signed Atwood & Morrill Co., Inc. by John M. Gray R.A.M.G.R. 1/11/84
(In Certificate Holder)
 Our ASME Certificate of Authorization No. N-2606 to use the II 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) Walter J. Parker, Jr.
 PE State PA Reg. No. 29003-F
 Stress analysis certified by (1) N/A
 PE State N/A Reg. No. N/A
(1) Signature not required. List name only.
Duquesne Light Co.
Beaver Valley Unit 2
P.O. No. 2BV-20
Misc. Check Valves
2 1/2" 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 Aug 30 1983, 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.
 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 1/10 1984

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 1/26/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 1 of 3
Name
Shippingport, PA 15077
Address Unit No. 2
MWR #017331
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code Section III 19 71 Edition W'72 Addenda -- Code Case --
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

5. 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-RV551C	Crosby Vlv	N56963-00-008	--	6RV88LSB	1976	Replaced	Yes
2RCS-RV551C	Crosby Vlv	N56963-01-011	--	6RV88LSB	1985	Replacement	Yes

7. Description of Work Changed out valve for lift and seat leakage testing. Replaced bolting

8. Tests Conducted: Hydraulic 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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NV-1 Form 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] Senior Engineer Date February 2 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 this Owner's Report during the period July 2 1993 to July 2 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.

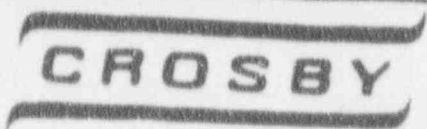
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury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

*Factory Mutual Engr. Assn.

[Signature] Commission N31314 and P2245
Inspector's Signature National Board, State, Province, and Endorsements

Date July 2 19 94

8-18-87 Corrected Report 8-13-87



CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

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

Q.C. 44C-1

DATA REPORT
Safety and Safety Relief Valves

1 Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address
Model No HB-86-8P Order No N23911 Contract Date 2/8/83 National Board No. --
Alabama Power Company
2 Manufactured For P.O. Box 2641, Birmingham, AL 35291 Order No ENP2-4521
Name and Address
3 Owner Alabama Power Company, Farley Nuclear Plant
Name and Address
4 Location of Plant Columbia, AL
5 Valve Identification SPARE Serial No N56963-01-0011 Drawing No DS-C-56963-1 Rev. 0
Type Safety Orifice Size M1 Pipe Size -- Inlet 6 Outlet 6
Safety Safety Relief Pilot Power Actuated Inlet Inlet Inlet Inlet
Inch Inch Inch Inch
6 Set Pressure (PSIG) 2485 344.811 650
8-18-87 20,000 lbs/hr saturated steam Rated Temperature
Stamped Capacity 3 % Overpressure 5% Blowdown (PSIG) --
8-18-87
Hydraulic Test (PSIG) Inlet 4575 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

Part	Serial No. Identification	Material Specification (including Type or Grade)
a. Crossed out Body	<u>N94627-31-0001</u>	<u>ASTM A182 Gr. F316</u>
* Bonnet	<u>N94633-99-0001</u>	<u>ASTM A105 Gr. II</u>
b. Bar Stock and Forgings		
Disc Holder	<u>N94629-31-0002</u>	<u>ASTM A637 Gr. 718</u>
Crossed out Nozzle	<u>N94628-99-0001</u>	<u>ASTM A182 Gr. F316</u>
Disc Insert	<u>N94630-31-0001</u>	<u>Haynes Stellite Alloy No. 5B</u>
Spring Washers	<u>N94634-31-0001</u> <u>N94634-31-0003</u>	<u>ASTM A105 Gr. II</u>
Adjusting Bolt	<u>N94635-32-0002</u>	<u>ASTM A193 Gr. B6</u>
Spindle Point	<u>N94631-31-0001</u>	<u>ASTM A193 Gr. B6</u>
Spindle Ball	<u>N94632-99-0001</u>	<u>ASTM A276 Type 440C</u>

* The material, design, construction and workmanship for Bonnet comply with ASME Code, Section III, Class 1, 1980 Edition, Winter 1981 Addenda in accordance with Change No. 2 to the customer's purchase order.

Lawrence J. Pires 2-18-87
Crosby Quality Assurance Date

[Signature] MA 1375 8-19
Factory Mutual ANI Date

	Serial No. or Identification	Material Specification including Type or Grade
c. Spring	<u>K65092-31-0001</u>	<u>NX4760-99-0001</u>
d. Bolting		
e. Other Parts such as Pilot Components		
Inlet Stud	<u>N90488</u>	<u>ASTM A453 Gr. 660</u>
Inlet Nut	<u>N90489</u>	<u>ASTM A193 Gr. B6</u>
Bonnet Stud	<u>100987</u>	<u>ASTM A453 Gr. 660</u>
Bonnet Nut	<u>89997</u>	<u>ASTM A193 Gr. B6</u>

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

Date 3-27-19 85 Signed Crosby Valve & Gage Co. By [Signature]
Manufacturer

Certificate of Authorization No. 1878 expires September 30, 1986

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 Arkwright-Boston Manufacturers Mutual Insurance Company have inspected the equipment described in this Data Report on MAR. 27 19 85 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 MAR. 27 19 85 Factory Mutual System
[Signature] Commissions MASS 1303
(Inspector) National Board, State, Province and 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 Date 1/27/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 2. Plant Beaver Valley Power Station Sheet 1 of 3
Name
Shippingport, PA 15077
Address Unit No. 1
 3. Work Performed by DlCo - Maint. Programs MWR #026429
Name Repair Organization P.O. No., Job No., etc.
Shippingport, PA 15077 Type Code Symbol Stamp Not Applicable
Address Authorization No. "
 4. Identification of System Recirculation Spray Expiration Date "
 5. (a) Applicable Construction Code Section III 68 Edition, W'68 Addenda, -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
RS-E-1A	Industrial Process	6301-1	3179	Recirc Spray Heat Ex.	1971	Repaired	Yes

7. Description of Work Replaced and seal welded diaphragms

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 * 1BVT 1.13.7

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-1 form attached. Diaphragms were removed to clean heat exchanger of blockages
Applicable Manufacturer's Data Reports to be 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 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 this Owner's Report during the period 1-10-94 to 2-10-94, 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 IN PA 2274
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-10 19 94

FORM I - MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
As required by the Provisions of the ASME Code Rules, Section III, Division 1

1. Manufactured by INDUSTRIAL PROCESS ENGINEERS, NEWARK, NEW JERSEY
 2. Manufactured for Stone & Webster Engineering Co. for Duquesne Light Co., Shippingport, Pa.
 3. Type Vess Kind Heat Exch. No. 636-1 Natl. Id. No. 179 Yr. Built 1971

4. SHELL: Material SA240-304L T.S. 70,000 Nominal Thickness 1/4 in. Allowance Q in. Diam. 2 Ft. 7 in. Length 11-7/8 Ft.

5. SEAMS: Long D.B.W. H.T. No R.T. complete Sectioned No Efficiency 100
 Girth S.B. & D.B.W. H.T. No R.T. complete Sectioned No No. of Coupons 4

6. HEADS (a) Material See Line 10 T.S. _____ (b) Material _____
 Location Thickness Crown Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Head Radius T.S. _____
 (a) _____
 (b) _____
 If removable, bolts used _____ Other fastening _____

7. STAYBOLTS: _____ If hollow _____ Attachment _____ Pitch _____ Dia. _____

8. JACKET CLOSURE: _____

9. Constructed for max. allowable work stress 150 psi at max. temp. 280 °F. Min. temp. (when less than -20°) _____ Test 250 psi

10. TUBE SHEETS: Stationary. Material SA240-304L Diam. 31 in. Thickness 1/4 in. Attachment Welded
 Floating. Material SA-213 304 Diam. _____ in. Thickness _____ in. Attachment _____

11. TUBES: Material TP304-L O.D. 5/8 in. Thickness 20 Gauge Number 850 Type Straight

12. SHELL Material SA515-70 T.S. 70,000 Nominal Thickness 7/16 in. Allowance Q in. Diam. 2 Ft. 7 in. Length 43/4 Ft.

13. SEAMS: Long D.B.W. H.T. Yes R.T. complete Sectioned No Efficiency 100
 Girth VB 3752-3-1(C) H.T. Yes R.T. complete Sectioned No No. of Coupons 1

14. HEADS (a) Material SA515-70 T.S. 70,000 (b) Material _____
 Location Thickness Crown Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Head Radius T.S. _____
 (a) Top, bottom, ends 1-13/16
 (b) Channel _____
 (c) Floating _____
 If removable, bolts used 24 Bolts 3/4" dia. SA193-B7

15. Constructed for max. allowable working stress 150 psi. Int. _____ Ext. _____ Test 225 psi

16. SAFETY VALVE _____

17. NOZZLES

Purpose (Int. or Ext. Use)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Shell	1	14 x 10	B.W. Rad	SA240-304L	1/4"	SA240-304L	Welded
Shell	1	14 x 12	B.W. Rad	SA240-304L	1/4"	SA240-304L	Welded
Shell	1	1/4"	Weld End	SA312	109	SA312	Welded
Shell	1	1/8"	Comp. Thr'd	SA193-B7	6090#	SA193-B7	Welded
Channel	2	1/4"	Weld End	SA53-B	438	SA53-B	Welded
Channel	2	1/2, 1"	Weld End	SA53-B	5, 1.80	SA53-B	Welded

18. INSPECTION Handholes No. _____ Size _____ Location _____
 OPENINGS Handholes No. _____ Size _____ Location _____
 No. _____ Size _____ Location _____
 19. SUPPORTS No. _____ Legs _____ Number _____ Legs _____ Number _____

Shell Welded
(Type & Size)

20. REMARKS: Re-circulation Spray Cooler, IEMA type CEX
Item No. RS-E-1A J.O. No. 11700 --BV-75
Contents: Shell Side -- Spray Water -- Tube Side --- River Water
Vessel Certified as ASME Code Sect. III Class "C" Unit by John H. Noble
Registered P. E. #11501, E. Commonwealth of Pennsylvania, and is constructed in
accordance with the Winter 1968 Addenda of ASME Sect. III, Article 21

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooler, etc. State contents of each part.)

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

Date December 22, 1971 signed Industrial Process Engineers Inc. D. B. Halloran
(Name of inspector)

Certificate of Authorization Expires December 31, 1973

6
0
7

CERTIFICATE OF SHOP INSPECTION

VESEL MADE BY Industrial Process Engineers at Newark, New Jersey

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N. J. and employed by The State of _____ have inspected the pressure vessel described in this manufacturer's data report on December 22, 1971 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

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 December 22, 1971

D. B. Halloran Commissions N. B. #6575 Penna. WC 1879
 Inspector's Signature National Board State or Province and No.

IM RS RS-E-1A P 2.4 1 75

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 _____ and employed by _____ of _____ have reviewed the statements in this manufacturer's data report

with the described pressure vessel and state that each referred to as a item _____ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief, the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME

Boiler and Pressure Vessel Code. The described vessel was inspected and subjected to a hydrostatic test _____ 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 _____

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

P

U N DIVISION I W PHT RT	INDUSTRIAL PROCESS ENGINEERS NEWARK, N.J.	
	SERIAL NUMBER: 6301-1	NATIONAL BOARD NO. 3179
	SHEET: 1	TUBE 150 PSI-INT
	MAX. WORK PRESS. 150 PSI	48 PSI-EXT
MAX. WORK TEMP. 280°F	280°F	
THICKNESS 1/4 3/16 1/8	HD. CVR. 1 1/8	
HYDRO TEST PRESS. 250 PSI	225 PSI	
STATE NUMBER <input type="text"/>	YEAR BUILT 1971	

CUST. ITEM NO. - RS-E-1A

M
KEYS CODE
RS
EQ. NO. NO
RS-E-1A
MAJOR
P
MINOR
24
D.S.
25



R. Day

11700 3475

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RECEIVED
 JAN - 5 1972
 STONE & WHISTLER
 ENGINEERING CORP.

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 1/27/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 Sheet 1 of 3

2. Plant Beaver Valley Power Station Unit No. 1
Name
Shippingport, PA 15077
Address
 MWR 025433
Repair Organization P.O. No., Job No. etc

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

4. Identification of System Recirculation Spray

5. (a) Applicable Construction Code Section III 68 Edition W'68 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)
RS-E-1C	Industrial Process	6301-3	3181	Recirc Spray Heat Ex.	1971	Repaired	Yes

7. Description of Work Replaced and seal welded diaphragms

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
*1BVT 1.13.7

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM D - MANUFACTURERS DATA REPORT FOR PRESSURE VESSELS
 As required by the provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by INDUSTRIAL PROCESS ENGINEERS, NEWARK, NEW JERSEY

2. Manufactured for Stone & Webster Eng. Co. for Duquesne Light Co., Shippingport, Pa.

3. Type Vert Kind Heat Exch. Vessel No. 6301-3 (Type, Jacketed, Heat Exch.) (Type, Jacketed) (Type, Jacketed) No. of Courses 3181 Yr. Built 1991

4. SHELL Material SA240-304L T.S. 70,000 Normal Thickness 1/4 Corrosion Allowance 0 In. Diam. 2 Ft. 7 In. Length 2 43/4 Ft.

5. SEAMS: Long D.B.W. H.T. No R.T. complete Efficiency 100 %
 (Welded, Del. Single, Lap, Butt) (Yes or No) (See or Complete) (Yes or No)

6. HEADS (a) Material See Line 10 T.S. 70,000 (b) Material SA515-70 T.S. 70,000 (c) Material SA515-70 T.S. 70,000
 Location Thickness Crown Radius Elliptical Ratio Control Apex Angle Hemispherical Radius Flat Diameter or Chord to Chord (Concave or Convex)

7. STAYBOLTS: (Material) SA193-B7 If hollow (Size of Hole) 3/4" Attachment (Threaded, Welded) Welded Pitch (Girth) 12" (Vert.) 12" (Horiz.)

8. JACKET CLOSURE: (Describe as open & weld, bar, etc. if bar, give dimensions, if banded, describe or sketch)

9. Constructed for max. allowable working press. 150 psi at max. temp. 280 °F. (when Min. temp. (when Hydrostatic Test 250 °F. less than -20°) (See or Complete) (See or Complete) Press 250 psi

10. TUBE SHEETS: Stationary. Material SA240-304L (Kind & Spec. No.) Diam. 31 In. Thickness 1/4 In. Attachment Welded (Welded, Bolted)

11. TUBES: Material TP304-L O.D. 5/8" In. Thickness 20 Gauge Number 850 Type Straight (Kind & Spec. No.) (Straight or U)

12. SHELL Material SA515-70 T.S. 70,000 Normal Thickness 7/16 Corrosion Allowance 0 In. Diam. 2 Ft. 7 In. Length 2 43/4 Ft.

13. SEAMS: Long D.B.W. H.T. Yes R.T. complete Efficiency 100 %
 (Welded, Del. Single, Lap, Butt) (Yes or No) (See or Complete) (Yes or No)

14. HEADS (a) Material SA515-70 T.S. 70,000 (b) Material SA515-70 T.S. 70,000 (c) Material SA515-70 T.S. 70,000

(a) Top, bottom, ends Thickness 1-13/16" Crown Radius 37" Elliptical Ratio 37" Control Apex Angle 37" Hemispherical Radius 37" Flat Diameter or Chord to Chord (Concave or Convex) 37"

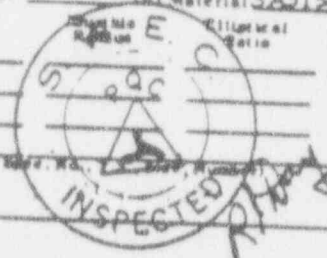
(b) 24 bolts - 3/4" dia. - SA193-B7 Other fastening (Describe or sketch)

15. Constructed for max. allowable working press. 150 psi-int. 48 psi-ext. 280 °F. (when Min. temp. (when Hydrostatic Test 225 °F. less than -20°) (See or Complete) (See or Complete) Press 225 psi

16. SAFETY VALVE OUTLETS: Number 1 Size 1/2" Location Top By Others None

17. NOZZLES

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	Non-Arched
Shell	1	14 x 10	B.W. Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	14 x 12	B.W. Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	1"	Weld End	SA 312	.109	SA240-304L	Welded
Shell	1	1/8"	Comp. Th'd	SA182F304L	.6000	SA182F304L	Welded
Channel	2	14"	Weld End	SA53-B	.438	SA515-70	Welded
Channel	2	1/2.1"	Weld End	SA53-B	Sch. 80	SA515-70	Welded



SYL CODE 19-12-91

P

FORM U-1 (back)

18. INSPECTION Manholes, No. _____ Size _____ Location _____
 OPENINGS Handholes, No. _____ Size _____ Location _____
 Flanges, No. _____ Size _____ Location _____
 19. SUPPORTS Shell _____ No _____ Legs Four _____ Legs _____ Other _____ Attached Shell Weld _____
(Yes or No) (Number) (Number)

20. REMARKS Recirculation Spray Cooler. TEMA Type -- CEN
Tag No. BS-11C. I.O. No. 11700. B.V. 75
Contents: Shell Side -- Spray Water, Tube Side -- River Water.
Vessel certified as ASME Code Sec. III, Class "C" Unit by John H. Noble,
Registered P.E. #11501, E. Commonwealth of Pennsylvania and is constructed in
accordance with the Winter 1968 Addenda of ASME Sect. III, Article 21.

(Brief description of purpose of the vessel, i.e. Air Tank, After Cooler, Jacketed Center, etc. Show contents of each part.)

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

Date December 14 19 71 Signed Industrial Process Engineers by D.P. Hall
(Name of Inspector)

0170 Certificate of Authorization Expires December 31, 1973

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Industrial Process Engineers at Newark, New Jersey

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

have inspected the pressure vessel described in this manufacturer's data report on December 10 19 71, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

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 December 14 19 71

[Signature] Inspector's Signature Commission NB 6575 Penna. WC-1879
Natl. Board, State, or 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 of Province _____ and employed by _____ of _____

have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items _____ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code. The described vessel was inspected and subjected to a hydrostatic test of _____ psi.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this 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 _____

[Signature] Inspector's Signature Commission _____
Natl. Board, State, or Province and No.

MRS. E. C. P. 24 1175

P

M
TYPE CODE
RS
EQ. ID. NO.
RS-E-10
MAJOR
P
MINOR
24
P.Q.
75

<div style="border: 1px solid black; padding: 5px; text-align: center;"> U DIVISION I W PHT RT </div>	INDUSTRIAL PROCESS ENGINEERS			
	NEWARK, N.J.			
	SERIAL NUMBER	6301-3	NATIONAL BOARD NO.	6101
		SHELL	TUBE	150 PSI
	MAX. WORK PRESS.	150 PSI		40 PSI + X
MAX. WORK TEMP.	200 F		200 F	
THICKNESS	1/4 5/16 7/16		40 CV 1/2	
HYDRO TEST PRESS.	250 PSI		225 PSI	
STATE NUMBER	 	YEAR BUILT	1975	

ITEM NO. - RS-E-10

11700 BV-75



Handwritten signature



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 1/27/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

3. Work Performed by DLCo - Maint. Programs
Name
Shippingport, PA 15077
Address

4. Identification of System Service Water

5. (a) Applicable Construction Code Section III 80 Edition, S'81 Addenda, -- Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is B3E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Sheet 1 of 2
 Unit No. 2
MWR 018116
Repair Organization P.O. No., Job No., etc.
 Type Code Symbol Stamp Not Applicable
 Authorization No. "
 Expiration Date "

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)
2SWS-SOV130B	Target Rock	4	--	83C-012	1984	Repaired	Yes

7. Description of Work Weld restored machined area of valve body, tack welded body-bonnet

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

*OST 2.30.17B
 NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks: NPV-1 form attached. Valve was disassembled to clean.
Applicable Manufacturer's Data Reports to be 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 Thomas J. White Senior Engineer Date February 4 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 this Owner's Report during the period 2-17-93 to 2-4-94 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.

John J. Jones Commissions NSB 314 Has P2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Feb 4 19 94

Pg. 4 of 6

FORM NPV-1 (Rev. 11-68)

Part No.	Material Spec. No.	Manufacturer	Remarks
Let Bolted			
Let Other Parts			
Bonnet	ASME SA 479 316	Universal Cylcops	
Disc	ASME SA 369 GR 630 17 1/2 PM	Universal Cylcops	
Indicator Tube	ASME SA 479 316	Inalyn Stainless Steel	
Seat Inners	ASME SA 479 316	Carpenter Tech	

8. Hydrostatic test 150 psi Over Differential test pressure 260 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 II, Part L, Edition 1980.

Authorized SUMNER 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 issue this certificate expires 12/9/86

CERTIFICATION OF DESIGN

Design information on file at Target Rock Corporation

Stress analysis report (Class I only) on file at _____

Design specifications certified by (1) E.F. Pfleger, John F. Karkis

PE State CT, PA Reg. No. 8809, 30388-E

Stress analysis certified by (1) _____

PE State _____ Reg. No. _____

(1) Signatures not required. List names only

CERTIFICATE OF SHOP INSPECTION

I, an 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.

at ROSELAND, MASS. have inspected the pump or valve described in this Data Report on _____ 19 84 and state that to the best of my knowledge and belief the ASME Certificate number has authorized the pump or valve in accordance with the ASME Code, Section II.

By signing this certificate, neither the inspector nor his employer makes any warranty expressed or implied, concerning the conditions 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

NEW YORK STATE COMMISSION NO. 2228
 AND COMMISSIONED BY PAUL G. O'NEIL, CHIEF & CLERK
 100 West Street, New York, N.Y. 10038

FORM NIS-2 (Back)

9 Remarks NPV-1 form attached. Valve was disassembled for cleaning.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE repair

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 Thomas J. White Senior Engineer Date February 4 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 this Owner's Report during the period 2-17-93 to 2-4-94 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.

John A. [Signature] Commissions NSB 314 and PS 245
Inspector's Signature National Board, State, Province, and Endorsements

Date July 4 19 94

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 1/26/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 1 of 2
Name
Shippingport, PA 15077
Address

3. Work Performed by DLCO - Maint. Programs Unit No. 2
Name
Shippingport, PA 15077
Address


MWR 018115
Repair Organization P.O. No., Job No. etc.

Type Code Symbol Stamp Not Applicable
 Authorization No. _____
 Expiration Date _____

4. Identification of System Service Water

5. (a) Applicable Construction Code Section III 80 Edition S'81 Addenda -- Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2SWS-SOV130A	Target Rock	3	--	83C-012		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
*OST 2.30.17B

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 IN 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 Outlet Size 2
(Inch) (Inch)

(a) Model No. (b) N Certificate Holder's Serial (c) Canadian Registration (d) Drawing No. (e) Class (f) Part 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 TREATMENT
QUENCH SPRAY SODIUM HYDROXIDE INJECTION
(Brief description of service for which equipment was designed)

6 Design Conditions 45 psi 120 °F or Valve Pressure Class 150 (1)

7 Cold Working Pressure 230 psi at 100°F

8 Pressure Retaining Pieces

Part No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
<u>Body</u>	<u>ASME SA 182F 316L</u>	<u>Carnel Forge</u>	
		<u>DUQUESNE LIGHT CO.</u>	
		<u>STONE & WEBSTER ENR.</u>	
		<u>BEAVER VALLEY UNIT 2</u>	
		<u>P.O. 12311 P.O. NO.</u>	

Supplemental sheets in form of sketches or drawings may be provided (1) ASME 8-12-81 information in items 1, 2 and 3 of this Data Report is included on each sheet and (2) each sheet is numbered and number of sheets is reported at top of this form.

ASME 8-12-81

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 1/27/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Sheet 1 of 2
Name
Shippingport, PA 15077
Address Unit No. 2
3. Work Performed by DLCO - Maint. Programs MWR #016956
Name
Shippingport, PA 15077
Address Repair Organization P.O. No., Job No. etc.
 Type Code Symbol Stamp Not Applicable
 Authorization No. "
 Expiration Date "
4. Identification of System Service Water System
5. (a) Applicable Construction Code Section III, 71 Edition S'72 Addenda 1672 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
2SWS-1104	Walworth	D63780	--	5341 BB WE	1977	Repaired	Yes
--	Crane-Aloyco	B0859	--	Disc	1991	Replacement	Yes

7. Description of Work Overhauled Valve Replaced Disc
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F

*OST 2.30.13B
 NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

3 Remarks NPV-1 form attached

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE replacement

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 Udo Senior Engineer - Date February 4 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 this Owner's Report during the period 2-14-93 to 2-4-94, 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.

John Yum Inspector's Signature Commission 138319 And P 2245
National Board, State, Province, and Endorsements

Date Feb 4 19 94

SERIAL NO: D63780
 MARK NO:
 TYPE:
 COMMENTS:

2505-1107

2BV-073

CD-31299-A42

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" Outlet Size 4"
(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) 5341 BB WE	D63780	N/A	SK-1952-180	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, J. O. No. 12241
 Carbon Steel Valves - 2 1/2 in. and Larger
 Category 1
 Walworth Company
 Greensburg, PA 15601

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

6. Design Conditions _____ (Pressure) _____ (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 items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.
 (1/76) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting Stud U550 Code "BM" Nut D078N Code "GR" Nut 16248J Code "B3"	SA-193, B7 SA-194, 2H SA-194, 2H	Wm. H. Haskell Mfg. Co. Wm. H. Haskell Mfg. Co. Duquesne Bolt Co.	
(d) Other Parts Plug 33728C Code "28"	SA-105, Gr. 2	Eric Fastener, Inc. Duquesne Light Company Beaver Valley Unit No. 2 P. O. No. 28V-73, J. O. No. 12241 Carbon Steel Valves - 2 1/2 in. and larger Category 1 Walworth Company Greensburg, PA 15601	

9. Hydrostatic test 425 psi

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1971, Addenda June 30, 1972, Code Case No. 1672, Date 5/17/77
 Signed Walworth Co. by G. J. M. Hill
 (Date) (Date)
 Our ASME Certificate of Authorization No. 950 to use the N symbol expires 1/6/78
 (IN) (NFV) (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
 063780
 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 & 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.
 Date 5-17-19 77 Commissions NB4207N
E. S. Smith (Inspector) (Nat'l Bd. State Prov. and No.)

00007

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 1/27/94
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR #025404
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. _____
Shippingport, PA 15077 Expiration Date _____
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code Section III 80 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)
2MSS-SOV105A	Target Rock	1	--	83C-007	1984	Repaired	Yes

7. Description of Work: Seal welded body to bonnet

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 *OST 2.24.4

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 form attached valve was disassembled to repair leak-by
and inadequate operation. Applicable Manufacturer's Data Reports to be 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] Service-Eng. Date Feb. 10 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 this Owner's Report during the period 11-23-93 to 2-10-94, 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 I J P 2274
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-10 19 94

SERIAL NO: 1
 MARK NO: 2MSS-SOV105A
 TYPE: 83C-007
 COMMENTS:

2BV-719

FORM NPV-T 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 3 Outlet Size 3
(Inch) (Inch)

	(a) Model 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	-----	83C-007	2	-----	1984
(2)	83C	2		83C-007	2		1984
(3)	83C	3		83C-007	2		1984
(4)	83C	4		83C-007	2		1984
(5)	83C	6		83C-007	2		1984
(6)							
(7)							
(8)							
(9)							
(10)							

5. STEAM ISOLATION TO AUXILIARY FEEDWATER PUMP TURBINE STEAM
(Brief description of service for which equipment was designed)

6. Design Conditions 1085 per 560 °F or Valve Pressure Class 600 (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 1480 per at 100°F
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
		DUQUESNE LIGHT CO. STONE & WEBSTER ENG. BEAVER VALLEY UNIT 2	
		PO NO <u>28V-719</u>	
		MARK NO <u>S/P 83C-007-1004-6</u>	
		VENDOR NAME	
(b) Forgings			
Body	ASME SA 105 CS	Cape Ann Tool Company	

RECEIVED
 AUG 3 1984
 Engineering Corporation
 Document Review

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11" (2) information in Items 1, 2 and 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.

FORM NPV-1 (Back)

Part No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Bonnet	ASME SA 479 SS 316	Universal Cyclops	
Main Disc	ASME SA 564 GR 630 SS	17-4 PH Universal Cyclops	
Indicator Tube	ASME SA 479, SS316	Joslyn Stainless Steel	
Seat Insert	ASME SA 479 SS 316L	Carpenter Technology	
Body Ends	ASME SA 596 CS	Cann and Saul Steel	

2. Hydrostatic Test 2225 (psi) Disk Differential Test Pressure 1630 (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 SUZDET 1981 Code Case No. Date
 Signed Target Rock Corporation G. Abruzzo, Mgr. of Quality
(In Certificate Holder)
 Our ASME Certificate of Authorization No. 1947 to use the N symbol expires 12/9/85
(in) Code

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, 30380 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 6/8 19 84 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.

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 6/8 1984 By William A. Anderson Commission No. NEW YORK STATE COMMISSION NO. 2288
(Inspector) ALSO COMMISSIONED IN Penn., Ohio & Calif.
(Mar) Bd. State, Prov. and 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 Date 1/27/94
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 3
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR 025469
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code Section III 80 Edition S'81 Addenda -- Code Case --
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2MSS-SOV105D	Target Rock	4	--	83C-007	1984	Repaired	Yes
--	Target Rock	336	--	Main Disc	1989	Replacement	Yes

7. Description of Work Replaced main disc and stem. Seal welded valves body to bonnet.

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

* OST 2.24.4

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 NPV-1 form attached disassembled valve to repair after it stuck shut.

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 Thomas J. White Senior Engr. Date Feb. 10 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 this Owner's Report during the period 11-26-93 to 2-10-94 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.

Thomas J. White Commissions IN-P3371
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-10 19 94

SERIAL NO: 4
 MARK NO: 2MSS-SDV105D
 TYPE: 83C-007
 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 3 Outlet Size 3
(Inch) (Inch)

(a) Model 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	-----	83C-007	2	-----	1984
(2) 83C	2		83C-007	2		1984
(3) 83C	3		83C-007	2		1984
(4) 83C	4		83C-007	2		1984
(5) 83C	6		83C-007	2		1984
(6)						
(7)						
(8)						
(9)						
(10)						

5. STEAM ISOLATION TO AUXILIARY FEEDWATER PUMP TURBINE STEAM
Brief description of service for which equipment was designed

6. Design Conditions 1085 psi 560 °F or Valve Pressure Class 600 (1)
(Pressure) (Temperature)
 7. Cold Working Pressure 1480 psi at 100°F
 8. Pressure Rating Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings		DUQUESNE LIGHT CO. STONE & WEBSTER ENG. BEAVER VALLEY UNIT 2	
		PO NO. <u>28V-719</u>	
		MARK NO. <u>S/A 83C-007</u>	
		VENDOR NAME	
(b) Forgings			
Body	ASME SA 105 CS	Cane Ann Tool Company	

RECEIVED

AUG 3 1984

Engineering Corporation
 Document Review

(1) For manually operated valves only

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11" (2) information in items 1, 2 and 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.

ASME NP-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Bonnet	ASME SA 479 SS 316	Universal Cyclops	
Main Disc	ASME SA 564 GR 630 SS	17-4 PH Universal Cyclops	
Indicator Tube	ASME SA 479, SS316	Joglyn Stainless Steel	
Seat Insert	ASME SA 479 SS 316L	Carpenter Technology	
Body Ends	ASME SA 696 CS	Gang and Saul Steel	

9. Hydraulic test 2225 psi. Disk Off normal test pressure 1630 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 SUBMIT 1981 Code Case No. Other

Signed Target Rock Corporation U. Abruzzo, Mgr. of Quality 10-5-84
(If Certificate Holder) to use the N symbol expires 12/9/86
(If) (Date)

Our ASME Certificate of Authorization No. 1947

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, 30380-2

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 Universal Cyclops, Inc. of Boston, Mass. have inspected the pump or valve described in this Data Report on 6/8 19 84 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.

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 6/8/84 W. J. Anderson 19 84
 Inspector Commissions ALSO COMMISSIONED IN Penn., Ohio & Calif.
(Natl. Bd. Spec. Prep. and No.)

NEW YORK STATE COMMISSION NO. 2288

D164947

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., 19668 Broadhollow Rd, S. Farmingdale, NY 11735
2. Manufactured for Duquesne Light Co., Pittsburgh, PA
3. Location of installation Beaver Valley Unit 1, Shippingport, PA
4. Type 1041220-3, Rev. C SA 564 GR 630 140 KSI N/A 1989
5. ASME Code, Section III: 1980 S 81 2 N/A
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
7. Remarks: Spare Part for a completed valve - 83C-004

Main Disc, P/N 300278-1

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

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 1-25.

Table with 2 columns: Part or Appurtenance Serial Number, National Board Number in Numerical Order. Rows 26-50.

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 260 (when applicable) at temp. °F A.M.B.

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form. (12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007 2300.

564547

Mfr. Serial No. _____

CERTIFICATION OF DESIGN

Design specifications certified by _____ P.E. State _____ Reg. no. _____
(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) _____ Part conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. 1948 Expires 12-9-89

Date 3/20/89 Name Target Rock Corporation Signed E. Bajada
(Certificate Holder) (authorized representative)
 E. Bajada, Q.A. Manager

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 Insurance Company of Boston, Mass. have inspected these items described in this Data Report on 3/21/89 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 3/21/89 Signed William J. Ireland NEW YORK STATE COMMISSION NO. 2288
(Authorized Inspector) ALSO COMMISSIONED IN PA, MD, VA & CO. (Nat'l. Bd. Incl. endorsements) state or prov. and no. 1

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 1/28/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 1 of 3
Name
Shippingport, PA 15077
Address Unit No. 2
MWR 809853
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Component Cooling - Primary

5. (a) Applicable Construction Code Section III 71 Edition W'72 Addenda _____ Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 83E-5'83A

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)
2CCP-MOV151-1	Henry Pratt	A0027-1-2	--	1100 Series	1978	Replaced	Yes
2CCP-MOV151-1	Henry Pratt	DD177-4-1	--	1100 Series	1993	Replacement	Yes

7. Description of Work Replaced Valve

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

*2BVT 1.47.5, OST 2.1.10, 2BVT 2.C2.2

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks _____

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE replacement

We certify that the statements made in the report are correct and this _____ 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 *Robert L. White* Senior Engr. Date Feb. 9 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 this Owner's Report during the period 5-14-92 to 2-9-94 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 L. White Commissions NB 314 DWL P 2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 9 19 94

SERIAL NO: A-0027-1-2
 MARK NO: 2CCP-MOV151-1
 TYPE:
 COMMENTS:

2BV-076

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 CORRECTED COPY*

1 Manufactured by Henry Pratt Co., 900 Duport Ave., Dixon, Ill. 61021 Drawing
 2 Manufactured for Beaver Valley Power Station Unit #2 Duquesne Light Company REV #2
 3 Location of Installation Pittsburgh, Penn. Shippingport, Penn. REV #3
 4 Pump or Valve Valve Nominal Inlet Size 18" Outlet Size 18" & Temp. 153°
(inch) (inch) Should be 150°

(a) Model No. (b) N Certificate Holder's (c) Canadian (d) Drawing (e) Part (f) Year
 Series No. Serial Registration No. 1st Class Bd No. Suit

(1) 1100 Series A-0027-1-2 N/A C-4924 Rev-2 2 N/A 1978
 (2) Duquesne Light Company NPOC
 (3) Beaver Valley Power Station - Unit 2
 (4) Stone & Webster Engineering Corp. AMI
 (5) Purchase Order 12BV-7B
 (6) Butterfly Valve
 (7) Tag No. 2CCP-MOV 151-1
 (8) Manufactured by Henry Pratt Co.
401 S. Highland Ave.

5 Fresh Water System ASME N-60507
(and description of service for which used)
18" 1100 Series w/ SBW0057 R28C

6 Design Conditions 153 psi 153° F or Valve Pressure Class 150 (1)
(Pressure) (Temperature)

7 Cold Working Pressure 275 psi at 100° F

8 Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
a) Coatings			
b) Forgings			
Top Shell	SA 564 Typ. 630 Cond. 1150° F	Cartech	HTF 76366 ✓
Bottom Shell	SA 564 Typ. 630 Cond. 1150° F	Cartech	HTF 76366 ✓

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

FORM NPV-1 (Back)

Mark No.	Material Spec No.	Manufacturer	Remarks
(c) Bolting			
Agglom Cover Bolt	SA 193 GR. B7	Erie Bolt Corp.	
Squeeze Pin	SA 193 GR. B7	CarTech	HTP 820582 ✓
Code AQ			
(d) Other Parts			
Body Shell	SA 516 GR. 55	Beth. Steel	HTP 801705430 ✓
S/N 987227 10-2			
Disc Plate	SA 516 GR. 70	Beth. Steel	HTP 807477 ✓
S/N 986066 70-2			
Disc Hub	SA 516 GR. 55	Beth. Steel	HTP 801726450 ✓
S/N 987948 10-10			
Bottom Cover	SA 516 GR. 70	Beth. Steel	HTP 801829860 ✓
Code AQ S/N 726			

Hydrostatic test 625 psi. One Differential test pressure N/A 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. 1597 & 1518.2 Date

Signed Henry Free Company by *H. A. Taylor*

Our ASME Certificate of Authorization No. W-1030 to use the (N) symbol expires May 6, 1981.

CERTIFICATION OF DESIGN

Design information on file at Henry Free Co., 401 S. Washington St., Chicago, IL 60607

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

Design specifications certified by (1) Carl Otto Richardson

PE State PA Reg. No. 16297-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 Illinois & PA and employed by H.S.B.I. & CO. have inspected the pump, or valve described in this Data Report on Hartford, Connecticut.

19 78 and state that in the best of my knowledge and belief, the 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 4-20-78 19 78

Commissions *Lee Swet* (Name, State, Firm and No.)

EM # 106535

FORM NPV-1 (back)

DISC HUB 1149882 LO-5 SA516 GR70 802X56380

8. Remarks BOTTOM COVER SA516 GR70 801529840 CODE A-0
VALVE ORIGINAL BUILT SERIAL D-0082-1-1. REFURBISHED SERIAL DD177-4-1.
CODE ADDENDA CHANGED TO WINTER 72 FROM SUMMER 73 PER DESIGN RECONCILIATION
CHANGED FROM CLASS 3 TO 2
9. Design conditions 155 BRC @ 70° (pressure) 9/29/93 (temperature) 155 150 °F or valve pressure class 150 (1)
10. Cold working pressure 285 psi at 100°F
11. Hydrostatic test 450 psi. Disk differential test pressure 168 psi

CERTIFICATION OF DESIGN

Design Specification certified by J.K. PARIKH P.E. State MISS Reg. no. 6539
 Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF SHOP 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-1030 Expires 5-96
 Date 9/29/93 Name HENRY PRATT COMPANY Signed BR Cummins
 (N 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 ILL. and employed by ALLENDALE INSURANCE of NORWOOD MASS. have inspected the pump, or valve, described in this Data Report on 9-29, 19 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 9/29/93 Signed [Signature] Commissions 40 917
 (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FACTORY MUTUAL ENG. ASSOCIATION

(1) For manually operated valves only.

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 1/28/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Sheet 1 of 2
Name
Shippingport, PA 15077
Address Unit No. 2
MWR 011190
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
4. Identification of System Safety Injection
5. (a) Applicable Construction Code Section III 19 74 Edition S'74 Addenda -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2SIS-130	Atwood-Morrill	31-13540	--	10" Check Valve	1980	Repaired	Yes

7. Description of Work Replaced Cover
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
 * 2BVT 1.47.11, OST 2.1.10

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks NPV-1 form attached replaced cover and seal ring with a new design per TER 7143.

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] Senior Eng. Date Feb 7 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 this Owner's Report during the period 2-8-92 to 2-9-94, 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 make any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 AB314 ANI P2245
Inspector's Signature National Board, State, Province, and Endorsements

Date February 9 19 94

SERIAL NO: 31-13540
 MARK NO:
 TYPE:
 COMMENTS:

2BV-020

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

2.

1. Manufactured by Atwood & Merrill Co., Inc. Salem, Mass. 01970
(Name and Address of Certificate Holder)
 2. Manufactured for Srons & Webster Engineering Corp. Boston, Mass.
(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 10" Outlet Size 10"
(Inch) (Inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year Built
(1) 10" Check Valve	31-13540	N/A	13540-13-H	2	N/A	1980
(2) Valve			Rev. 6			
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

Duquesne Light Co.
 Beaver Valley Unit 2
 P.O. No. 23V-20
 Mt. Check Valves
 4" and Larger
 Manufactured By
 Atwood & Merrill Co., Inc.
 205 Canal Street
 Salem, MA 01970

5. 10" Check Valve
(Brief description of service for which equipment was designed)
 6. Design Conditions 285 P 280 °F or Valve Pressure Class N/A (1)
Pressure (Compressural)
 7. Cold Working Pressure 3600 psi YY
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body RT# B257 HT# 317 F	SA 351 Gr. CFBM	Lebanon Steel Fdry.	S/W 31-13540
Disc RT# T1916 HT# E4660-1	SA 351 Gr. CFBM	Quaker Alloy	S/W 31-13540
(b) Forgings			
Cover HT# 21109	SA 182 Gr. F316	Cann & Saul	S/W 31-13540
Load Key HT# NX7642	SB 564	Cann & Saul	S/W 31-13540

(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.

Mark No	Material Spec No	Manufacturer	Remarks
ic) Bolting			
Stuffing Box			
Studs	SA 193 Gr. B8	Jos. Dyson & Sons	Code J58
Stuffing Box			
Nuts	SA 194 Gr. B	Jos. Dyson & Sons	Code J61
All Other Parts			
Stuffing Box			
Cover	SA 240 Gr. 304	Sandmeyer Steel Co. (ASME/N 318-13640)	
Wt. # 866041		Crucible Steel (MM)	S/N 318-13640

B. Hydrostatic test 5500 psi. Class Differential test pressure 3650 psi

012

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 1974 Code Case No. N/A Date N/A

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

Our ASME Certificate of Authorization No. N-1766 to use the M symbol expires 5-20-83
(Date)

CERTIFICATION OF DESIGN

Design information on file at STONE & WEDLER UNION LIGHT CO.
 Street analysis report (Class 1 only) on file at N/A Beaver Valley Unit 2
P.O. No. 2BV 20

Design specifications last fed by (1) Arthur W. Elliott Misc. Check Valves
 PE State PA Reg. No. 616-K 2 1/2" and Larger
 Stress analysis certified by (1) N/A Manufactured By
 PE State N/A Reg. No. N/A Atwood & Morrill Co., Inc.
285 Canal Street
Salem, MA 01970

(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 July 28 19 80 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 August 26 19 80
[Signature]
(Inspector)

Commissions NO-1222 - PENN WGRS14
(Nat'l. Bd., State, Prov. and 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
One Oxford Centre - Pittsburgh, PA 15279
Address

Date 1-28-94

Sheet 1 of 2

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2

MWR 016873

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 Recirculation Spray

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)
2RSS-32	Atwood Morrill	2-13540	--	12" Check Valve	1978	Repaired	Yes

7. Description of Work Replaced one bearing cover stud and two nuts

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
*2BVT 1.13.5

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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

NPV-1 Form 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] Senior Engineer Date February 2 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 this Owner's Report during the period February 12 93 to February 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] Inspector's Signature Commission NBB314 PA11 812245
 National Board, State, Province, and Endorsements

Date Feb 2 19 94

SERIAL NO: 2-13540
 MARK NO:
 TYPE:
 COMMENTS:

EBV-020

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 AIMWOOD & MORRILL CO., INC., Salem, Mass.
(Name and Address of Manufacturer)
 2. Manufactured for Sions & Webster Engineering Corp., Boston, Mass.
(Name and Address of Purchaser or Owner)
 3. Location of Installation Beaver Valley Power Station-Unit 2, Shipping port, Pa.
(Name and Address)
 4. Pump or Valve Valve Nominal Inlet Size 12" Outlet Size 12"

(1) Model No. or Type	(2) Manufacturer's Serial No.	(3) Connection Registration No.	(4) Drawing No.	(5) Class	(6) Mat'l. Sht. No.	(7) Year Built
(1) 12" Check Valve	2-13540	N/A	13540-01-M Rev B	2	N/A	1978
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. 12" Check Valve
(Brief description of service for which equipment was designed)
 6. Design Conditions 165 per 240
(Pressure) (Temperature) °F or Valve Pressure Class _____ (1)
 7. Cold Working Pressure 275 per at 100°F
 8. Pressure Retaining Pieces _____

Part No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	SA351, Gr. CF8	Quaker Alloy	S/N 2-13540
RI #R288			
HL #F427			
(b) Forgings			
Cover	SA182, Gr. F-304	Cann & Saul	S/N 2-13540
Ht. #10046			
Stuffing Box Cover	SA182, Gr. F-304	Cann & Saul	S/N 3-13540
HL #B21202			S/N 4-13540
Disc	SA182, Gr. F-304	Cann & Saul	S/N 3-13540
HL #78958			
Disc Post	SA182, Gr. F-304	Cann & Saul	S/N 3-13540
HL #B21202			

(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 (E00077) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

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 1/28/94
Sheet 1 of 4

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2
MWR 016874
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 Main Steam

5. (a) Applicable Construction Code Section III 71 Edition S'72 Addenda 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)
2MSS-18	Walworth	D66335	1832	5350SC	1978	Repaired	YEs
--	Crane-Aloyco	Co492	--	Cover	1991	Replacement	Yes
--	Crane-Aloyco	B0810	--	Disc	1990	Replacement	Yes

7. Description of Work Replaced valves disc and cover.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure _____ psi Test Temp. _____ °F
* 2BVT 1.60.6

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks _____
 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] Senior Eng. Date Feb. 7 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 this Owner's Report during the period 9-19-93 to 2-8-94 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] Commission T-1 P22274
Inspector's Signature National Board, State, Province, or B-3 Agreement

Date 2-8 19 94

Mark No.	Valve Seat No.	Manufacturer	Remarks
1014 - 44746 Code - "10"	SA 193, 37	A. E. C.	
1015 - 2113307 Code - "OK"	SA 194 2B	A. E. C.	
1016 - 3471 Code - "105"	SA-105	Bonney Forge Division	
			VALVE
			D06335
			SERIAL NO.

1. VALVE SEAT NO. 2175

CERTIFICATE OF COMPLIANCE

We certify that the equipment shown on this report was tested and that the design of valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section II, Div. 1, Edition 1971.

Issued June 30, 1972 Code Case No. 1074 Code 12-23-78

By Walworth Company Manufacturer

Our ASME Certificate of Authorization No. 1951 is valid for Y symbol 12/0/80

R. Knops
R. Knops

CERTIFICATION OF DESIGN

Design Manufacturer on 7, of Walworth Company, Greensburg, PA 15601

Design Material Spec. Code N/A

Design Manufacturer certified by (1) C. J. Richardson, Jr. Designing Light Company

of PA Reg. No. 2162973 Walworth Valley Unit No. 2

Design Material certified by (1) N/A P.O. Box 27173, P.O. No. 12248

of PA Reg. No. Category 1

1. Signature not required for design cert.

CERTIFICATE OF SHOP INSPECTION

The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of PENNSYLVANIA and approved by The BSB ISI Co.

on 12-23-78 have inspected the design of valve described in this Shop Report on 12-23-78 and have certified to the code of the drawings and design, the manufacturing and testing of this valve in accordance with the ASME Code, Section II.

By signing this certificate, neither the inspector nor the approver takes any liability, expressed or implied, concerning the suitability described in this Shop Report. Furthermore, neither the inspector nor the approver shall be held in any manner for any personal fault or directly or indirectly of a case of any and arising from or connected with the inspection.

Date 12-23-78

W. R. 153
W. R. 153

Commission NR 8153 PA 2227

N-5 DATA REPORT
ATTACHMENT 1

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 Main Steam System(M55)2-SR-21-07-M55 YEAR INSTALLED 1987
(After Serial No.)

Continued from Sheet 1

PARTS, COMPONENTS, & APPURTENANCES

(A) Item No.	(B) Parts, Components or Appurtenances	(C) Name of Certificate Holder	(D) Serial No.	(E) Canadian Reg. No.	(F) National Bd. No.	(G) Year Built	(H) Isometric & Isometric Item No.
1	VSS060-B-3	Dresser Ind.	H998AA0	N/A	N/A	1978	510-234 (ITEM#6)
2	VSS150-B-3	Kerotest Mfg. Corp.	PAB25-4	N/A	N/A	1982	100219 (ITEM#22)
3	VSS150-B-3	Kerotest Mfg. Corp.	PAB25-12	N/A	N/A	1982	100219 (ITEM#23)
4	VSS150-G-2	Kerotest Mfg. Corp.	HAX26-18	N/A	N/A	1981	100219 (ITEM#24)
5	VCW060-A-2	Walworth Co.	D-68242	N/A	1904	1979	100219 (ITEM#26)
6	VCW060-A-2	Walworth Co.	D-68241	N/A	1903	1979	100219 (ITEM#29)
7	VCW060-A-2	Walworth Co.	D-66327	N/A	1824	1978	100219 (ITEM#32)
8	VCW060-A-3	Walworth Co.	D63316	N/A	1288	1977	100219 (ITEM#1)
9	VCW060-A-3	Walworth Co.	D66250	N/A	1603	1977	100219 (ITEM#2)
10	VCW060-A-3	Walworth Co.	D66335	N/A	1832	1978	100219 (ITEM#3)
11	VSS150-B-3	Kerotest Mfg. Corp.	PAB25-6	N/A	N/A	1982	100219 (ITEM#4)
12	VSS150-B-3	Kerotest Mfg. Corp.	PAB25-2	N/A	N/A	1982	100219 (ITEM#5)
13	VSS150-B-3	Kerotest Mfg. Corp.	PAB25-5	N/A	N/A	1982	100219 (ITEM#6)
14	VSS150-B-3	Kerotest Mfg. Corp.	PAB25-19	N/A	N/A	1982	100219 (ITEM#7)
15	VSS150-B-3	Kerotest Mfg. Corp.	PAB25-13	N/A	N/A	1982	100219 (ITEM#8)

Continued on Sheet 4

Date 1/25/82 Schneider Power Corp. Signed [Signature]
NA Certificate holder

Date 1-2-87 [Signature] Commissions PA 22122
ANI Signature (Nat'l Board, State and No.)

Date 1/17/87 Stone & Webster Eng. Corp. Signed [Signature]
Certificate holder

Date 1/19/87 [Signature] Commissions PA20521
ANI Signature (Nat'l Board, State and No.)

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

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

Pg. 1 of 1

1. Manufactured and certified by CRANE-ALOYCO, INC., 104 N. CHICAGO STREET JOLIET, IL 60431
(name and address of NPT Certificate Holder)
2. Manufactured for DUQUESNE LIGHT COMPANY 301 GRANT ST. PITTSBURGH, PA. 15279
(name and address of purchaser)
3. Location of installation BEAVER VALLEY POWER STATION P.O. BOX 4 SHIPPINGPORT, PA. 15077
(name and address)
4. Type S-8417, REV. C SA216 GR-WCB 60,000 MIN. N/A 1991
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1980 WINTER, 1982 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: PO NO. D095284, CAI SALES ORDER NO. N-01684-001N

PART - COVER FOR A 3" 5350 WE, 600# SWING CHECK VALVE, ASSY. DWG. SK-1954-10, REV. E

NO HYDRO PERFORMED - SYSTEM HYDRO REQUIRED PER CODE.

8. Nom. thickness (in.) .625 Min. design thickness (in.) .31" Dia. ID (ft & in.) 9.375" 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) C0492	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)	
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(49)	
(50)	

10. Design pressure ANSI 600# psi. Temp. ANSI 600# °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

FORM N-2 (back)

Mfr. Serial No. C0492

CERTIFICATION OF DESIGN

Design specifications certified by ALAN J. FIORENTE (when applicable) P.E. State PA. Reg. no. 032366-E

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) PART - COVER conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2077 Expires APRIL 9, 1993

Date 10/30/91 Name CRANE-ALOYCO, INC. (NPT Certificate Holder) Signed [Signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of ILLINOIS and employed by *PROTECTION MUTUAL.

of NORWOOD, MASS. have inspected these items described in this Data Report on 10/30/91 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 10/30/91 Signed [Signature] Authorized Inspector Commissions N-10168 ILL-1498 (Ill.) FA. N-3386 (Nat. Bd. incl. endorsements, state or orb. and nu.)

*FACTORY MUTUAL SYSTEM

**FORM N-3 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL
NUCLEAR PARTS AND APPURTENANCES***

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

Pg. of

1. Manufactured and certified by FAIR-VOICCO, INC., 12 EAST DEERWOOD, EMERYVILLE, IL 60441-1549
(Name and address of manufacturer) 15279

2. Manufactured for DIWIDENE LIGHT COMPANY, ONE CEDAR CENTRE, 101 GRANT STREET, PITTSBURGH, PA
(Name and address of purchaser)

3. Location of installation BEAVER VALLEY-UNIT 1, P.O. BOX 4, SHIPPINGPORT, PA 15077
(Name and address)

4. Type CAG029A, REV. B SA105 80.100 N/A 1990
(Drawing no.) (ASME Code, Sec. III) (ASME Code, Sec. III) (ASME Code, Sec. III) (Year built)

5. ASME Code, Section III: 1971 HIBOOK 1972 2 N/A
(Edition) (Edition date) (Class) (Code Category)

6. Fabricated in accordance with Const. Specs. (Div. 2 only) N/A Revision N/A Date N/A
CAI S.O.#W01520-001, CUST. P.O.#D091478, C/0901

7. Remarks: FOR: 3"-5350WL, 600# SWING CHECK VALVE, ASS'Y, DWG.#87-1954-9, REV.G, IT.#3
APC.) DISC. P/N F46CAG029A

SUPPLIER/MFR.: COULTER STEEL & FORGE COMPANY, HT.#29441

8. Nom. thickness (in.) N/A Min. design thick. (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: 50

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) <u>B0809</u>	<u>N/A</u>	(26)	
(2) <u>B0810</u>	<u>N/A</u>	(27)	
(3) <u>B0811</u>	<u>N/A</u>	(28)	
(4) <u>B0812</u>	<u>N/A</u>	(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
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(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A p.s.i. Temp. N/A °F. Hydr. test pressure N/A at temp. °F
(When applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) they are 9 1/2 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/88) This form (800040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

ALAN J. FIORENTE

PA Reg. no. 0323

N/A

N/A Reg. no. N/A

CERTIFICATE OF SHOP COMPLIANCE

PARTS

We hereby certify that the components made in this report are correct and that they conform to the rules of construction of the ASME Code, Section II.

NPT Certificate of Authorization No. H-2077

Expires APRIL 9, 1993

Date 9/26/90 Name CRANE-ALOYCO, INC.

Signed [Signature] Authorized Representative

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ILLINOIS and employed by *PROTECTION MUTUAL of NORWOOD, MASS, have inspected these items described in this Data Report on 7-26-90, and state that

best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code. 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 of any kind arising from or connected with this inspection.

Date 9/26/90 Signed CMI O'Keefe Authorized Inspector

Commissioners 100 917

*FACTORY MUTUAL SYSTEM

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 1-29-94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 1 of 2
Name
Shippingport, PA 15077
Address

3. Work Performed by DLCo - Maint. Programs Unit No. 2
Name MWR #017339
Repair Organization P.O. No., Job No., etc.
 Type Code Symbol Stamp Not Applicable
 Authorization No. "
 Expiration Date "

4. Identification of System Primary Drains

5. (a) Applicable Construction Code Section III, 74 Edition, S'74 Addenda, -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2DAS-RV110	Dresser Ind.	DG-36569	--	1 1/2" Safety Relief	1985	Repaired	Yes

7. Description of Work Machined Valve Seats

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2BVT 1.60.5, 2BVT 1.47.5 Test Temp. " °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

NV-1 Form Attached. Valve seats were fouled and chattered.

9 Remarks

Applicable Manufacturer's Data Reports to be 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

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 February 2 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 2-26-93 to 2-9-94, 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.

[Signature] Inspector's Signature *Factory Mutual Engr. Assn. Commission NB 2311 ANI P 2245 National Board, State, Province, and Endorsements

Date February 9 19 94

SERIAL NO: TG-36569
 MARK NO: 2DAS-RV110
 TYPE:
 COMMENTS:

2BV-657

INDUSTRIAL VALVE
 OPERATIONS

FORM NO. 1 - CERTIFICATE HOLDERS DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES*
 (AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION III, DIV. 1)

1 MANUFACTURED BY INDUSTRIAL VALVE OPERATIONS, BRESSER INDUSTRIES INC HIGHWAY 71 NORTH ALEXANDRIA, LA
 (NAME AND ADDRESS OF A CERTIFICATE HOLDER)
Duponts Light Co., P.O. Box 186 Shippingport, PA 15077

2 LOCATION OF INSTALLATION Duponts Light Co., Beaver Valley Par.Sta., Unit 2, Shippingport
 (NAME AND ADDRESS)
PA 15077
MC3011 N/A 1985

3 VALVE 1-1/2" 1905G-1-XR33-MC3011 (ORIFICE NO.) (NOM. ORIF. NO.) (YEAR BUILT)
 IDENTIFYING NOS. TG-36569
 (MODEL NO. SERIES NO.) (IN CERTIFICATE HOLDERS' SERIAL NO.)
Safety Relief 2

4 TYPE Safety Relief CLASS 2
 (SAFETY, SAFETY RELIEF, PILET, POWER ACTUATED)
 ORIFICE SIZE .863 INCH NOMINAL INLET SIZE 1-1/2 INCH OUTLET SIZE 2-1/2 INCH

5 SET PRESSURE (PSIG) 70 RATED TEMPERATURE Saturated °F

6 STAMPED CAPACITY 2351 (LB. NO. 10) OVERPRESSURE BLOWDOWN (PSIG) 4
SAT. STEAM

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

	SERIAL NO. OR IDENTIFICATION	MATERIAL SPECIFICATION INCL. TYPE OR GRADE
BODY	AA235	SA216, GR. WCB
NOCKET OR YOKER	AA603	SA216, GR. WCB
SUPPORT BUSH		
NOZZLE	AA231	SA182, GR. F316
DISC	AA243	SA479, Type 316
SPRING WASHERS	116035	SA105
ADJUSTING SCREW	YG2946	SA479, Type 410
SPINDLE	YG2946	SA479, Type 410
SPRING	80283621	AP598 A229, CLASS 1
BOLTING	Studs 1192	SA193, GR. B7
OTHER PIECES		
Nuts	N-31592	SA194, GR. 2H
Disc Holder	A12590	SA479, Type 316

*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 1-7 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

**See 450 PSIG
 Disc 5575 PSIG
 Nozzle 5575 PSIG

RECEIVED

MAY 1 1985

Stone & Webster
 Engineering Corporation
 Document Review

FORM NO. 542A

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV 1, 1974 EDITION, ADDENDA Supplement 1974 (DATE), CODE CASE NO. 107A

I.V.O. Dresser Ind., Inc. BY [Signature] (IN CERTIFICATE HOLDER)

THIS ASME CERTIFICATE OF APPROVALIZATION NO. N-1747 IS USE THE IV SYMBOL EXPIRES May 20, 1986 (DATE)

CERTIFICATION OF DESIGN

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

STRESS ANALYSIS REPORT (CLASS I ONLY) ON FILE AT _____

DESIGN SPECIFICATIONS CERTIFIED BY K. Martin Handikown

IN STATE Pennsylvania REG. NO. 275488

STRESS REPORT CERTIFIED BY _____

IN STATE _____ REG. NO. _____

¹ SIGNATURE NOT REQUIRED—LIST NAME ONLY

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF LOUISIANA AND EMPLOYED BY THE BARTFORD STEAM BOILER & I COMPANY OF BARTFORD, COLO. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 4/18 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 FOR NUCLEAR POWER PLANT COMPONENTS.

BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT, FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

RATE 4/18 SIGNED [Signature] COMMISSIONS Pennsylvania UC 2605

(INSPECTOR) (NAT'L OR STATE PROV AND NO)

RECEIVED

MAY 1 1985

Sl... Webster
Engineering Corporation
Bartford, Colorado

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 1/29/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR 025219
Repair Organization P.O. No., Job No. etc.

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

4. Identification of System Service Water

5. (a) Applicable Construction Code Section III 19 77 Edition, S'79 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)
2SWS-694	Henry Vogt	29-214959	--	E-48615	1983	Repaired	Yes
--	Henry Vogt		--	Bonnet and Gate	1985	Replacement	Yes

7. Description of Work: Replaced valves bonnet and gate

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 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks NPV-1 form attached. Removed bonnet and gate from valve
S/N 215225 and installed at 2SWS-694.

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. 7 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 this Owner's Report during the period 11-17-93 to 2-15-94 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.

[Signature] NSB 314 RWI B 2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 15 19 94

REVISION 10/13/53

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

1. Manufactured by Henry Vogt Machine Co., Louisville, KY
(Name and Address of N Certificate Holder)

2. Manufactured for Duquesne Light Co., Pittsburgh, PA
(Name and Address of Purchaser or Owner)

3. Location of Installation Beaver Valley Power Station - Unit #2, Shippenport, PA
(Name and Address)

4. Pump or Valve Gate Valve Nominal Inlet Size 1 1/2" Outlet Size 1 1/2"
(INCH) (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. Bd. No.	(g) Test
(1) Gate	27-214959	---	E-48113	3	---	1495
(2) Gate	28-214959 ✓	---	E-48113	3	---	1495
(3) Gate	29-214959 ✓	---	E-48113	3	---	1495
(4) Gate	30-214959	---	E-48113	3	---	1495
(5) Gate	31-214959 ✓	---	E-48113	3	---	1495
(6) Gate	32-214959	---	E-48113	3	---	1495
(7)						
(8)						
(9)						
(10)						

5. General description of service for which equipment was designed

6. Design Conditions 225 1-80 100F 500
 (Pressure) (Temperature) (Design Valve Pressure Class)
 * Cold Working Pressure 225 1-80 100F
 (psi) (psi) (at 100F)

8. Pressure Retaining Pieces

Mark No	Material Spec No	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body			
R3896A	SA-105	Vogt	
Bonnet			
R3031	SA-105	Vogt	

RECEIVED

(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.

Mark No.	Material Spec No.	Manufacturer	Remarks
(c) Bolting			
Cap Screw			
B7	SA 193 Gr. B7	Texas Bolt	
(d) Other Parts			
Gate			
DDE	SA 479 1-10 (Chemistry Bolt)		

9. Hydrostatic test 2225 psi Disk Differential 1000 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 1979, Addenda Summer '79, Code Case No. , Date .

Signed Henry Vogt Machine Co. by [Signature]
(In Certificate Holder's Name)

Our ASME Certificate of Authorization No. to use the symbol applies Date

CERTIFICATION OF DESIGN

Design information on file at Henry Vogt Machine Co.
 Stress analysis report (Class 1 only) on file at

Design specifications certified by (1) Stephen A. Shuman
 PE State PA Reg. No. PE-5716-2

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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump or valve described in this Data Report on August 12, 1983 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.

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 August 24, 1983
[Signature] Commissions Pennsylvania #1076
(Inspector)

N-5 DATA REPORT
ATTACHMENT 1

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-30-12-SWS YEAR INSTALLED 1986
(N.P. Serial No.)

Continued from Sheet 1

PARTS, COMPONENTS, & APPURTENANCES

(A) Item No.	(B) Parts, Components or Appurtenances	(C) Name of Certificate Holder	(D) Serial No.	(E) Canadian Reg. No.	(F) National Bd. No.	(G) Year Built	(H) Isometric & Isometric Item No.
1	VGS060-BZ-3	Henry Vogt Co.	43-214959	N/A	N/A	1983	311-014 (ITEM#6)
2	VOS060-C-3	Dresser Ind.	H386AAE	N/A	N/A	1978	311-014 (ITEM#7)
3	VCS060-AZ-3	Henry Vogt Co.	12-214959	N/A	N/A	1983	311-014 (ITEM#12)
4	VGS060-BZ-3	Henry Vogt Co.	100-214959	N/A	N/A	1983	311-014 (ITEM#15)
5	VGS060-BZ-3	Henry Vogt Co.	91-214959	N/A	N/A	1983	311-014 (ITEM#16)
6	VCS060-B-3	Dresser Ind.	H115AAE	N/A	N/A	1978	311-014 (ITEM#17)
7	2SWS*STR84	Leslie Co.	A8239-14RWP	N/A	N/A	1980	311-014 (ITEM#18)
8	2SWS*PCV117B	Target Rock Corp.	2	N/A	N/A	1984	311-014 (ITEM#25)
9	VGS060-BZ-3	Henry Vogt Co.	31-214959	N/A	N/A	1983	311-010 (ITEM#4)
10	VGS060-BZ-3	Henry Vogt Co.	29-214959	N/A	N/A	1983	311-010 (ITEM#5)
11	VGS060-BZ-3	Henry Vogt Co.	28-214959	N/A	N/A	1983	311-010 (ITEM#6)
12	VBS015-Z-3	Contromatics	85332-23-4	N/A	N/A	1983	311-010 (ITEM#9)
13	VGW015-A-3	Walworth	D-69756	N/A	1949	1980	106402 (ITEM#2)
14	2SWS*SOV130B	Target Rock Corp.	4	N/A	N/A	1984	106402 (ITEM#19)
15	2SWS*STRM48	Zurn Ind.	9810	N/A	41	1982	106402 (ITEM#4)

Continued on Sheet 4

Date 11/4/86 Schneider Power Corp. Signed [Signature]
NA Certificate Holder

Date 11-21-86 [Signature] Commissions PA 2311N
ANI Signature

Date 11/28/86 Stone & Webster Eng. Corp. Signed [Signature]
NA Certificate Holder

Date 11-29-86 [Signature] Commissions PA 23260
ANI Signature (Nat'l Board, State and No.)

D04374

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 Henry Vogt Machine Co., Louisville, KY
(Name and Address of N Certificate Holder)
2. Manufactured for Duquesne Light Co., Pittsburgh, PA
(Name and Address of Purchaser or Owner)
3. Location of Installation Beaver Valley Unit No. 1, Shippingport, PA
(Name and Address)
4. Pump or Valve Gate Valve Nominal Inlet Size 1 1/2" Outlet Size 1 1/2"
(Inch) (Inch)

	(a) Model 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)	Gate	1-215225	---	E-48615	2	---	1985
(2)	Gate	2-215225	---	E-48615	2	---	1985
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions _____ psi _____ °F or Valve Pressure Class _____ 600 (1)
(Pressure) (Temperature)

7. Cold Working Pressure 1480 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body			
R4638A	SA 105	Vogt	
Bonnet			
R4615A	SA 105	Vogt	

(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 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.

224374

FORM NPV-1 (Book)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cap Screw B7	SA 193 Grade B7	Texas Bolt	
(d) Other Parts			
Gate HDH	SA 479 T.410 (Chemistry Only)	Vogt	

9. Hydrostatic test 2225 psi. Disk Differential test pressure 1630 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I., Edition 1977, Addenda Summer '79, Code Case No. ----, Date Dec. 19, 1985.

Signed Henry Vogt Machine Co. by W. Allen Brown
(IN Certificate Holder)

Our ASME Certificate of Authorization No. 947 to use the N symbol expires 1/6/87
(N) (Date)

CERTIFICATION OF DESIGN

Design information on file at Henry Vogt Machine Co.
Stress analysis report (Class 1 only) on file at _____

Design specifications certified by (1) Stephen A. Shuman
PE State PA Reg. No. PE 30264-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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on Sept. 25, 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 December 19, 1985
[Signature] Commissions Pennsylvania 3386
(Inspector) (Nat'l Bd., State, Prov. and 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 Date 1/31/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 2
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #16902
Repair Organization P.O. No., Job No. etc.
3. Work Performed by DLCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
4. Identification of System Steam Vent
5. (a) Applicable Construction Code Section III 74 Edition S'74 Addenda -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
2SVS-80	Atwood Morrill	3-13540-28		6" Check Valve	1983	Repaired	Yes
7/8" Stud	Cardinal Ind. Products			HT #8098719		Replacement	Yes

7. Description of Work Replaced Disc
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F
2BVT 1.60.6

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks NPW-1 Form 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 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 Constantine J. Davis Date 2/2 19 97
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 this Owner's Report during the period 2-14-93 to 2-2-94 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 NB314 and PA2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Feb 2 19 94

D1 21046
25VS-80

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 Power Station, Shippingport, PA 15077
(name and address)
4. Type: *C-80019 Rev. 0 SA351-CF8M 84.2 Ksi N/A 1993
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1974 Summer 1974 2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks *Dwg. prepared by A&M; A&M S.O.#25119; 2 Discs for 6" Check Valve, A&M Valve Ass'y Dwg. H-13540-28 REV. 1; This certification meets the required information of 1974 Edition, Summer 1974 Addenda. **Nom. Thickness: S/N 1-1.02, S/N 2-1.03
8. Nom. thickness (in.) ** Min. design thickness (in.) .88 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>H8205-1</u>	<u>N/A</u>
(2) <u>H8205-2</u>	<u>N/A</u>
(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 1100 psi. Temp. 560 °F. Hydro. test pressure N/A at temp. °F
(when applicable)

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

Certificate Holder's Serial Nos. H8205-1 through H8205-2

CERTIFICATION OF DESIGN

Design specifications certified by Walter J. Parker, Jr. P.E. State PA Reg. no. 29003-F
(when applicable)

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) (2) Discs
 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 Sept. 22, 1993 Name Atwood & Morrill Co., Inc. Signed Samuel N. Shields VP Eng.
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of 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 22, 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 9/22/93 Signed JR Burke Commissions NB11002(N.A) NY5061
(Authorized Inspector) (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, Sec. III, Div. 1 A REVISED COPY

1. Manufactured by Atwood & Morrill Co., Inc. Salem, Mass. 01970
(Name and Address of N Certificate Holder)
2. Manufactured for Stone & Webster Engineering Corp. Boston, Mass. (For Unique License)
(Name and Address of Purchaser or User)
3. Location of Installation Beaver Valley Power Station, Shippenport, PA.
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 6 (inch) Outlet Size 6 (inch)

	(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Next Bd No.	(g) Year
(1)	6" Check Valve	3-13540-28	N/A	13540-28	2	N/A	1983
(2)				Rev. 1			
(3)							
(4)							
(5)							
(6)							
(7)	* Revised to update drawing rev. level						
(8)							
(9)							
(10)							

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

6. Design Conditions 1100 psi 560 °F or Valve Pressure Class N/A (1)
(Pressure) (Temperature)

7. Cold Working Pressure 1440 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body RT # Y161	SA 216 Gr. WCB	Quaker Alloy	Ht. # F5225
Disc RT # XR2098	SA 351 Gr. CF8M	Quaker Alloy	Ht. # X5705
(b) Forgings			
N/A			
		Duquesne Light Co. Beaver Valley Unit 2 P.O. No. 28V-20 Misc. Check Valves 2 1/2" and Larger Manufactured By Atwood & Morrill Co., Inc. 285 Canal Street Saferri, MA 01970	

(1) For manually operated valves only

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufact.	Remarks
(c) Bolting			
Cover Studs	SA 193 Gr. B7	Ranson Mfg. Inc.	Trace # 04
Cover Nuts	SA 194 Gr. 2H	Ranson Mfg. Inc.	Trace # N46
(d) Other Parts			
Covers*	SA 515 Gr. 70	Mills Alloy Steel	Ht. #D2900-300

9. Hydrostatic test 2200 psi Disk Differential test pressure 1500 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 Summer 1974 (Date) Code Case No. N/A Date N/A
 Signed Atwood & Morrill Co., Inc. by John M. Conroy RA MGR 1/11/84
 (In Certificate Holder)
 Our ASME Certificate of Authorization No. N-2606 to use the N 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) Walter J. Parker, Jr. Duquesne Light Co
 PE State PA Reg. No. 29003-F Beaver Valley Unit 2
 Stress analysis certified by (1) N/A P.O. No. 28V-20
 PE State N/A Reg. No. N/A Misc. Check Valves
 2 1/2" and Larger
 Manufactured By
 Atwood & Morrill Co., Inc.
 285 Canal Street
 Salem, MA 01970

(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 Aug 30 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.

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 1/31/94
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 Sheet 1 of 2
 2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address
 MWR #16903
Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DLCo - Maint. Programs Type Code Symbol Stamp Not Applicable
Name
Shippingport, PA 15077
Address
 Authorization No. "
 Expiration Date "
 4. Identification of System Steam Vent

5. (a) Applicable Construction Code Section III 74 Edition S'74 Addenda -- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
2SVS-81	Atwood Morrill	1-13540-28		5" Check Valve	1984	Repaired	Yes

7. Description of Work: Replaced Valve Disc

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2BVT 1.60.5 psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks NPV-1 Form 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 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 Constantine J. Davis Date 2/2/94 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 this Owner's Report during the period 2-14-93 to 2-2-94, 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.

Inspector's Signature [Signature] Commission NB&314ANI P2245
National Board, State, Province, and Endorsements

Date Feb 2 1994

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. Salem, MA, 01970
(Name and Address of N Certificate holder)
2. Manufactured for Stone & Webster Engineering Corp., Boston, MA, (For Duquesne Light)
(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 6 Outlet Size 6
(Inch) (Inch)

	(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Ref'l. Bd. No.	(g) Year Built
	(1)	6" Check Valve	1-13540-28	N/A	13540-28 Rev. 1	2	N/A	1984
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions 1100 psi 560 °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure 1440 psi at 100°F.
8. Pressure Retaining Pieces

Part No.	Material Spec. No.	Manufacturer	Remarks
Let Castings			
Body	SA 216 Gr. VCB	Quaker Alloy	HC. # FS225-15
Disc	SA 351 Gr. CF8M	Quaker Alloy	HC. # X5814-1
Let Forgings			
N/A			

RECEIVED
FEB 10 1984
Stone & Webster
Engineering Corporation
Document Review

(1) For manually operated valves only.
* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 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.

FORM NPV-1 (Back)

Mark No	Material Spec No	Manufacturer	Remarks
(c) Bolting			
Cover Studs	SA 193 Gr. A7	Bonson Mfg. Inc.	Trace No. 08
Cover Nuts	SA 194 Gr. 2H	Bonson Mfg. Inc.	Trace No. 446
(d) Other Parts			
Cover	SA 515 Gr. 70	Mills Alloy Steel	Mr. # 01900-390

8. Hydrostatic test 2200 psi. Dead Differential test pressure 1500 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 Summer 1974, Code Case No. N/A, Date N/A

Signed Atwood & Morrill Co., Inc. by John M. Conroy P.E. M.S.C.E. 1/30/84
(or Certificate Holder)

Our ASME Certificate of Authorization No. N-2606 to use this N 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) Walter J. Parker, Jr. FEB 10 1984
 PE State PA, Reg. No. 29003-F
 Stone & Webster
 Engineering Corporation
 Document Review

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 1-30 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 1-30 1984
Russell D. Sullivan Commission MA1218 WC2964
(Inspector) (Ref. to Sec. 1, Subsec. 1, and Sec. 2)

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 2/1/94

Sheet 1 of 2

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2

MWR 23896

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 Recirculation Spray

5. (a) Applicable Construction Code Section III 71 Edition S'72 Addenda -- Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
2RSS-E21D	Joseph Vat Corp.	2189-D	893	Vertical Heat Exchanger	1976	Repaired	YES

7. Description of Work Plugged and welded nine tubes

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9 Remarks N-1 Form Attached

 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE Repair

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] Date 2/2 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 this Owner's Report during the period 10-11-93 to 2-2-94, 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 105314 and P12245
 Inspector's Signature National Board, State, Province, and Endorsements

Date Feb 2 19 94

Duquesne Light Co.
Beaver Valley Unit #2
Shippingport, Pa.
213-1212 704122
ASME 8110

1. Manufactured by Joseph D. Corporation, Camden, New Jersey
(Name and address of Manufacturer)
2. Manufactured for Duquesne Light Co., Beaver Valley Unit #2 Shippingport, Pa.
(Name and address of Purchaser)
3. Type Vert Kind Heat Ex. Vessel No. (2189-0) () () Nat'l Bd. No. 893 Yr. Built 1976
(Horiz. or Vert.) (Tank, Jacketed, Heat Ex.) (Mfrs. Serial No.) (State & State No.)
3a. Applicable ASME Code: Section III, Edition 1971, Addenda date Summer 72, Case No. 2

Items 4-8 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell: Material SA240-304 T.S. 75,000 Nominal Thickness 3/8 in. Corrosion Allowance 0 in. Dia. 2 ft. 9 1/2 in. Length 36 ft. 8 5/8 in.
(Kind & Spec. No.) (Min. of range specified)
5. Seams: Long DBL Welded H.T.¹ No R.T. Complete Efficiency 100 %
Girth DBL Welded H.T.¹ No R.T. Complete No. of Courses 5
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 _____ (Describe as edge & weld, bar, etc. If bar give dimensions, describe or sketch)
Drop Weight _____ Pneumatic
Charpy Impact _____ ft-lb Hydrostatic or } Test Pressure 408 psi
Combination }
8. Design Pressure² 250 psi at 250 °F at temp. of _____ °F.

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material SA240-304 Dia. 34 in. Thickness 1 1/2 in. Attachment Welded
(Kind & Spec. No.) (Subject to press.) (Welded, Bolted)
Floating. Material _____ Dia. _____ in. Thickness _____ in. Attachment _____
10. Tubes: Material SA249-304 O.D. 5/8 in. Thickness 20 inches or gage _____ Number 1148 Type Straight
(Kind & Spec. No.) (Straight or U)

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

11. Shell: Material SA515 T.S. 70,000 Nominal Thickness 7/16 in. Corrosion Allowance 1/8 in. Dia. 2 ft. 9 1/8 in. Length 2 ft. 1 3/4 in.
(Kind & Spec. No.) (Min. of range specified)
12. Seams: Long DBL Welded H.T.¹ Yes R.T. Complete Efficiency 100 %
(Welded, Dbl., Single) (Yes or No)
Girth DBL Welded H.T.¹ Yes R.T. Complete No. of Courses 1

13. Heads: (a) Material SA 515 T.S. 70,000 (b) Material _____ T.S. _____ (c) Material _____ T.S. _____
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Convex or Concave)
(a) Top, bottom, ends 2 1/2 --- --- --- --- --- 38 in. Flat
(b) Channel _____
(c) Floating _____

(SA193-87) (125,000) (7/8) (36)
If removable, bolts used (a) _____ (b) _____ (c) _____ Other fastening _____ (Describe or attach sketch)
Drop weight _____ Pneumatic
Charpy Impact _____ ft-lb Hydrostatic or } Test Pressure 225 psi
Combination }

14. Design pressure² 150 psi at 250 °F at temp. of _____ °F.

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

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number _____ Size _____ Location in piping

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Inlet, Outlet 2 (1 ea)	2	16"	Pipe	SA53 B	SCH 40	SA 515-70	Welded
Drain	1	1"	Cplq.	SA182-304	3000#	None	Welded
Inlet, Outlet 2 (1 ea)	2	12"	Plt	SA240-304	3/8	SA240-304	Welded

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

Openings: Handholes, No. _____ Size _____ Location _____

Threaded, No. 2 Size 1/2" Location 1 Top & Btm Tubesheet

2 (1 ea) 3/4" + 1" In Top & Btm Channel Covers

18. Supports: Skirt _____ Lugs 4 Legs _____ Other _____ Attached Shell Welded
(Yes or No) (Number) (Number) (Describe) (Where & How)

19. Remarks: Vessel is a recirculating spray cooler.

Shell inlet & outlet nozzles are conical
Inlet is 16" x 12" Outlet is 14" x 12"

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

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

Stress analysis report on file at Stone & Webster Eng., Boston Mass.

Design specifications certified by Carlotta Richardson Prof. Eng. State Pa. Reg. No. 016297-E

Stress analysis report certified by Krishina Pal Singh Prof. Eng. State Pa. Reg. No. 20906-E

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

Date Aug 2 19 76 Signed Joseph Oat Corp. By John J. Buckit
(Manufacturer)

Certificate of authorization Expires August 2, 1976 Certificate of Authorization No. #630

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Joseph Oat Corporation at Camden, New Jersey

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 Pa. and employed by Travellers Indemnity Corp. of Phila., Pa.

have inspected the pressure vessel described in this Manufacturer's Data Report on August 2 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.

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

Date August 2 19 76

JWR [Signature]
Inspector's Signature

Commission NB-4263 Pa-1765
National Board, State, Province and No.

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection have

been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of _____ psi.

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

Date _____ 19 _____

Inspector's Signature

Commission _____
National Board, State, Province and 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
One Oxford Centre - Pittsburgh, PA 15279
Address

Date 2/4/94

Sheet 1 of 5

2. Plant Beaver Valley Power Station
Name
Shippingport, PA 15077
Address

Unit No. 2

MWR 2393, P.O. D109159 (MWR 14519)

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 System

5. (a) Applicable Construction Code ASME III, DIV1 71 Edition Winter 1972 Addenda N-146-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
2SWS-P21C	Byron Jackson Pump Div.	731-N-0029			1982	Repaired	Yes
--	BW/IP Int. Pump Div.	217884		Bowl Assembly	1991	Replacement	Yes

7. Description of Work Replaced bowl assembly; rerated pump assembly to a 150 psig design pressure; replaced bolting

8. Tests Conducted: Hydraulic Pneumatic Nominal Operating Pressure
Other Pressure 225 psi Test Temp. " F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 8 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 Replaced bowl assembly; repaired pump columns, discharge head and
stuffing box and rerated them to a 150 psig design pressure;
replaced pump bolting

CERTIFICATE OF COMPLIANCE

I 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] Date 7 February 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 this Owner's Report during the period 10-26-92 to 2-8-94 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 IN 2274
Inspector, Signature National Board, State, Province, and Endorsements

Date 28-94 1994

**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 BW/IP INTERNATIONAL INC., PUMP DIV., LOS ANGELES OPERATIONS
(name and address of NPT Certificate Holder)
2300 EAST VERNON AVE., VERNON, CALIF. 90058
2. Manufactured for DUQUESNE LIGHT COMPANY
(name and address of Purchaser)
ONE OXFORD CENTRE, 301 GRANT STREET, PITTSBURGH, PA. 15279
3. Location of installation BEAVER VALLEY POWER STATION - UNIT 2, DUQUESNE LIGHT COMPANY
(name and address)
SOUTH BANK OF THE OHIO RIVER, SHIPPINGPORT, PA 15077 25 MILES NW OF PITTSBURGH, PA.
4. Type: LO01171 REV. 0 SA-216 GR. WCB 70,000 PSI MIN. N/A 1991
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 WINTER 1972 3 N/A
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A
(no.)
7. Remarks: BW/IP JOB NO.: 901-W-0206 NOMENCLATURE: 32KXH 2-STAGE BOWL ASSEMBLY

8. Nom. thickness (in.) .625 Min. design thickness (in.) .433 O.D. 3'0" Length overall (ft & in.) 6'6.937"
(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) 217884	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 150 psi. Temp. 100 °F. Hydro. test pressure 225 PSI/34 at temp. °F
when applicable

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

Certificate Holder's Serial Nos. 217884 through N/A

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this ~~item~~ BOWL ASSEMBLY conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-1131 Expires JUNE 10, 1993

Date 9-30/91 Name BW/IP INTERNATIONAL INC. Signed [Signature]
(NPT Certificate Holder) (Authorized Representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS CO FACTORY MUTUAL SYSTEM of NORWOOD, MASS. have inspected these items described in this Data Report on SEPT. 30, 1991 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 9/30/91 Signed [Signature] Commissions 1275 CA. WCO 2380K2
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

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

1. Manufactured by BYRON JACKSON PUMP DIV. 2300 E. VERNON AVE. VERNON, CALIF. 90058
(Name and Address of N Certificate Holder)
2. Manufactured for STONE AND WEBSTER ENGR. CORP. BOSTON, MASS. 02107
(Name and Address of Purchaser or Owner)
* 3. Location of Installation BEAVER VALLEY POWER STATION, PITTSBURGH, PENNSYLVANIA
(Name and Address)
4. Pump or Valve PUMP Nominal Inlet Size N/A (inch) Outlet Size 24 (inch)

	(a) Model 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)	36 RXM	731-N-0029	N/A	IF-7511	3	N/A	1982
(2)	2 STA-VGT			REV. D			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. SERVICE WATER PUMPS FOR COMPONENT/SYSTEM COOLING
(Brief description of service for which equipment was designed)

6. Design Conditions 130 (Pressure) psi 100 (Temperature) °F or Valve Pressure Class N/A (1)
7. Cold Working Pressure N/A psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
TOP CASE	SA-216 GR. WCB		R/S 162884
SERIES CASE	SA-216 GR. WCB		R/S 154431
SUCTION BELL	SA-216 GR. WCB		R/S 156976
STUFF BOX	SA-216 GR. WCB		R/S 161195A
(b) Forgings			
HALE COUPLING	SA-105 GR. 2		R/S 48969

(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.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
STUDS	SA-193 GR. B7		R/S 115041
HEX HD. CAP SCR.	SA-193 GR. B7		R/S 115037
HEX NUT	SA-194 GR. 7		R/S 97736
HEX HD. CAP SCR.	SA-193 GR. B7		R/S 55455
(d) Other Parts			
COL. FLANGE	SA-515 GR. 70		R/S 47948
ELBOW PIPE	SA-515 GR. 70		R/S 158888
THROTTLE SUPPORT	SA-515 GR. 70		R/S 158690
SUPPORT PIPE	SA-106 GR. B		R/S 158885
UPPER FLANGE	SA-515 GR. 70		R/S 158641
LOWER FLANGE	SA-515 GR. 70		R/S 158641
COL. PIPE	SA-515 GR. 70		R/S 158876
COL. PIPE	SA-515 GR. 70		R/S 158875
COL. PIPE	SA-515 GR. 70		R/S 158873

9. Hydrostatic test 200 psi. Disk Differential test pressure N/A 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. N-146-1 Date 10 Dec 1982
 Signed BYRON JACKSON PUMP DIV. by G.W. Lyman
 (N Certificate Holder)
 Our ASME Certificate of Authorization No. 1130 to use the N symbol expires 16 JUNE 1984
 (Date)

CERTIFICATION OF DESIGN

Design information on file at BYRON JACKSON PUMP DIV.
 Stress analysis report (Class 1 only) on file at N/A
 Design specifications certified by (1) STEPHEN A. SHUMAN
 PE State PENNSYLVANIA Reg. No. PE-30264-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 CALIFORNIA and employed by BOSTON MFG. MUTUAL INS. CO. of WALTHAM, MASS. have inspected the pump, or valve, described in this Data Report on 10 Dec, 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 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 Dec, 19 82
Melvin N. Costantini Commissions Calif-1408 Penn. W/C-2457
 (Inspector) (Nat'l Bd., State, Prov. and No.)

*ARK WRIGHT - BOSTON MFG. MUTUAL INS. CO. (FACTORY MUTUAL SYSTEM)

CERTIFICATE OF AUTHORIZATION NO. N-1130
 EXPIRES: 16 JUNE 1984
 BY: G.W. Lyman
 DATE: 7-20-1983
 ANI: Melvin N. Costantini

