

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION
INSERVICE INSPECTION DEPARTMENT

INSERVICE INSPECTION NINETY-DAY REPORT

BEAVER VALLEY POWER STATION UNIT 2

OUTAGE 2 YEAR 1990

INSPECTION TERM: 06/02/89 to 11/15/90

Issue Date: 2/6/91

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

NRC Docket Number: 50-412

Reactor Supplier: Westinghouse Electric Corporation
Gross Generating Capability: 847 MWe
Commercial Service Date: November 17, 1987

Prepared By: James E. Zipe

Date: 1/30/91

Reviewed By: ^{WKS} Ther Kammuderny
Director, Standards and
Materials Section

Date: 1/31/91

Approved By: J.P. Noonan
General Manager,
Nuclear Operations

Date: 2/2/91

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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, P.O. Box 4, Shippingport, PA 15077
(Name and Address of Plant)
3. Plant Unit 2 4. Owner Certificate of Authorization (if required) 26-05000
5. Commercial Service Date 11/17/87 6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering	CE-9071	160591	21669
Pressurizer	Westinghouse	1971	485064	W18695
A Steam Generator	Westinghouse	1961	485065	W16598
B Steam Generator	Westinghouse	1962	485066	W16599
C Steam Generator	Westinghouse	1963	485067	W16600
Reactor Coolant Piping	S. W. Fabricating	N/A	N/A	N/A
Auxiliary Piping Systems	Schneider Power Corp.	N/A	N/A	N/A
A Residual Heat Removal Pump	Ingersoll-Rand	127426	N/A	222
Residual Heat Removal Heat Exch.	Atlas Industrial Mfg. Co.	3483	N/A	2853
Regenerative Heat Exchanger	Joseph Oat Co.	2255-2-1	484993	884
A Recirculation Spray Cooler	Joseph Oat Co.	2189-1A	N/A	890
A Recirculation Spray Pump	Bingham-Willamette	230439	N/A	993 (Suction) NB314 (Discharge)

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 6/02/89 to 11/15/90. Inspection Interval from 11/27/87 to 11/27/97

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

11. Abstract of Conditions Noted See Appendices I and II

12. Abstract of Corrective Measures Recommended and Taken See Text
See Appendices III and IV

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

Certificate of Authorization No. (if applicable) 26-05000 Expiration Date NA

Date 2/2 19 91 Signed Duquesne Light Co. By J.P. Noonan
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Factory Mutual System of Lowell, Mass. have inspected the components described in this Owner's Report during the period 6-2-89 to 11-15-90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

G. S. Muckle
Inspector's Signature
Date February 5, 1991

Commissions Factory Mutual System
NB8316 PA2248
National Board, State, Province, and Endorsements

Outage Summary

During the Second Refueling Outage (2R) 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 (and last) outage of the first period of the first ten year interval.

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

ASME XI Exams

1. One hundred ninety three (193) Class 1 exams were performed and are divided into three groups as follows:
 - a. Welds (piping and vessels)

Ultrasonic Exams	- 17
Penetrant Exams	- 64
 - b. Bolting

Visual Exams	- 108
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 - c. Supports

Visual Exams	- 4
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2. Fifty three (53) Class 2 exams were performed and are divided into two groups as follows:
 - a. Welds (piping, pumps, and vessels)

Ultrasonic Exams	- 6
Penetrant Exams	- 10
Magnetic Particle Exams	- 1
Visual Exams	- 15
 - b. Supports

Penetrant Exams	- 19
Visual Exams	- 2

3. Twenty (20) visual exams of Class 3 supports were performed and are divided into two groups as follows:
 - a. Supports

Visual Exams	- 10
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 - b. Attachments

Visual Exams	- 12
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The ASME XI exams were performed by Duquesne Light Company and EBASCO NDE Technicians. The exams are summarized below and listed in full in Appendices I and II.

Reactor Vessel Examinations

Examinations performed on the Reactor Vessel were the Closure Head Flange Circumferential weld (2RCS*REV21-C-1A), the Flange-to-Shell Circumferential weld (2RCS*REV21-C-1B), the A, B, and C Loop Outlet Nozzle Saddle Supports, and the Neutron Shield Tank Skirt (2RCS*SUP21-SKRT).

An Ultrasonic Exam of the Reactor Closure Head Flange was performed at datum points 26 and 27 as a follow-up to indication 401 identified during LR. During the course of the examination another recordable reflector, which had not been previously identified was found. An evaluation of the reflector concluded that it was the result of a slag inclusion from the original construction of the weld. QCR No. 315 is included in Appendix III to provide further details. No other recordable indications were observed in the data.

Pressure Testing

The Class 1, 2, and 3 piping System Leakage Tests and accompanying VI-2 exams were performed before during and after the outage to fulfill the 40-month pressure testing requirement.

Steam Generator Tube Examinations

Steam generator tubes in both 'B' and 'C' steam generators were examined by personnel of the Nuclear Service Division of the Westinghouse Electric Company. Normal tube examination was conducted by magnetically biased bobbin coil probes. On the two innermost rows, the straight portion of the tube was examined by bobbin coil and the bend region was examined using a rotating pancake coil (RPC) probe. Rotating pancake coil examinations were conducted on some tubes for additional information. Distorted bobbin coil signals were examined by rotating pancake coil. All bobbin coil data was independently reviewed by personnel from Lock and Wilcox.

The following table displays the number of tubes examined by eddy current during the examination:

<u>Examination:</u>	<u>S/G: 'B'</u>	<u>'C'</u>
Full-length bobbin:	642	747
Partial-length bobbin:	49	46
U-bend region RPC:	62	35
Support plate intersection RPC:	70	229
Inlet tubesheet region RPC:	150	3

The examination of 'B' steam generator resulted in two indications of through wall degradation twenty percent or larger. These are listed on the following table:

<u>Tube Row, Column:</u>	<u>Indication:</u>	<u>Location:</u>
38 41	30%	AV2 +2.58"
38 41	20%	AV3 +1.28"

The examination of 'C' steam generator resulted in no indications of through wall degradation.

No tubes were plugged as a result of the examinations conducted this outage. However, two tubes (R09C84 in both 'A' and 'C' steam generator) were plugged in the inlet tubesheet and plugged with leak-limiting plugs in the outlet tubesheet to address concerns of potential failure due to vibration-induced fatigue.

Three Inconel 600 rolled plugs (Babcock and Wilcox design) were removed from the inlet tubesheet of steam generator 'C'. Two of these were made of heat number W387-1 and one was made of heat number 2848. The tubes were plugged with new plugs made of Inconel 690.

Plug retainers were installed in all Inconel 600 expanded plugs (manufactured by Westinghouse Electric) in the outlet tubesheets. The table below displays the number of plugs affected in each steam generator.

	<u>'A'</u>	<u>'B'</u>	<u>'C'</u>
Number of plug retainers:	4	2	3

Baseline Examinations

Appendix II identifies those components repaired/replaced during this outage which required baseline examinations per ASME XI.

Snubber Examinations

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

Deficiencies

There were no recorded deficiencies reported during the Unit 2 2R outage.

NIS-2 Forms

Included as Appendix IV are the NIS-2 Forms associated with Repairs and Replacements made at Unit 2 during 2R.

APPENDIX I

DUQUESNE LIGHT COMPANY
BVPS UNIT 2 1990 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION =====	COMPONENT DESCRIPTION =====	NDE REPORT NUMBER =====	OUTAGE REMARKS =====
** ASME ITEM NUMBER/EXAM CATEGORY: B01.030 B-A			
* ISOMETRIC: REV21 2RCS*REV21-C-1B	CIRCUMFERENTIAL WELD (FLG TO SHELL)	UT90007	
** ASME ITEM NUMBER/EXAM CATEGORY: B01.040 B-A			
* ISOMETRIC: REV21 2RCS*REV21-C-1A	RVCH FLANGE CIRCUMFERENTIAL WELD	UT90024	
** ASME ITEM NUMBER/EXAM CATEGORY: B02.040 B-B			
* ISOMETRIC: SG21 2RCS*SG21A-C-1	CIRCUMFERENTIAL WELD	UT90015	
** ASME ITEM NUMBER/EXAM CATEGORY: B03.120 B-D			
* ISOMETRIC: PRE21 2RCS*PRE21-N-091R	NOZZLE INSIDE RADIUS	UT90021	
2RCS*PRE21-N-141R	NOZZLE INSIDE RADIUS	UT90020	
** ASME ITEM NUMBER/EXAM CATEGORY: B05.070 B-F			
* ISOMETRIC: 110229 2RCS-001-F04	NOZZLE TO SAFE-END		UT90011 LIGHT PINKING FROM GRIND MARKS CAN BE SEEN PT90001 VISUALLY INTERMITTENTLY AROUND THE ENTIRE WELD
** ASME ITEM NUMBER/EXAM CATEGORY: B07.060 B-G-2			
* ISOMETRIC: RCSP21			
2RCS*P21B(S)-B01	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B02	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B03	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B04	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B05	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B06	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B07	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B08	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B09	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B10	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B11	SEAL HOUSING BOLT	VT90122	
2RCS*P21B(S)-B12	SEAL HOUSING BOLT	VT90122	
** ASME ITEM NUMBER/EXAM CATEGORY: B08.020 B-H			

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COMPONENT IDENTIFICATION =====	COMPONENT DESCRIPTION =====	NDE REPORT NUMBER =====	OUTAGE REMARKS =====
* ISOMETRIC: PRE21 2RCS*PRE21-C-B	SKIRT CIRC WELD	UT90025	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.011 B-J			
* ISOMETRIC: 110226 2RCS-003-F01	PIPE WELD	UT90013 PT90006	
2RCS-003-2-1	PIPE WELD	UT90026 PT90022	
* ISOMETRIC: 110229 2RCS-001-F01	PIPE WELD	UT90004	2R UT ONLY
* ISOMETRIC: 110230 2RCS-004-F01	PIPE WELD	UT90005	2R UT ONLY
* ISOMETRIC: 110231 2RCS-007-F01	PIPE WELD	UT90006	2R UT ONLY
* ISOMETRIC: 110232 2RCS-002-3-2	PIPE WELD	UT90010 PT90004	
* ISOMETRIC: 110235 2RCS-004-F03	PIPE WELD	UT90022 PT90014	
* ISOMETRIC: 110904 2RCS-081-F01	PIPE WELD	UT90008 PT90002	
* ISOMETRIC: 108205 2SIS-067-5A-B	PIPE WELD	UT90009 PT90007	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.021 B-J			
* ISOMETRIC: 107419 2CHS-001-11C	BUTT WELD	PT90005	
2CHS-001-11E	BUTT WELD	PT90005	
2CHS-001-11F	BUTT WELD	PT90005	
2CHS-001-11G	BUTT WELD	PT90005	
2CHS-001-F402A	BUTT WELD	PT90005	
2CHS-001-12A-A	BUTT WELD	PT90005	

APPENDIX 1 - CODE EXAMS

DUQUESNE LIGHT COMPANY
BVPS UNIT 2 1990 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION =====	COMPONENT DESCRIPTION =====	NDE REPORT NUMBER =====	OUTAGE REMARKS =====
* ISOMETRIC: 107005			
2RCS-022-9A	BUTT WELD	PT90003	
2RCS-022-9B	BUTT WELD	PT90003	
2RCS-022-9C	BUTT WELD	PT90003	
2RCS-022-F05	BUTT WELD	PT90003	
* ISOMETRIC: 110908			
2RCS-109-F01	BUTT WELD	PT90013	
2RCS-109-F02	BUTT WELD	PT90013	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.031 B-J			
* ISOMETRIC: 110226			
2RCS-003-2-3	PIPE WELD	UT90012 PT90008	
** ASME ITEM NUMBER/EXAM CATEGORY: C01.010 C-A			
* ISOMETRIC: CHSE23			
2CHS*E23-W-2	SHELL NO.1 CIRCUMFERENTIAL WELD # 2	VT90209	
2CHS*E23-W-3	SHELL NO.1 CIRCUMFERENTIAL WELD # 3	VT90209	
2CHS*E23-W-6	SHELL NO.2 CIRCUMFERENTIAL WELD # 6	VT90209	
2CHS*E23-W-7	SHELL NO.2 CIRCUMFERENTIAL WELD # 7	VT90209	
2CHS*E23-W-10	SHELL NO.3 CIRCUMFERENTIAL WELD #10	VT90209	
2CHS*E23-W-11	SHELL NO.3 CIRCUMFERENTIAL WELD #11	VT90209	
* ISOMETRIC: SG21			
2RCS*SG21A-C-03	SHELL CIRCUMFERENTIAL WELD # 3	UT90017	
2RCS*SG21A-C-06	SHELL CIRCUMFERENTIAL WELD # 4	UT90018	INDICATIONS 200 & 201 (SEE EXAM REPORT) COMPARED WITH PREVIOUS EXAM DATA - NO CHANGES OBSERVED
** ASME ITEM NUMBER/EXAM CATEGORY: C01.020 C-A			
* ISOMETRIC: SG21			
2RCS*SG21A-C-08	HEAD CIRCUMFERENTIAL WELD # 8	UT90019	
** ASME ITEM NUMBER/EXAM CATEGORY: C01.030 C-A			
* ISOMETRIC: SG21			
2RCS*SG21A-C-02	TUBESHEET-TO-SHELL WELD # 2	UT90016	
** ASME ITEM NUMBER/EXAM CATEGORY: C02.021 C-B			
* ISOMETRIC: RHSE21			
2RHS*E21A-W-3	NOZZLE-TO-SHELL WELD # 3	UT90023	LIGHT PINKING AROUND CAN BE SEEN VISUALLY.

APPENDIX 1 - CODE EXAMS

DUQUESNE LIGHT COMPANY
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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
2RHS*E21A-W-4	NOZZLE-TO-SHELL WELD # 4	PT90017	PT90017 LIGHT PINKING AROUND WELD CAN BE SEEN VISUALLY. PT ONLY. UT HAS BEEN RESCHEDULED TO 3R.
** ASME ITEM NUMBER/EXAM CATEGORY: C03.010 C-C			
* ISOMETRIC: RHSE21			
2RHS*E21A-WS-1	INTEGRALLY WELDED ATTACHMENT # 1WS	PT90016	LIGHT PINKING AROUND WELD CAN BE SEEN VISUALLY.
2RHS*E21A-WS-2	INTEGRALLY WELDED ATTACHMENT # 2WS	PT90016	LIGHT PINKING AROUND WELD CAN BE SEEN VISUALLY.
* ISOMETRIC: RSSE21			
2RSS*E21A-WS-01	SUPPORT 1A - INTEGRAL WELDED ATTCHMENT W	PT90023	
2RSS*E21A-WS-02	SUPPORT 1B - INTEGRAL WELDED ATTCHMENT W	PT90023	
2RSS*E21A-WS-03	SUPPORT 2A - INTEGRAL WELDED ATTCHMENT W	PT90020	
2RSS*E21A-WS-04	SUPPORT 2B - INTEGRAL WELDED ATTCHMENT W	PT90020	
2RSS*E21A-WS-11	SUPPORT 3 - CIRCULAR PLATE WELD #11WS	PT90015	
2RSS*E21A-WS-12	SUPPORT 3 - CIRCULAR PLATE WELD #12WS	PT90015	
** ASME ITEM NUMBER/EXAM CATEGORY: C03.020 C-C			
* ISOMETRIC: 109940			
2CHS-120-F514	WELDED ATTACHMENT FOR 2CHS-PSR318	PT90012	
2CHS-120-F515	WELDED ATTACHMENT FOR 2CHS-PSR318	PT90012	
2CHS-120-F516	WELDED ATTACHMENT FOR 2CHS-PSR318	PT90012	
2CHS-120-F517	WELDED ATTACHMENT FOR 2CHS-PSR318	PT90012	
* ISOMETRIC: 107965			
2RSS-002-F802	WELDED ATTACHMENT FOR 2RSS-PSSP134A	PT90011	
2RSS-002-F804	WELDED ATTACHMENT FOR 2RSS-PSSP134A	PT90011	
2RSS-002-F805	WELDED ATTACHMENT FOR 2RSS-PSSP134A	PT90011	
2RSS-002-F807	WELDED ATTACHMENT FOR 2RSS-PSSP134A	PT90011	
2RSS-002-F801	WELDED ATTACHMENT FOR 2RSS-PSSP134B	PT90011	
2RSS-002-F803	WELDED ATTACHMENT FOR 2RSS-PSSP134B	PT90011	
2RSS-002-F806	WELDED ATTACHMENT FOR 2RSS-PSSP134B	PT90011	
2RSS-002-F808	WELDED ATTACHMENT FOR 2RSS-PSSP134B	PT90014	
** ASME ITEM NUMBER/EXAM CATEGORY: C03.030 C-C			
* ISOMETRIC: RHSP21			
2RHS*P21A-WS-1	FOOT SUPPORT 1 - INTEGRALLY WELDED ATTCH	PT90018	
2RHS*P21A-WS-2	FOOT SUPPORT 2 - INTEGRALLY WELDED ATTCH	PT90018	
2RHS*P21A-WS-3	FOOT SUPPORT 3 - INTEGRALLY WELDED ATTCH	PT90018	

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COMPONENT IDENTIFICATION =====	COMPONENT DESCRIPTION =====	NDE REPORT NUMBER =====	OUTAGE REMARKS =====
** ASME ITEM NUMBER/EXAM CATEGORY: C05.051 C-F-2			
* ISOMETRIC: 101702 2FWS-012-F10	BUTT WELD	UT90014 MT90012	
** ASME ITEM NUMBER/EXAM CATEGORY: C06.010 C-G			
* ISOMETRIC: R5SP21			
2RSS*P21A-W-01	PUMP CASING WELD # 1	PT90010	
2RSS*P21A-W-02	PUMP CASING WELD # 2	PT90010	
2RSS*P21A-W-03	PUMP CASING WELD # 3	PT90010	
2RSS*P21A-W-05	PUMP CASING WELD # 5	PT90010	
2RSS*P21A-W-09	PUMP CASING WELD # 9	VT90134	
2RSS*P21A-W-10	PUMP CASING WELD #10	VT90134	
2RSS*P21A-W-11	PUMP CASING WELD #11	VT90134	
2RSS*P21A-W-12	PUMP CASING WELD #12	VT90134	
2RSS*P21A-W-13	PUMP CASING WELD #13	VT90134	
2RSS*P21A-W-15	PUMP CASING WELD #15	VT90134	
2RSS*P21A-W-16	PUMP CASING WELD #16	VT90134	
2RSS*P21A-W-17	PUMP CASING WELD #17	VT90134	
2RSS*P21A-W-18	PUMP CASING WELD #18	VT90134	
** ASME ITEM NUMBER/EXAM CATEGORY: D01.020 D-A			
* ISOMETRIC: CHSTK21			
2CHS T21A-W-1	INTEGRAL SUPPORT ATTACHMENT - "W1"	VT90114	
2CHS T21A-W-2	INTEGRAL SUPPORT ATTACHMENT - "W2"	VT90114	
** ASME ITEM NUMBER/EXAM CATEGORY: D02.020 D-B			
* ISOMETRIC: RHSE21			
2RHS*E21A-3WS	LUG WELD ATTACHMENT 3WS	VT90140	
** ASME ITEM NUMBER/EXAM CATEGORY: D02.040 D-B			
* ISOMETRIC: 110704			
2CCP-095-F-811	WELDED ATTACHMENT FOR 2CCP-PSSH399B	VT90142	
2CCP-095-F-810	WELDED ATTACHMENT FOR 2CCP-PSSH399B	VT90142	
2CCP-095-F-809	WELDED ATTACHMENT FOR 2CCP-PSSH399A	VT90142	
2CCP-095-F-808	WELDED ATTACHMENT FOR 2CCP-PSSH399A	VT90142	
* ISOMETRIC: 110705			
2CCP-099-F-810	WELDED ATTACHMENT FOR 2CCP-PSSH400A	VT90144	
2CCP-099-F-811	WELDED ATTACHMENT FOR 2CCP-PSSH400A	VT90144	
2CCP-099-F-812	WELDED ATTACHMENT FOR 2CCP-PSSH400B	VT90144	

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COMPONENT IDENTIFICATION =====	COMPONENT DESCRIPTION -----	NDE REPORT NUMBER =====	OUTAGE REMARKS =====
2CCP-099-F-813	WELDED ATTACHMENT FOR 2CCP-PSSH400B	VT90144	
** ASME ITEM NUMBER/EXAM CATEGORY: F01.030 F-A			
* ISOMETRIC: RHSE21			
2RHS*E21A-SUPP-1	FOOT SUPPORT # 1 (4 GUSSET PLATES)	VT90146	
2RHS*E21A-SUPP-2	FOOT SUPPORT # 2 (4 GUSSET PLATES)	VT90146	
* ISOMETRIC: CHSTK21			
2CHS*T21A-FTS-1	FOOT SUPPORT NO. 1	VT90113	LIGHT BORIC ACID RESIDUE EVIDENT.
2CHS*T21A-FTS-2	FOOT SUPPORT NO. 2	VT90113	LIGHT BORIC ACID RESIDUE EVIDENT.
2CHS*T21A-FTS-3	FOOT SUPPORT NO. 3	VT90113	LIGHT BORIC ACID RESIDUE EVIDENT.
2CHS*T21A-FTS-4	FOOT SUPPORT NO. 4	VT90113	LIGHT BORIC ACID RESIDUE EVIDENT.
2CHS*T21A-FTS-5	FOOT SUPPORT NO. 5	VT90113	LIGHT BORIC ACID RESIDUE EVIDENT.
2CHS*T21A-FTS-6	FOOT SUPPORT NO. 6	VT90113	LIGHT BORIC ACID RESIDUE EVIDENT.
* ISOMETRIC: RHSE21			
2RHS*E21A-SPT-3	RESTRAINT ASSEMBLY	VT90140	
* ISOMETRIC: REV21			
2RCS*SUP21-SKRT	NEUTRON SHIELD TANK	VY90164	
** ASME ITEM NUMBER/EXAM CATEGORY: F02.010 F-B			
* ISOMETRIC: REV21			
2RCS*SUP21-SAD-1	A LOOP OUTLET NOZZLE SADDLE	VT90181	
2RCS*SUP21-SAD-3	B LOOP OUTLET NOZZLE SADDLE	VT90181	
2RCS*SUP21-SAD-5	C LOOP OUTLET NOZZLE SADDLE	VT90181	
** ASME ITEM NUMBER/EXAM CATEGORY: F03.050 F-C			
* ISOMETRIC: 110704			
2CCP-PSSH399A	SUPPORT	VT90141	
2CCP-PSSH399B	SUPPORT	VT90141	
* ISOMETRIC: 110705			
2CCP-PSSH400A	SUPPORT	VT90143	
2CCP-PSSH400B	SUPPORT	VT90143	

APPENDIX II

DUQUESNE LIGHT COMPANY
BVPS UNIT 2 1990 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
=====	=====	=====	=====

** ASME ITEM NUMBER/EXAM CATEGORY: B07.030 B-G-2

* ISOMETRIC: SG21

2RCS*CG21A-H-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-H-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21A-C-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	

DUQUESNE LIGHT COMPANY
BVPS UNIT 2 1990 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
2RCS*SG21B-H-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-H-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21B-C-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-H-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S01	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S02	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S03	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S04	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S05	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S06	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S07	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S08	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S09	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	

DUQUESNE LIGHT COMPANY
BVPS UNIT 2 1990 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
2RCS*SG21C-C-S10	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S11	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S12	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S13	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S14	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S15	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	
2RCS*SG21C-C-S16	PRIMARY MANWAY STUD,NUT,WASHER	VT90052	

** ASME ITEM NUMBER/EXAM CATEGORY: B09.021 B-J

* ISOMETRIC: 107004

2RCS-025-F-11	BUTT WELD	PT90661
2RCS-025-F-12	BUTT WELD	PT90641
2RCS-025-F-13	BUTT WELD	PT90641
2RCS-025-F-14	BUTT WELD	PT90661
2RCS-025-F-15	BUTT WELD	PT90641
2RCS-025-F-16	BUTT WELD	PT90691
2RCS-025-F-17	BUTT WELD	PT90638
2RCS-025-F-18	BUTT WELD	PT90656
2RCS-025-F-19	BUTT WELD	PT90691
2RCS-025-F-20A	BUTT WELD	PT90667
2RCS-025-F-21	BUTT WELD	PT90641
2RCS-025-F-22	BUTT WELD	PT90691

ISOMETRIC: 107009

2RCS-045-F-12	BUTT WELD	PT90680
2RCS-045-F-13	BUTT WELD	PT90624
2RCS-045-F-14A	BUTT WELD	PT90690
2RCS-045-F-15	BUTT WELD	PT90642
2RCS-045-F-16	BUTT WELD	PT90709
2RCS-045-F-17	BUTT WELD	PT90624
2RCS-045-F-18	BUTT WELD	PT90639
2RCS-045-F-19	BUTT WELD	PT90697
2RCS-045-F-20	BUTT WELD	PT90624
2RCS-045-F-21	BUTT WELD	PT90624
2RCS-045-F-22	BUTT WELD	PT90624
2RCS-045-F-23	BUTT WELD	PT90659

* ISOMETRIC: 107014

2RCS-065-F-11	BUTT WELD	PT90694
2RCS-065-F-12A	BUTT WELD	PT90637
2RCS-065-F-13A	BUTT WELD	PT90637
2RCS-065-F-14A	BUTT WELD	PT90699
2RCS-065-F-15B	BUTT WELD	PT90698
2RCS-065-F-16	BUTT WELD	PT90694
2RCS-065-F-18	BUTT WELD	PT90711

DUQUESNE LIGHT COMPANY
BVPS UNIT 2 1990 OUTAGE
NINETY DAY REPORT

COMPONENT IDENTIFICATION =====	COMPONENT DESCRIPTION =====	NDE REPORT NUMBER =====	OUTAGE REMARKS =====
2RCS-065-F-20	BUTT WELD	PT90652	
2RCS-065-F-21	BUTT WELD	PT90652	
2RCS-065-F-22A	BUTT WELD	PT90637	
2RCS-065-F-23B	BUTT WELD	PT90686	
2RCS-065-F-24A	BUTT WELD	PT90710	
2RCS-065-F-505B	BUTT WELD	PT90695	
* ISOMETRIC: 110232 2RCS-015-F-04A-C	BUTT WELD	PT90047	
* ISOMETRIC: 110233 2RCS-035-F-04A-C	BUTT WELD	PT90026	
* ISOMETRIC: 110234 2RCS-055-F-04A-C	BUTT WELD	PT90013	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.040 B-J			
* ISOMETRIC: 107004 2RCS-025-F-01B	SOCKET WELD	PT90691	
* ISOMETRIC: 107009 2RCS-045-F-01A	SOCKET WELD	PT90711	
* ISOMETRIC: 107014 2RCS-065-F-01B	SOCKET WELD	PT90712	
* ISOMETRIC: 110226 2RCS-010-F503A-C	SOCKET WELD	PT90062	
* ISOMETRIC: 110227 2RCS-030-F-01A-C	SOCKET WELD	PT90039	
* ISOMETRIC: 110228 2RCS-050-F-01A-C	SOCKET WELD	PT90011	
* ISOMETRIC: 110773 20GS-212-F-1-C	SOCKET WELD	PT90677	

APPENDIX III

JF17

A4.606AJ
FORM D37-122153

DUQUESNE LIGHT COMPANY
Quality Services Unit
QUALITY CONTROL REPORT

QCR NUMBER
315

STATION BVPS Unit #2

EQUIPMENT/SYSTEM Reactor Head Flange Circumferential Weld

REPORT TITLE Evaluation of UT Indication #402

On 9/28/90 an ultrasonic examination was performed on the BV-2 reactor head flange circumferential weld 2RCS*REV21-C-1A at datum points 26 and 27 as a follow-up to indication number 401 identified during IR at this location. Examination results for indication number 401 concurred with the data collected during IR and were satisfactory, however, during the course of the examination another recordable reflector which had not been previously identified was found. Volumetric evaluations of this reflector were performed by the DLCo. and Ebasco UT Level III utilizing both current ultrasonic data and original Combustion Engineering radiographs of the area in question. Correlation between the RT and UT datum points was established and the evaluation concluded that the reflector was the result of a slag inclusion from the original construction of the weld. As a result, no further examinations are considered necessary. Attached is the data associated with this evaluation.

cc: S. C. Fenner
G. A. Kammerdeiner
T. C. Heimel
QCR File

REPORTED BY: *J. J. Luciani* DATE: 10/5/90

REVIEWED BY: *M.A. Ryan*



RTL#
A9 730M

Duquesne Light

FORM D37 84132

VOLUMETRIC EVALUATION REPORT

EVAL REPORT NO: E-90-5

PAGE 1 OF 8

COMPONENT:
REACTOR VESSEL

LINE: N/A

DWG /ISO:
REV 21

EXAM CAT:
B-A

ITEM NO:
B1.40

PLANT/UNIT:
BUPS / UNIT 2

EXAM REPORT NO:
UT-90-24

APPLICABLE CODE/YEAR/ADDENDA:
ASME SECTION XI, 1983 EDITION, 5-83 addenda

WELD NO. OR IDENTIFICATION: 2 RCS * REV 21-C-1A

COMMENTS: UT INDICATION #402 WAS NOTED

DATE OF INITIAL EXAMINATION:
10-4-90 9-28-90

RE-EXAMINATION:
N/A

WHILE SCANNING EXISTING I.O. CLAD INDICATIONS.

REPORTABLE INDICATION NUMBER:
RECORDABLE 402

ORIGINATOR: Timothy C. Heavin

LEVEL: III DATE: 9-4-90

PRELIMINARY DISPOSITION AND CALCULATIONS:

THICKNESS: Measured "T" 7.0" - (CLAD) .19" = "t" 6.81"

"s" DETERMINATION: T 6.81 = "s" Classification: SUBSURFACE

TWD: N/A (min.) - N/A (max.) = N/A (d or 2 d)

A/L: a = N/A l = N/A = N/A a/l = N/A = N/A Aspect Ratio

A/T: a/t = N/A x 100 = N/A a/t% N/A Aspect Ratio Allowable = N/A % (Ref. Para.) N/A

INDICATION # = a/t% Recommendation: ACCEPTABLE SLAG INCLUSION

Indication compared with previous examination: N/A NO YES NUMBERS: N/A

FRACTURE MECHANICS ANALYSIS? YES NO EM NUMBER N/A

FINAL DISPOSITION:

COMMENTS: Radiographs were recalled and reviewed. Correlation between RT and UT datum points was established. Indication was determined to be slag. See attached memorandum, report + plot.

ACCEPTABLE REJECTABLE

LEVEL III DATE: 10-4-90
Timothy C. Heavin III

REVIEWED BY: DATE:

DATE: FILM WELD BY: DATE:

E-90-5 Page 2 of 3

TO: T. Heibel; DLCo. NDE Level III

FROM: G. Sechler; Ebasco NDE Level III

VIA: W. McCabe; Ebasco Site Supervisor

SUBJECT: Indication #402; Slag Inclusion; found during monitoring existing head
I.D. Clad Ind.

On 9/28/90, the writer accompanied by the addressee performed a UT exam on the Reactor Vessel head-to-flange weld to observe two existing indications located at the clad/base metal interface.

While scanning the area-of-interest with 45° and 60° angle transducers. It was noted that an indication appeared at 1/4 "T". The UT instruments were utilizing a dB setting of 14dB "hot" to facilitate locating the indications the writer was in search of. It is the writer's belief that due to this increased level of sensitivity; the indication became more apparent. When rescanning the area at 6 dB "hot", the indication was noticeably more difficult to locate. This may explain why it was not noted before.

As can be noted on the attached plot and documentation, the indication plots within .10" of an existing slag ind. on the baseline RT. It is also noted on the Reader Sheet. It is therefore, the writer's belief that this slag inclusion area is the responsible reflector for Indication #402 based on the plot attached.

Should you have any questions relating to this indication, please contact me at ext. 4867. Thank you for your time in this matter.



George J. Sechler
Ebasco NDE Level III

10/5/90

E-70-5 Page 3 of 8

COMBUSTION ENGINEERING, I
 CHATTANOOGA DIVISION
 RADIOGRAPHIC ACCEPTANCE FORM

Form E-1818

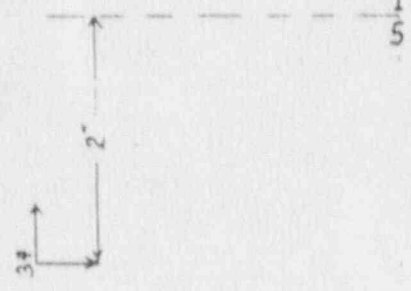
CUSTOMER ^{NO} Westinghouse ^{ITEM} Closure Head Girth JOB NO 709101
 CONTRACT NO 907 ^{SPEC NO} ASME 2413c add 1932 UNIT NO 1

SEAM NO.	FILM NO.	FILM DATE	SURFACE DEFECTS	POROSITY	SLAG INCLUSIONS	TUNGSTEN INCLUSIONS	OXIDE INCLUSIONS	UNDERCUT	PROCESSING MARKS	BRIEFLY DESCRIBE APPARENT DEFECTS IF NO DEFECTS INDICATED, STATE "NAD" LINE OUT LISTED SEAMS NOT ACCEPTED BY CUSTOMER & NOTATE	
101401	48-1	8/3/73								NAD	
	1-2	}								1	
	2-3				✓					3/8"	
	3-4				✓					overlap.	
	4-5									NAD	
	5-6									}	
	6-7										
	7-8										
	8-9										
	9-10										
	10-11										
	11-12										
	12-13										
	13-14										
	14-15										
	15-16										
	16-17										
	17-18										
	18-19										
	19-20			✓							S.D
	20-21			✓							S.D
	21-22										
	22-23										
	23-24										
	24-25	8/8/73									
	25-26	}									
	26-27										
	27-28										
	28-29										
	29-30										

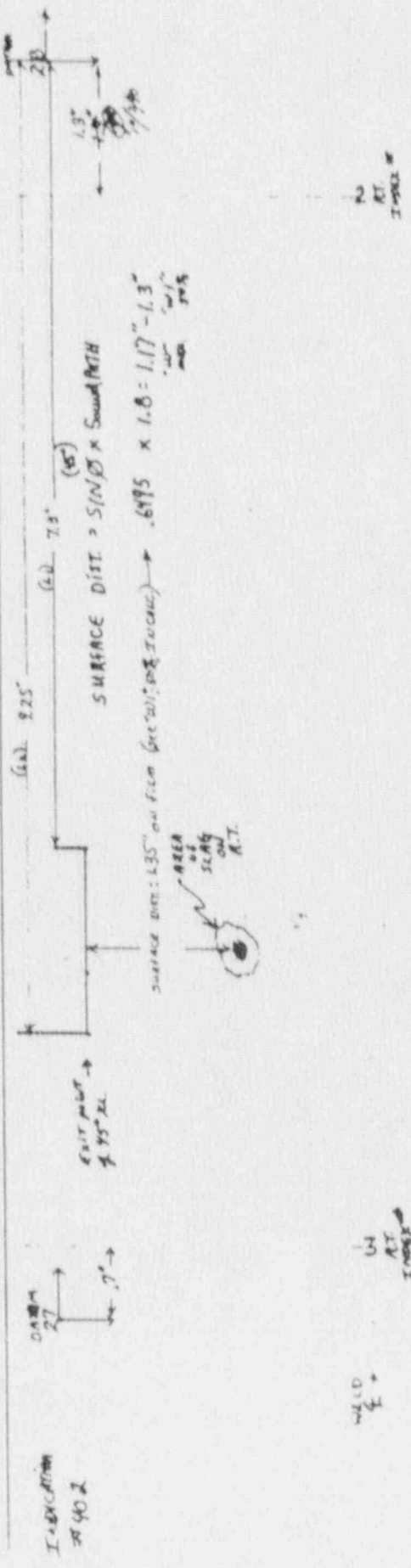
INSPECTOR *[Signature]* DATE 8/8/73 CUSTOMER *[Signature]* DATE 8/15/73 NAME OR ADDRESS *[Signature]*

IND. #102 ON DATA SHEETS PART WITH
(ATTACHED) AND W/IA EVALUATING HEAD IND.

G. Secker G. Secker 10/4/70



WELD
E



REVIEWED BY: *G. Secker* DATE: 10/4/70
INSPECTIVE LEVEL: III



Duquesne Light

SUMMARY NUMBER:
205200

ULTRASONIC EXAMINATION REPORT

PLANT/UNIT: BVPS UNIT 2
 SYSTEM: REACTOR COOLANT
 WELD IDENTIFICATION: T04 18-3-90
 2RCS*REV21-C-41A

PROC./REV.(S): UT-306 / REV. 3
 LINE: N/A
 THICK./DIA: 7"

REPORT NO. UT 90-24
 PAGE 2 OF 3

APPLICABLE CODE/NEAR/ADDENDA
 ASME SECTION XI 1981 SUMMER 83
 ISO/REV: REV 21
 EXAM CAT: B-A
 ITEM # B01.0311
 CAL BLOCKS: 7/1-90
 -BY-D RV-2

CAL REPORT NO: C-90-41
 ANGLE USED: 45°
 TYPE: GAMMA
 DIRECTION: 42, 354
 WELD TEMP: 81 of dB# 292
 DATE: 9/28/90
 REMARKS: N/A

CAL REPORT NO: C-90-42
 ANGLE USED: 60°
 TYPE: GAMMA
 DIRECTION: 42, 354
 WELD TEMP: 81 of dB# 292
 DATE: 9/28/90
 REMARKS: N/A

CAL REPORT NO: C-90-40
 ANGLE USED: 0°
 TYPE: GAMMA
 DIRECTION: 42, 354
 WELD TEMP: 81 of dB# 292
 DATE: 9/28/90
 REMARKS: N/A

Indication No.	Scan Dir. 1,2,3,4	+ - %	Percent of DAC	Full Datum Point	W MAX	W CRT SWEEP	W1 CRT SWEEP FWD	W2 CRT SWEEP BACK	W2 CRT SWEEP BACK	L MAX	L CRT SWEEP	LENGTH		PHYSICAL DAMPING YES/NO	REMARKS	SUPERVISOR EVAL. YES/NO
												1	2			
402	1	-	65	27	2.75	6.8	2.35	1.6	3.3	2.0	8.75	7.5	9.15	NO	INDICATION MID-WALL. NOT CORRECTED TO I.P. OR O.D. SMOOTH SIGNAL RESPONSE; NOT CHARACTERISTIC OF MULTI-FACETED REFLECTOR. NOTE: I.W. #402 SEEN WITH 45° E.C.; HOWEVER, IT WAS BELOW RECORDABLE LEVEL. FOR 0° DATA, SEE REV 28 PAGES, CAPABLE TO SEE I.W. #402 WITH 0° E.C. @	

EXAMINER: [Signature]
 DATE: 9/28/90
 REVIEWED BY: [Signature]
 DATE: 10-3-90
 A N T I REVIEW



RTL #
AS 7300

Duquesne Light

ULTRASONIC CALIBRATION REPORT

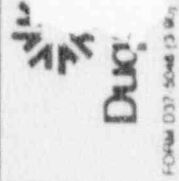
FORM D37-5048 (3-90)

CALIBRATION REPORT NO: C-90-40
 PROCEDURE(S) NO: UT-306
 REVISION NO: 3

INSTRUMENT SETTINGS		SEARCH UNIT INFORMATION		CAL. BLOCKS - SCAN AREAS & TEMPS.	
Mfg. & Model No.: KRAUTKRAMER 45L-38	Scan Angle: 0° Mode: Longitudinal	Calibration Block I.D.: RV-2			
Seral No.: 0180454 dB# 405	Measuring (IF ANY): N/A Style: GAMMA	Calibration Block Thickness: 2.0"			
Cal. Due Date: 5/31/91	Trans/Shoe Couplant: N/A	Calibration Block Temp: 77 °			
Sweep Length: 938	Actual Refracted Angle: N/A	Temperature Measuring: dB# 292			
Sweep Delay: 682	Transducer Freq. & Size: 2.25 MHz / 1.0" d.a.	Device & Due Date: 11/29/90			
Pulse Length/Dampen: N/A / FIXED	Transducer S/N: C-24771	Rompuus DW-DSC or Other I.D.: 86-4212			
Frequency Select: 2.5	Coax. Cable Type/Length: BNC/BNC 6'	Weld or Component Temp: 81 °			
Filter: FIXED Video: NORMAL	Couplant Brand: GEMMET II Batch# 8976	Calibration Surface: (OD) I.D. Other			
Jack: (T) or (R) Rep. Rate: 1K (FIXED)	Angle in Block: 0° Angle in Mat: 0°	C. R. T. Calibrated In: DEPTH			
Range: 2.5 Mode Select: SINGLE	Remarks: N/A	Each Major Division: - 1.0"			
Reject: off		To Weld ✓ = To Weld ✓			
Gain Setting: Coarse: 20 Fine: 14		Remarks: N/A			
Scanning dB: 34 dB plus 6					

ADDITIONAL REPORTS				D. A. C. POINTS			CALIBRATION CHECKS	DATE	TIME
LINEARITY	EXAMINATION	BEAM SPREAD	OTHER	REFLECTOR	SWEEP	AMPLITUDE			
L-90-36	UT-90-24	BS-90-15		1/4 T	1.7	80%	INITIAL	9/28/90	1030
				1/2 T	3.4	80%	INTERMEDIATE	N/A	N/A
				3/4 T	5.1	80%	INTERMEDIATE		
				BKR	7.0	100% +	INTERMEDIATE		
				N/A	N/A	N/A	FINAL	9/28/90	1650
EXAMINER: [Signature]	LEVEL: III	DATE: 9/28/90	REVIEWED BY: N/A	LEVEL: N/A	DATE: N/A				
EXAMINER: N/A	LEVEL: N/A	DATE: N/A	REVIEWED BY DLCo REPRESENTATIVE: [Signature]	LEVEL: III	DATE: 10-3-90				
OTHER: N/A	LEVEL: N/A	DATE: N/A	ANTI REVIEW						

E-90-7 Paq. 7 of 8



ULTRASONIC CALIBRATION REPORT

CALIBRATION REPORT NO: C-90-41
 PROCEDURE(S) NO: UT-306
 REVISION NO: 3

SEARCH UNIT INFORMATION
 Scan Angle: 45° Mode: SAEAR
 Fixturing (IF ANY): UCITE WEDGE Size: 7.0"
 Trans/Shoe Couplant: Hi Temp. Couplant
 Actual Refracted Angle: 45°
 Transducer Freq. & Size: 2.25 MHz / 1/2" x 1"
 Transducer S/N: F07922
 Coax. Cable Type/Length: 800/BNC 12'
 Couplant Brand: 40RABEC II Batch#: 8276
 Angle in Block: 45° Angle in Mat: 45°
 Remarks: N/A

INSTRUMENT SETTINGS
 Mfg & Model No.: Sonic MARK-I
 Serial No.: 08073E dB# 32
 Cal. Due Date: 3/23/91
 Sweep Length: 564
 Sweep Delay: 348
 Pulse Length/Dampen: 1/4 / off
 Frequency Select: 2.0 Video: NORMAL
 Filter: OFF Rep. Rate: 1K
 Jack: "T" or "R"
 Range: 10 Mode Select: NORMAL
 Reject: off
 Gain Setting: Coarse: 60 Fine: 8
 Scanning dB: 68dB plus 14

LINEARITY	EXAMINATION	BEAM SPREAD	OTHER	D A C POINTS			CALIBRATION CHECKS	DATE	TIME
				REFLECTOR	SWEEP	AMPLITUDE			
L-90-35	UT-90-24	BS-90-16		1/4 T	1.0 A	80%	INITIAL	9/28/90	1130
				1/2 T	2.0 B	40%	INTERMEDIATE	N/A	N/A
				3/4 T	4.0 C	28%	INTERMEDIATE	N/A	N/A
				5/4 T	6.0 D	5%	INTERMEDIATE	N/A	N/A
				F.D. NOTCH	7.0 E	80% @ 80 dB	FINAL	9/28/90	1715
EXAMINER:			LEVEL:	DATE:	REVIEWED BY:	N/A		LEVEL:	DATE:
EXAMINER:			LEVEL:	DATE:	REVIEWED BY DLCO REPRESENTATIVE:	J. M. ...		LEVEL:	DATE:
OTHER:			LEVEL:	DATE:	A N I I REVIEW:			LEVEL:	DATE:

CAL. BLOCKS - SCAN AREAS & TEMPS.
 Calibration Block ID: RV-2
 Calibration Block Thickness: 7.0"
 Calibration Block Temp: 77°
 Temperature Measuring dB# 292
 Device & Due Date: 11/29/90
 Rompus JW DSC or Other ID: 86-4212
 Weld or Component Temp: 81°
 Calibration Surface: 00 ID Other
 C R T. Calibrated In: METAL PATH
 Each Major Division: 2.0"
 To Weld To Weld

Remarks: N/A


 RTL #
 AD 7300

Duquesne Light

FORM D37-5046 (3-90)

ULTRASONIC CALIBRATION REPORT

CALIBRATION REPORT NO	C-90-42
PROCEDURE(S) NO	41-306
REVISION NO	3

INSTRUMENT SETTINGS		SEARCH UNIT INFORMATION		CAL. BLOCKS & AREAS & TEMPS.	
Mfg. & Model No.: USK-7 KRAUTKRAMER	Scan Angle: 60° Mode: SHEAR	Calibration Block I.D.: RV-2			
Serial No.: 4923-2 dB# 464	Fixturing (IF ANY): LUCITE WEDGE Style: GAMMA	Calibration Block Thickness: 2.0"			
Cal. Due Date: 9/5/91	Trans/Shoe Couplant: Hi-Temp. Couplant	Calibration Block Temp: 77 °F			
Sweep Length: 838	Actual Refracted Angle: 60°	Temperature Measuring dB#	292		
Sweep Delay: 828	Transducer Freq. & Size: 2.25 MHz 1/2" x 1"	Device & Due Date:	11/28/90		
Pulse Length/Dampen: 4x / off	Transducer S/N: E 30947	Homplus HW-DSC or Other I.D.: 86-4212			
Frequency Select: BROADBAND	Coax. Cable Type/Length: BNC/BNC 12'	Weld or Component Temp: 81 °			
Filter: FIXED Video: NORMAL	Couplant Brand: ULTRAGEL II Batch# 8976	Calibration Surface: (OD) ID Other			
Jack (T) or (R): Rep. Rate: 1K FIRED	Angle in Block: 60° Angle in Mat: 60°	C. R. T. Calibrated in: METAL PATCH			
Range: 10" Mode Select: SINGLE	Remarks:	Each Major Division: = 2.0"			
Reject: off		<input type="checkbox"/> To Weld <input checked="" type="checkbox"/> To Weld <input checked="" type="checkbox"/>			
Gain Setting: Coarse: 40 Fine: 8		Remarks: N/A			
Scanning dB: 48 dB plus 14					

ADDITIONAL REPORTS				D. A. C. POINTS			CALIBRATION CHECKS	DATE	TIME
LINEARITY	EXAMINATION	BEAM SPREAD	OTHER	REFLECTOR	SWEEP	AMPLITUDE			
L-90-37	UT-90-24	BS-90-17		1/4 T	1.8	80%	INITIAL	9/28/90	1100
				1/2 T	3.7	45%	INTERMEDIATE	N/A	N/A
				3/4 T	5.6	30%	INTERMEDIATE		
				5/4 T	8.6	18%	INTERMEDIATE		
				I.S.			FINAL	9/28/90	1700
				NOTCH	7.460dB	80%			
EXAMINER: <i>[Signature]</i> 13477	LEVEL: III	DATE: 9/28/90	REVIEWED BY: N/A	LEVEL: N/A	DATE: N/A				
EXAMINER: N/A	LEVEL: N/A	DATE: N/A	REVIEWED BY: L. C. REPRESENTATIVE: <i>[Signature]</i>	LEVEL: III	DATE: 10-3-90				
OTHER: N/A	LEVEL: N/A	DATE: N/A	AN II REVIEW						

APPENDIX IV

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 11-30-89
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #898758 898760
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Nuclear Const. Dept. Type Code Symbol Stamp Not Applicable
Name
Shippingport, PA 15077
Address Authorization No. _____
 Expiration Date _____
4. Identification of System Reactor Coolant System
5. (a) Applicable Construction Code Section III, 1971 Edition, 1972 Addenda, See N-1 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-SG21C	Westinghouse Electric	DMGT-1963	W-16600	C-steam Generator	1977	Repaired	Yes

7. Description of Work Replaced one (1) hot leg manway cover bolt-#14 location, and stacked and plugged four (4) tubes: R31C15, R31C16, R32C16, R33C16
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
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 SAP 39 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENGR Date Dec 6 19 89
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 7/17/89 to 12/13/89 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 RB8441 PA2246
Inspector's Signature National Board, State, Province, and Endorsements

Date 12/13 19 89

FORM N-1 IN CEI 'LICENSE HOLDERS' DATA REPORT FOR 'CLEAR VESSELS'

As Required by the Provisions of the ASME Code Rules, Section III, Div. 1

Sheet 1 of 2

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 Duquesne Light Company - Beaver Valley #2, Shippingport, PA
 (Name and address of Purchaser)
3. Type Vertical Kind Steam Generator Vessel No. DMGT-1963 CRN No. N/A Net Wt. No. W-16600
 (Parts, or parts.) (Type, location, heat ex.) (Mfrs. Serial No.) (Yr. Built) 1977
- 3a. Applicable ASME Code: Section III, Edition 1971, Addenda date 5 '72 Case No. 1526 1493 class 1
1484

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

4. Shell: Material SA533 Gr A Cl 1 T.S. 80,000 Nom. Thk. 1.06 in. Corr. Allow. 106 in. Diam. 8 ft. 8 in. Length 8 ft. 8 in.
 (Kind & Spec. No.) (Min. of range specified)
5. Seams: Long Weld Obl Butt H.T. Full R.T. Full Efficiency 100 %
 Girth Weld Obl Butt 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, ends) | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex Angle | Hemispherical Radius | Flat Dia. | Side to Pressure (convex or concave) |
|------------------------------|-------------|--------------|----------------|------------------|--------------------|----------------------|-----------|--------------------------------------|
| (a) <u>Top</u> | <u>3.62</u> | <u>--</u> | <u>--</u> | <u>2:1</u> | <u>---</u> | <u>---</u> | <u>--</u> | <u>Concave</u> |
| (b) _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
- If removable, bolts used _____ (Material, Spec. No., T.S., Size, Number) Other fastening _____ (Describe or attach sketch)

- N/A 7. Jacket Closure _____ (Describe as edge & weld, bar, etc. if bar, give dimensions, describe, or sketch)
8. (a) Design Pressure 1085 psi at 600 °F (b) Min. Pressure-Test Temp. 120 °F Minimum
 (c) Pneumatic, Hydrostatic, or Combination Test Pressure 1357 psi 150 °F Maximum

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary: Material SA508 Cl 2 Diam. 125.75 in. Thk. 21.03 in. Attachment Welded
 (Kind & Spec. No.) (Subject to pres.) (Welded, bolted)
- Floating: Material _____ (Kind & Spec. No.) Diam. _____ in. Thk. _____ in. Attachment _____
10. Tubes: Material SB-163 O.D. 875 in. Thk. .050 in. or gage 9+KAG Number 3384 Type U
 (Kind & Spec. No.) (Straight or U) 5 & Plugged

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

- N/A 11. Shell: Material _____ T.S. _____ (Kind & Spec. No.) (Min. of range specified) Nom. Thk. _____ in. Corr. Allow. _____ in. Diam. _____ ft. _____ in. Length _____ ft. _____ in.
12. Seams: Long _____ H.T. _____ (Welded, slot, single) (Yes or no) R.T. _____ Efficiency _____ %
 Girth Weld Obl Butt H.T. Full R.T. Full No. of Courses _____
13. Heads: (a) Material SA-216 Gr WCC 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 Diam. | Side to Pressure (convex or concave) |
|-----------------------|-------------|--------------|----------------|------------------|--------------------|----------------------|------------|--------------------------------------|
| (a) Top, bottom, ends | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| (b) Channel | <u>5.19</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>---</u> | <u>62.81</u> | <u>--</u> | <u>Concave</u> |
| (c) Floating | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
- If removable, bolts used: (a) _____ (b) _____ (c) _____ Other fastening _____ (Describe or attach sketch)
14. (a) Design Pressure 2485 psi at 650 °F (b) Min. Pressure-Test Temp. 120 °F Minimum
 (c) Pneumatic, Hydrostatic, or Combination Test Pressure 3107 psi 250 °F Maximum

If postweld heat-treated, list other internal or external pressures with coincident temperature when applicable.
 *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 14 of this Data Report is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded in item 19. Remarks
 This form (E00038) may be obtained from the Order Dept., ASME, 346 E. 47th St., New York, N.Y. 10017
 (12/21/76)

Items below to be completed for all vessels, where applicable.

PROVIDED BY OTHERS

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

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diarn. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Primary Inlet	1	31.00"	Weld End	SA216 GrWCC	1.5"	SA216 GrWCC	Integrally
Primary Outlet	1	31.00"	Weld End	SA216 GrWCC	1.5"	SA216 GrWCC	Integrally
Steam Outlet	1	29.00"	Weld End	SA508 C12	1.5"	SA508 C12	Welded
Feedwater	1	14.00"	Weld End	SA508 C12	.840"	SA508 C12	Welded

17. Inspection Manholes: No. 4 Size 16 Location (2) Chamber & (2) Upper Shell
 Openings: Handholes: No. 2 Size 6 Location Stub Barrel portion of Lower Shell
 Threaded: No. 4 Size 2 Location Stub Barrel portion of Lower Shell

18. Supports: Skirt No Lugs Four (4) Trunnions Legs ----- Other ----- Attached Integrally Cast
 (Yes or No) (Number) (Number) (Describe) (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, NB2592, PA WC2231. The Certificate of Field Assembly Inspection is to document the field hydro's and subsequent MT examination.

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

20. Application of ASME nameplate.

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 6, 1986, 19 86 Signed Westinghouse Elec Corp [Signature]
 (N Certificate Holder)

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 D. 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 Lumbermens Mut. Cas. 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 Certificate Holder 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 Certificate Holder'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 19 86 PA WC 2281
 W. Y. Jones [Signature] Inspector's Signature Commission NB7245 N LA754
 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 Lumbermens Mut. Cas. Co. of Long Grove, IL have compared the statements in this Data Report with the described pressure vessel and state that parts referred to as data items 8C, 14C and 20 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 Certificate Holder 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 1357 / 3107 psi.

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 19 86 PA WC 2281
[Signature] Inspector's Signature Commission NB7245 N PAWC 2281
 National Board, State, Province and No.

FORM N-1 IN CEA LICENSE HOLDERS' DATA REPORT FOR "CLEAR VESSELS"

As Required by the Provisions of the ASME Code-Rules, Section III, Div. 1

Sheet 2 of 2

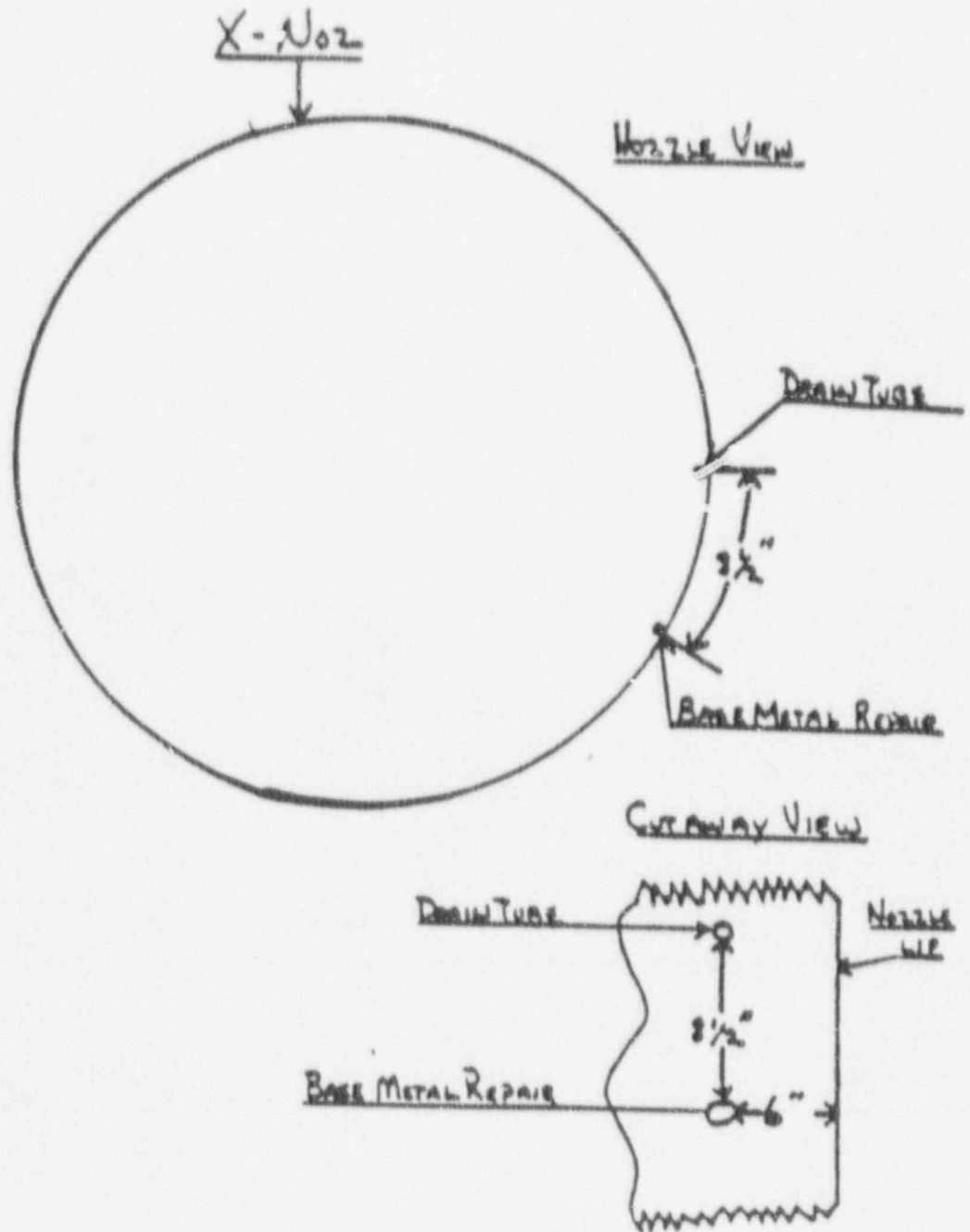
1. Manufactured by Westinghouse Electric Corporation, Nuclear Components Division
Scenic Highway, Route U.S. 90, Pensacola, FL 32514
(Name and address of N Certificate holder)

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

3. Type Vertical Kind Steam Generator Model S1 Vessel No. DMGT-1963 CRN No. N/A Nat'l Bd. No. W-16600 Tr. Built 1977
(Horiz. or vert.) (Type, location, heat ex.) (Mfrs. Serial No.)

4. Applicable ASME Code: Section III, Edition 1971 Addenda date 5 '72 Case No. 1528 1355 1526 1493 1
1484

Bead Temper Repair NB4643:



FORM NR-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 12-19-89
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 # 899691
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. 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 1971 Edition, W'72 Addenda, NCA - 3813 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-P21A	Byron-Jackson	731-N-0027	N/A	Service Water Pump	1982	Repaired	Yes

7. Description of Work Replaced bent channel and bolting of pumps seismic support

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
7/8 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 repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp Per SAP 39 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG 3 Date JANUARY 10 19 90
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 11/17/89 to 1/11/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NDP44 PA2246
Inspector's Signature National Board, State, Province, and Endorsements

Date 1/11 1990

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 BYRON JACKSON ALUMINUM, 2300 E. VERNON AVE., VERNON, CALIF. 90058
(Name and Address of N Certificate Holder)
2. Manufactured for STONE AND WEAVER ENG. CORP., BOSTON, MASS. 02107
(Name and Address of Purchaser or Owner)
* 3. Location of Installation BEAVER VALLEY POWER STATION, SHIPLEY FORT BOROUGH, 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)	<u>3/4" RXM</u>	<u>731-N-0027</u>	<u>N/A</u>	<u>1F-7511</u>	<u>3</u>	<u>N/A</u>
(2)	<u>2 STE. VCT.</u>			<u>REV. D</u>			
(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)
(Pressure) (Temperature)
7. Cold Working Pressure N/A psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
<u>TOP CASE</u>	<u>SA-216 GR. WCB</u>		<u>R/S 162885</u>
<u>SERIES CASE</u>	<u>SA-216 GR. WCB</u>		<u>R/S 162882</u>
<u>SUCTION BELL</u>	<u>SA-216 GR. WCB</u>		<u>R/S 154430</u>
<u>STUFF BOX</u>	<u>SA-216 GR. WCB</u>		<u>R/S 47179A</u>
(b) Forgings			
<u>HAIF COUPLING</u>	<u>SA-105 GR. 2</u>		<u>R/S 48969</u>

(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 (Revised)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
STUAS	SA-193 GR. B7		RIS 115041
HEX. NUT	SA-193 GR. B7		RIS 115037
HEX. NUT	SA-194 GR. 7		RIS 97736
(d) Other Parts			
COL. FLANGE	SA-515 GR. 70		RIS 47948
ELBOW PIPE	SA-515 GR. 70		RIS 158889
THROTTLE SUPPORT	SA-515 GR. 70		RIS 158690
SUPPORT PIPE	SA-106 GR. B		RIS 158885
UPPER FLANGE	SA-515 GR. 70		RIS 158641
LOWER FLANGE	SA-515 GR. 70		RIS 158641
COL. PIPE	SA-515 GR. 70		RIS 158871
COL. PIPE	SA-515 GR. 70		RIS 158870
COL. PIPE	SA-515 GR. 70		RIS 158869

8. Hydrostatic test 200 psi. Disk Differential test pressure NIA 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 Pump Div. by C.W. Hwang
 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 NIA
 Design specifications certified by (1) STEPHEN A. SHUMAN
 PE State Pennsylvania Reg. No. PE-30264-E
 Stress analysis certified by (1) NIA
 PE State NIA Reg. No. NIA
 (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 ABO LIFE MUTUAL INS. CO. of WALTHAM, MASS. have inspected the pump, or valve, described in this Data Report on OCT. 1ST 1982 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 October 1ST 1982
 Malibu, CA Calif-1408 Penn-WC 2457

CERTIFICATE OF AUTHORIZATION NO. 1130
 ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS
 DATE 7-26-1983

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 9-29-90
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 #908694
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Primary drains

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 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)
2DGS-RV115	Dresser Industrial	TG-36568	----	1.5-1905P-1	1984	Repaired	Yes
Nozzle	Dresser Industrial	AAE28	----	----		Replaced	No
Nozzle	Dresser Industrial	0512820 05418	----	----		Replacement	No

7. Description of Work Replaced safety relief valves nozzle

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 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 [Signature] Eng. I Date Oct 2 19 90
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 Sept. 3, 1990 to Oct. 2, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

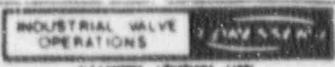
*Factory Mutual Systems

[Signature] Commissions NB 8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 2, 19 90

SERIAL NO: 10-36568
 MARK NO: 2DGS-RV-15
 TYPE:
 COMMENTS:

BBV-657



FORM NY-1-A CERTIFICATE HOLDERS DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES
 (AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION VIII, DIV. 1)

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

2. MANUFACTURED FOR Duquesne Light Co., P.O. Box 106 Shippingport, PA 15077
(NAME AND ADDRESS OF PURCHASER OR OWNER)

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

4. NC3011 N/A 1984
(TAG) (SERIAL NO.) (NATL. REG. NO.) (YEAR BUILT)

5. VALVE 1-1/2" 1905P-1-DMB34-NC3011 IDENTIFYING NOS TO-36568
(MODEL NO., SERIES NO.) (IN CERTIFICATE HOLDERS' SERIAL NO.)

TYPE Safety Relief CLASS 2

(SAFETY SAFETY RELIEF PILOT POWER ACTUATED)
 ORIFICE SIZE .674 NOMINAL INLET SIZE 1-1/2 INCH OUTLET SIZE 2 INCH

6. SET PRESSURE (PSIG) 125 RATED TEMPERATURE Saturated °F

STAMPED CAPACITY 2380 LBS. OR .10 % OVERPRESSURE BLOWDOWN (PSIG) 6
SAT. STEAM

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	AA951	SA216, Gr. WCB
BONNET OR YOK	AA902	SA216, Gr. WCB
SUPPORT BARS		
NOZZLE	AA228	SA182, Gr. F316
DISC	AA153	SA479, Type 316
SPRING CASHERS	6029535	SA105
ADJUSTING SCREW	102946	SA479, Type 316
SPINDLE	102946	SA479, Type 316
SPRING	258628	ASTM A229, Class 1
BOLTING	Studs ID92	SA193, Gr. B7
OTHER PIECES		
Nuts	M31592	SA194, Gr. 2H
Disc Holder	A12590	SA479, Type 316

*SUPPLEMENT SHEETS IN FORM OF LISTS, SKETCHES OR DRAWINGS MAY BE USED PROVIDED (1) SIZE IS 4-1/2" x 11" (2) INFORMATION IN ITEMS 1 & 2 ON THIS DATA REPORT IS INCLUDED ON EACH SHEET, AND (3) EACH SHEET IS NUMBERED AND NUMBER OF SHEETS IS RECORDED AT TOP OF THIS FORM

**Base 450 PSIG
 Disc 5575 PSIG
 Nozzle 5575 PSIG

RECEIVED

OCT 30 1984

Stone & Webster
 Engineering Corporation
 Document Review

FORM NV-1 (BACK)

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV. 1, 1974
EDITION, APPENDIX Summer 1974, CODE CASE NO. N/A

DATE 10-24-84 (DATE) SIGNED BY IVO, Dresser Ind., Inc. BY [Signature] Principal Quality Assurance Engineer
IN CERTIFICATE HOLDER'S NAME
OUR ASME CERTIFICATE OF AUTHORIZATION NO. H-1747 TO USE THE NV SYMBOL EXPIRES May 20, 1996 (or 18)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Dresser Plant, Alexandria, La.
STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT

DESIGN SPECIFICATIONS CERTIFIED BY K. Martin Bendixson
PE STATE Pennsylvania REG. NO. 27945E
STRESS REPORT CERTIFIED BY
PE STATE REG. NO.

SIGNATURE NOT REQUIRED—LIST NAME ONLY

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF LOUISIANA AND EMPLOYED BY THE HARTFORD STEAM BOILER I & I COMPANY OF HARTFORD, CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 10/24/84 AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE R CERTIFICATE HOLDER HAS CONSTRUCTED THIS PUMP, OR VALVE, IN ACCORDANCE WITH THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS.

BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT, FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

DATE 10/24/84
SIGNED [Signature] COMMISSIONS Pennsylvania WC 1776
(INSPECTOR) - NAT'L OR STATE PROB AND NO :

RECEIVED

OCT 30 1984

Webster
Corporation
Review

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 10-4-90
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 #906187
Address Repair Organization P.C. No., Job No., etc.
3. Work Performed by DLCO - Maintenance Dept. 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 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)
2SIS-RV858C	Crosby Valve	N56887-00-0046	162	RV-8855C-DMW	1975	Repaired	Yes
Disc	Crosby Valve	N90094-31-0028	----	-----	----	Replaced	No
Disc	Crosby Valve	N90094-7-5-0040	----	K56315-71	----	Replacement	No

7. Description of Work Replaced Valves disc

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 repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Code Symbol Stamp per NGAM B.5 "ASME Section XI Repair/Replacement Program"

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

Signed W. White ENG 1 Date Oct 4 19 90
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 Sept 7, 1990 to Oct 7, 1990 and state that to the best of my knowledge and belief the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J. Mucklee Commissions NB8316 PA2248
Inspector's Signature *Factory Mutual Systems
National Board, State, Province, and Endorsements
 Date Oct 7, 1990

CROSBY

CROSBY VALVE CO.

WRENTHAM, MA

FORM NO. 1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

Q.C. 648

DATA REPORT
Safety and Safety Relief Valves

2B-162

1. Manufactured By Crosby Valve & Gate Company, 43 Kendrick Street, Wrentham, Ma. 02093
Name and Address

Model No. 10-45 Order No. N-302954 Contract Date 3-30-73
Westinghouse Electric Corp., Nucleat

2. Manufactured For Energy Systems, Pittsburgh, Pa. 15230 Order No. 546-CCK-183626-RV
Name and Address

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

4. Location of Plant Shippingsport, Beaver County, Pennsylvania

5. Valve Identification RV-8855C-DMS Serial No. N56887-00-0046 Drawing No. DSC-56887 Rev. A

Type Relief Orifice Size D Pipe Size - Inlet 1 Outlet 2
Safety Safety Relief Pilot Power Actuated Inch Inch Inch Inch

6. Set Pressure (PSIG) 700 Rated Temperature 170° F

Stamped Capacity 1536 SCFM Air % Overpressure - Blowdown (PSIG) -

Hydrostatic Test (PSIG) Inlet 1050 Outlet 625

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

Class 2 Edition 1971 Addenda Date Summer 1972

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification including Type or Grade
a. Castings		
Body	<u>N90096-37-0044</u>	<u>ASTM-A351-72 Gr. CF8M</u> <u>ASME-SA351 Gr. CF8M</u>
Bonnet	<u>N90097-37-0005</u>	<u>ASTM-A351-72 Gr. CF8M</u> <u>ASME-SA351 Gr. CF8M</u>
b. Bar Stock and Forgings		
Support Rods		
Nozzle	<u>N90093-33-0044</u>	<u>ASTM-A479-71 Type 316</u> <u>ASME-SA479 Type 316</u>
Disc	<u>N90094-31-0024</u>	<u>ASTM-A479-71 Type 316</u> <u>ASME-SA479 Type 316</u>
Spring Washers	<u>N88604-48-0325</u> <u>N88604-48-0323</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Adjusting Bolt	<u>N88752-55-0491</u>	<u>ASTM-A193-70 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Spindle Pinot	<u>N88641-43-0130</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Disc Collar	<u>N90095-31-0044</u>	<u>ASTM-A479-71 Type 316</u> <u>ASME-SA479 Type 316</u>

	Serial No. or Identifier	Technical Specifications Including Type or Grade
c. Spring	<u>KE-2607-0112</u>	<u>ASTM-A313 Type 316</u>
d. Bolting		
e. Other Parts such as Pilot Components		
<u>bonnet Stud</u>	<u>89291</u>	<u>ASTM-A193-70 Gr. B660</u>
<u>bonnet Stud, Nxt</u>	<u>89295</u>	<u>ASTM-A193-71 Gr. B6 ASME-SA193 Gr. B6</u>

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

Date 9-23-71 Signed Crosby Valve & Gate Co. By [Signature]
 Manufacturer QA Manager

Certificate of Authorization No. 926 expires October 28, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Factory Mutual Systems*, Norwood, Mass. have inspected the equipment described in this Data Report on _____ 19____ 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 10-7- 19 71 Ann Part # WC 2153
[Signature] Commission NR 7321
 (Inspector) National Board, State, Province and No. 1

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

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 10-04-90
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# 896797
Address Repair Organization P.O. No., Job No., etc

3. Work Performed by DLCO - Maintenance Dept. 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, 1971 Edition, S'72 Addenda 1672 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-19	Walworth Company	D68241	1903	5350 WE 3"-600"	1973	Repaired	Yes
Cover	Walworth Company	359LP2	----	-----	-----	Replaced	Yes
Cover	Crane Aloyco	A7485	----	T2432-1 TL: L316	-----	Replacement	Yes

7. Description of Work Replaced valves Cover

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 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/ eplacement Program"

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

Signed Anna Lichte ENGR Date Nov 28 19 90
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 2/1/90 to 4/18/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

M.R. Smith Commissions 23844 PA1246
Inspector's Signature National Board, State, Province, and Endorsements

Date 2/15/90

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

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

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

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

4. Pump or Valve Valve Nominal Inlet Size 3" 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) Mfg. Bd. Yr.	(g) Year Built
(1) 5350 WE	D-68241	N/A	SK-1954-9G	2	1903	1979
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

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

6. Design Conditions psi °F or Valve Pressure Class ANSI 600 VALVE

7. Cold Working Pressure 1440 psi at 100°F.

068241

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Serial No.
(a) Castings			
Body - 617I, P6	SA 216, WCB	Walworth Company	Seal Welded Seat
Cover - 359I, P2	SA 216, WCB	Walworth Company	
Disc - 561I, P3	SA 216, WCB	Walworth Company	CoCrA Faced Seat
(b) Forgings			
		Duquesne Light Company	
		Beaver Valley Unit No. 2	
		P. O. No. 28V-73, I. O. No. 122d1	
		Carbon Steel Valves - 2 1/2 in. and Larger	
			Category I
		Walworth Company	
		Greensburg, PA 15601	

(1) For manually operated valves only.

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
c) Bolting			
Stud - 243874 (XH)	SA 193, B7	R.E.C. Corp.	
Stud - 65746 (AS)	SA 193, B7	R.E.C. Corp.	
Nut - 527090 (CY)	SA 194, 2H	R.E.C. Corp.	
d) Other Parts			
Plug - BM31	A105	Bonney Forge	
			VALVE
			DOC
			SERIAL

8. Hydraulic test 2175 psi. Die 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 1971
 Addenda June 30, 1972 Code Case No. 1672 Date 11-16-79
 Signed Walworth Company by R. Kriopt
(In Certificate Holder)
 Our ASME Certificate of Authorization No. 1951 to use the N symbol expires 12/9/80
(In) (Date)

CERTIFICATION OF DESIGN

Design information on file at Walworth Company, Greensburg, Pa, 15601
 Stress analysis report (Class 1 only) on file at N/A
 Design specifications certified by (1) C. O. Richardson, Jr. Durango Light Company
PE State Pa. Reg. No. 016297E Beaver Valley Unit No. 2
 Stress analysis certified by (1) N/A P. O. No. 23V-73, J. O. No. 12241
PE State N/A Reg. No. N/A Carbon Steel Valves - 2 1/2 in. and larger
Category 1
 (1) Signature not required. List name only.
Walworth Company
Greensburg, PA 15601

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co. of Hartford, Conn. 06102 have inspected the pump, or valve, described in this Data Report on 11-16 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 11-16 19 79 Commissions NCE375(N) PA2261
(Inspector) (Natl. 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 10-90
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 #908695
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. 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 IIIB 74 Edition, 8'74 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)
2RSS-RV156B	Dresser Industrial	TE-97421	----	3/4"-1975-3	1983	Repaired	Yes
Body	Dresser Industrial	AAN78	----	----	---	Repaired	No

7. Description of Work Machined .005" from nozzle area of body to remove pitting

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 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 *Thomas J. Uke* ENG 2 Date Oct. 4 19 90
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 Sept. 7, 1990 to Oct. 4, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Tom Nuckee Commissions NB 8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 4, 19 90

TYPE:
COMMENTS:

BY-657

INDUSTRIAL VALVE OPERATIONS **DRESSER**

ALEXANDRIA, LOUISIANA 71301

FORM NY-1 IN 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, DRESSER INDUSTRIES INC HIGHWAY 71 NORTH ALEXANDRIA, LA
(NAME AND ADDRESS OF IN CERTIFICATE HOLDER)
MANUFACTURED FOR Duquesne Light Co., P.O. Box 186 Shippingport, PA 15077
(NAME AND ADDRESS OF PURCHASER OR OWNER)
3. LOCATION OF INSTALLATION Duquesne Light Co., Beaver Valley Pwr.Sta., Unit 2, Shippingport PA 15077
(NAME AND ADDRESS)
4. NC3011 N/A 1983
(CRN) (DRAWING NO.) (NATL. BRO. NO.) (YEAR BUILT)
5. VALVE 3/4" 1975-3-XMB1-NC3011 IDENTIFYING NOS TE-97421
(MODEL NO. SERIES NO.) (IN CERTIFICATE HOLDERS' SERIAL NO.)
TYPE Safety Relief CLASS _____
(SAFETY SAFETY RELIEF; PILOT; POP-UP ACTUATED)
ORIFICE SIZE .375 INCH NOMINAL INLET SIZE 3/4 INCH OUTLET SIZE 1 INCH
8. SET PRESSURE (PSIG) 196 RATED TEMPERATURE Saturated °F
STAMPED CAPACITY 1,015 LBS/HR. @ 10 % OVERPRESSURE BLOWDOWN (PSIG) Fixed
SAT. STEAM
HYDROSTATIC TEST (PSIG) INLET **See Below OUTLET ***See Below
(APPLICABLE TO VALVES FOR CLOSED SYSTEMS ONLY)

7. PRESSURE RETAINING PIECES	SERIAL NO. OR IDENTIFICATION	MATERIAL SPECIFICATION INCL. TYPE OR GRADE
BODY	AAN78	SA182, Gr. F316
BONNET OR YOKER	AAN28	SA351, Gr. CF8M
SUPPORT ROOFS		
NOZZLE		
RISC	AAC21	SA182, Gr. F316
SPRING WASHERS	A11781	SA479, Type 316
ADJUSTING SCREW	D84	SA182, Gr. F316
SPINDLE	A19285	SA182, Gr. F316
SPRING	09472	A977, A313, Type 316
BOLTING		
OTHER PIECES		

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

**Base 600 PSIG
Disc 2000 PSIG

***Bonnet 600 PSIG

FORM NV-1 (BACK)

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV. 1, 1974

EDITION, ADDENDA Summer 1974 CODE CASE NO. N/A

DATE 6-7-73 SIGNED IVO, Dresser Ind., Inc. BY [Signature] Principal Quality Assurance Engineer
(IN CERTIFICATE HOLDER)

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1747 TO USE THE NV SYMBOL EXPIRES May 20, 1986 (NY)
(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 Bendixsen

PC STATE Pennsylvania REG. NO. 27948E

STRESS REPORT CERTIFIED BY _____ REG. NO. _____

¹SIGNATURE NOT REQUIRED—LIST NAME ONLY

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF LOUISIANA AND EMPLOYED BY THE HARTFORD STEAM BOILER I & I COMPANY OF HARTFORD CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 6-8 IS 88 AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE N CERTIFICATE HOLDER HAS CONSTRUCTED THIS PUMP, OR VALVE, IN ACCORDANCE WITH THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS.

BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT, FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION

DATE 6-8 IS 88 SIGNED [Signature] COMMISSIONS Pennsylvania WC2605
(INSPECTOR) (NAT'L OR 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 10/4/90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 908282
Repair Organization P. O. No., Job No., etc.
3. Work Performed by DLCo - Maintenance Dept. 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 71 Edition W'72 Addenda ----- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 BPE-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-RV551A	Crosby Valve Co.	N56963-00-0007	N/A	6RV88LSB	1976	Replaced	Yes
2RCS-RV551A	Crosby Valve Co.	N56963-01-0011	N/A	Spare	1985	Replacement	Yes

7. Description of Work Replaced valve with like kind
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 NPV-1 form attached

Applicable Manufacturer's Code 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 8.1 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENB I Date Dec 6 19 90
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 Sept. 3 to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

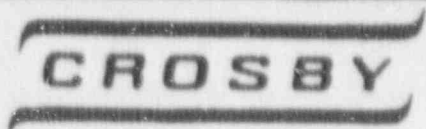
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury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

*Factory Mutual Systems

[Signature]
Inspector's Signature
Date Dec. 6 19 90

Commission No. NB 8316 PA 2248
National Board, State, Provincial, and Endorsements

8-18-87
8-18-87 Corrected Report 8/18/87



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-86-11 Order No. N23911 Contract Date 1/8/83 National Board No. --
Alabama Power Company

2. Manufactured for P.O. Box 2641, Birmingham, AL 35291 Order No. FNP2-4520
Name and Address

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

Location of Plant Polunnia, AL

Identification SPARE Serial No. N56963-01-0011 Drawing No. DS-C-56963-1 Rev. 0

Type Safety Orifice Size M1 Pipe Size 1/2 Inlet 6 Outlet 6
Safety Safety Relief Pilot Power Actuated Inch Inch Inch

4. Set Pressure (PSIG) 2485 Rate of Temperature 0
344.81
278-3762V-906 12 1/2 hr saturated steam
Standard Capacity 3 % Overpressure 5% Blowdown ---

Hydrostatic Test (PSIG) 4575 Complete Valve 750 psig

7. The material, design, construction and workmanship comply with ASME Code, Section III
Class I Edition 1971, Addenda Date Winter 1972, Case No. --

Pressure Containing or Pressure Retaining Components

Bar Stock & Forgings	Serial No. Identification	Material Specification Including Type or Grade
Body	N94627-31-0001	ASTM A182 Gr. F316
Bonnet	N94633-99-0001	ASTM A105 Gr. II
Bar Stock and Forgings Disc Holder	N94629-31-0002	ASTM A637 Gr. 718
Nozzle	N94628-99-0001	ASTM A182 Gr. F316
Disc Insert	N94630-31-0001	Haynes Stellite Alloy No. 6B
Spring Washers K65092-31-0001	N94634-31-0001	ASTM A105 Gr. II
Adjusting Bolt	N 4635-32-0002	ASTM A193 Gr. B6
Spindle Point	N94631-31-0001	ASTM A193 Gr. B6
Spindle Ball	N94632-99-0001	ASTM A276 Type 440C

* 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.

Remarks: Report corrected to revise the capacity.

Lawrence J. Pires 2-18-87
Crosby Quality Assurance Date

[Signature] MA 1375 8-19 87
Factory Mutual ANI Date

	Serial No. or Identification	Material Specification Including Type or Grade	
c. Spring	K65092-31-0001	NX4760-99-0001	ASTM A304 Gr. 51B60H
d. Bolting			
e. Other Parts such as Pilot Components			
Inlet Stud	N90488		ASTM A453 Gr. 660
Inlet Nut	N90489		ASTM A193 Gr. B6
Bonnet Stud	100987		ASTM A453 Gr. 660
Bonnet Nut	89997		ASTM A193 Gr. B6

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

Date 3-27-1985 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] (Inspector) Commissions MASS. 1303
National Board, State, Province and No.

CONTROL LEVEL 2

STONE & WEBSTER ENGINEERING CORPORATION
 BEAVER VALLEY POWER STATION UNIT 2
 DUQUENNE LIGHT COMPANY
 J.O. 12241

SLIP NUMBER S & W FILE NO. (E11) (25-34) (25-35)
 27065110001255A

REMARKS (LIMIT TO 23 CHARACTERS & 2 LINES) (E2-74)
 (CODES OF SPECIAL REQUIREMENTS)
 ASME III CLASS 1

S & W EQUIP. I.D. CODE (E1)
 (25-36) 2RCS*RV551A

AREA DESIGNATION
 CODES (E11) (75-80) NA

MPR'S DOC. NO. (E11) (LIMIT TO 24 CHARACTERS & BLANKS) (27-00)
 (INCLUDE DOC. REV. OR DATE)
 6RV PFLSB / LOC: 8010A

MPR'S NAME (E11) (LIMIT TO 30 CHARACTERS & BLANKS) (E1-00)
 WESTINGHOUSE

DATE MONTH DAY YEAR (28-30) DOC TYPE (E11) (21) MAX DAYS IN REVIEW (E11) (20-32)
 10 27 77 W 01

FUNCTIONAL TITLE (E11) (LIMIT TO 44 CHARACTERS & BLANKS) (27-00)
 PRESSURIZER SAFETY VALVE

S & W FILE NO. (E11) (E1) (11-20) (21-34)
 27065110001255B

JOB ORDER NO. 12241 00

SUPPLIER'S DOCUMENT DATA FORM

REVIEW & RETURN TO SUPPLIER REQUIRED (E11)
 FOR INFORMATION ONLY - NO REVIEW REQUIRED (E11)

RESP. ENG. DEPT./DIV. (E11)
 R. WALLACE SEG

REVIEWER DEPT./DIV. (E11)
 C. SMITH DRG

DATE TO REVIEWER (E11) REQUIRED RETURN DATE (E11)
 4-1-87 4-1-87

REVIEW STATUS (R)
 APPROVED AS DEFINED IN SPECIFICATION
 APPROVED AS REVISED REV. DATE NA
 UNACCEPTABLE ADD. NA

REVIEWER'S SIGNATURE (R1) DATE
 (Signature) 5-16-87

RESPONSIBLE ENGINEER'S DATE STAMP (E2)
 (Signature)

IC PROJECT CLERK (R1) REVIEWER
 (E11) RESPONSIBLE ENGINEER PRIOR TO REVIEW
 (E2) RESPONSIBLE ENGINEER AFTER REVIEW

REVISIONAL REQ'D. (E3) REVISIONAL REQUIRED DATE (E2)
 YES NO NA

TYPE CODE (E11) REQUIREMENT NO. (E1)
 A3.220 E9870522 0021

Released by SHHC for ASME III Data Reports and traceability to the ILM as they apply to SHHC's installation and code stamping activities.

SNOC P.O. #2111-1
 H. MARK P. NA
 H. SHAW ORDER # 220
 W.P.O. # 17R357
 O.B. # 2RFY1 - 1
 W.C. # NA
 W.C. # NA
 W.C. # NA
 SPECIAL # N56963-00-0007
 P.A. # NA
 P.G. # NA
 Valve Type SAFETY
 LEAK QUALIFIED NA

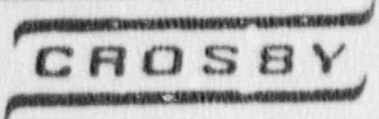
SNOC VISA #'s
 U.B. - SPEC. NA
 V Instruction Manual NA
 V Stress Report NA
 V Test Reports NA
 V Drawings 2006.510001-006A
 2006.420 001-002A

W.C. # NA

NOTE THIS SOURCE SUPPLIER'S FILE # 2706.510001-255A IS ISSUED TO AND VERIFIED DATA FILE

ATTACH TO DOCUMENT





CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

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

C.C. 447

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick Street, Wrentham, Ma 02003
Assoc. No. N-56963 6M1 Name and Address

Model No. HD-86B Order No. N-101157 Contract Date 4-4-73 National Board No. ---
Westinghouse Electric Corp., Nuclear
2. Manufactured For Energy Systems, Pittsburgh, Pa 15200 Order No. 54E-CCK-178157-BM
Name and Address

3. Order Dyquene Light Co., Beaver Valley Power Station, Beaver Valley Unit #2
Name and Address

4. Location of Plant Shippingport Beaver County, Pennsylvania

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

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

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

Discharge Capacity 344972 lbs./hr. % Overpressure 3 Blowdown (PSIG) 125 psig

Hydraulic Test (PSIG) Inlet 4575 psig Complete Valve 750 psig

7. The material, design, construction and workmanship comply with ASME Code, Section III
Class 1 Edition 1971, Addenda Date Winter 1972, Case No. ---

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification Including Type or Grade
a. Bar Stock & Forgings		ASTM-A182-71 F316 ASME-SA182 F316
Body	<u>N90490-11-0040</u>	
Bonnet	<u>N90351-16-0056</u>	ASTM-A105-71 Gr. 2 ASME-SA105 Gr. 2
b.		
Support Ends		ASTM-A182-71 F316 ASME-SA182 F316
Nozzle	<u>N90556-11-0000</u>	
Disc Holder	<u>N90551-15-0075</u>	ASTM-A617 Gr. 219 ASTM-A105-71 Gr. 2 ASME-SA105 Gr. 2
Spring Washers	<u>N90351-11-0000</u>	
Adjusting Bolt	<u>N90351-11-0000</u>	
Spindle Point	<u>N90354-12-0000</u>	
Disc Insert	<u>N90349-17-0101</u>	Haynes Stellite No. 6B
Spindle Ball	<u>N90355-0092</u>	ASTM-A276-71 Type 316

	Serial No. or Identification	Material Specification including Type or Grade
c. Spring	MX-2761-0074	ASTM-A306 Gr. 51860H
d. Bolting		
e. Other Parts such as Pilot Components		
Donnet Stud	100883	ASTM-A453 Gr. 660
Donnet Stud Nut	89997	ASTM-A193-78 Gr. B6 ASTM-A193 Gr. B6
Inlet Stud	W90488-0513 thru 0524	ASTM-A453 Gr. 660
Inlet Stud Nut	W90489-0513 thru 0524	ASTM-A193-78 Gr. B6 ASTM-A193 Gr. B6

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

Date 7-22 1970 Signed [Signature] Manufacturer
[Signature] QA Manager

Certificate of Authorization No. 926 expires October 26, 1977

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of MASS. and employed by FACTORY MUTUAL INSURANCE COMPANY inspected the equipment described in this Data Report in MASS. and I state that in the best of my knowledge and belief, the Manufacturer has manufactured 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 therefrom connected with this inspection.

Dated March 29, 1970
Donald J. Chinn Commission Penna. WS 2035 H.A.S. #90

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

FILED OCT 1977

WESTINGHOUSE ELECTRIC CORPORATION
NUCLEAR ENERGY SYSTEMS
PWR SYSTEMS DIVISION

288471-120

OFF. CO.	DATE P.L.B.	PROJECT P. O.	PROJECT	S. O. NO.	DR. CO.	NO.	DATE	TR.
CC.K	178340	1,7,8,3,5,7	D.N.W.	220	"	"	1,9,11,7,7	
CROSS VALVE		42		0	008	009		
678838 REV. 0		N/A		DSC 56963 REV. C.				
13		N/A		PRESSURIZED SAFETY VALVE				3
N56963-00-0007 GRV88LSB								
-0008 1								
N56963-00-0009 GRV88LSB								

The standards listed below have been approved by G.A. Code designation are: A-acceptability; C-continuity; M-maintenance; W-witness; S-SAF (non-applicable items are listed out. Records are available for audit.

ASBIL SERIALITY

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
A	Inspection Certifications		Operating (Witness) Test Records	A	Visual Inspection
	Test Report Records		Shutdown (Witness) Test Records	A	Dimensional Inspection
	Test Data and Records	A	Pressure Test Records	A	Cleanliness
A	PLANT Records	A	Seat Tightness Test Records	A	Painting
A	VT Records	A	Performance Test Records	A	Plating
A	Approved Stress Report	A	Welding Personnel Qual. Cert.		
	Approved Design Analysis	A	NDE Personnel Qual. Cert.		
	Structural Handing through to the field	A	Radio Field Personnel		
		A	Code Form NV-1		

REMARKS

THIS SUPPLEMENT IS TO RELEASE VALVES FROM STORAGE. THE VALVES HAVE BEEN VISUALLY EXAMINED AND FOUND ACCEPTABLE TO THE MAINTENANCE P.O. (SEE REF. P.O. #20612R) REQ' MTS AND PROPERLY MAINTAINED WHILE IN STORAGE. ALSO ADD'D CODE FROM TYPE TO CHECKLIST

J.W. Gillett

The Westinghouse Corporation and its subsidiaries and their employees are not responsible for the accuracy or completeness of the information contained herein. It is the user's responsibility to verify the accuracy and completeness of the information contained herein before using it for any purpose. The Westinghouse Corporation and its subsidiaries and their employees are not responsible for the accuracy or completeness of the information contained herein.

VALVE DATA PACKAGE

SUPPLIER CROSBY

U.P.O. # 346-CCK-17F-357-BN S/N (V) M 56963-00-0007
 SUPPLIER S/O # M 303157 S/N (O) N/A
 E-SPEC 678838 REV. 0 ✓ TAG # N/N
 ASST. DWG. DSC 56963 REV. C ID # U 2V88L50
 PROJECT 201W P & V CLASS (I); (II); (III)

IDENT.	BODY FLANGE	INSERT DISC	NOZZLE	SOCKET
S/N	<u>M 1349-97-0040</u>	<u>M 1349-97-0021</u>	<u>M 1356-33-0001</u>	<u>M 1352-96-0150</u>
HEAT NO.	<u>M 4392</u>	<u>M 102-1043</u>	<u>534661</u>	<u>1028374</u> <u>279</u>

THE ABOVE COMPONENT WAS FABRICATED USING THE FOLLOWING U APPROVED PROCEDURES FOR THIS ORDER (✓ INDICATES PROCEDURE APPROVAL REQUIRED)

TITLE	NO./REV.	TITLE	NO./REV.
<input checked="" type="checkbox"/> PT (AS-CAST/FRG'D SURF)	<u>FP3-A</u>	<input type="checkbox"/> WELD	
<input checked="" type="checkbox"/> PT (MACH. SURF.)	<u>LP1014-1</u>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> UT (BODY, SOCKET)	<u>FP31-A</u>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> UT (STEM, DISC)	<u>LP1014-1</u>	<input type="checkbox"/>	
<input type="checkbox"/> RT	<u>U-1824-0</u>	<input type="checkbox"/>	
<input type="checkbox"/> HT	<u>EU-1685-0</u>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> HYDRO TESTS	<u>U-1409-0</u>	<input type="checkbox"/> WELD REPAIR	
<input type="checkbox"/> ELECTRICAL TESTS		<input checked="" type="checkbox"/> FRG. PROC.	<u>QAL-3260- 3</u>
<input type="checkbox"/> HEAT TREAT		<input checked="" type="checkbox"/> INSP. PT PROC.	<u>QAL-3260- 3</u>
<input checked="" type="checkbox"/> WALL THICKNESS	<u>I-16069- 2</u>	<input checked="" type="checkbox"/> HARDFACE	<u>HN-1227-1</u>
<input type="checkbox"/> PAINTING		<input checked="" type="checkbox"/> TORQUE	<u>A-1522- 1</u>
		<input type="checkbox"/> CLEAN/PACK.	<u>C-1671- 0</u>
		<input checked="" type="checkbox"/> PACKING	<u>P-1740- 2</u>
		<input checked="" type="checkbox"/> ASSEMBLY	<u>A-1522- 1</u>

This is to certify that all processing and materials used in the manufacture of subject parts conforms to the specifications, drawings, and/or other description set forth in the subject purchase order; that the parts are of good material and workmanship, and that all necessary records including chemical and physical, seat leakage, hydrostatic and final test reports, etc. will be available upon request.

Handwritten: 8/29/76
1308885

SIGNATURE [Signature] DATE 8/29/76
 TITLE QA MANAGER

(HA)

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 10-1-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #898944
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. Type Code Symbol Stamp Not Applicable
Name
Shippingport, PA 15077
Address Authorization No. _____
 Expiration Date _____
4. Identification of System Safety injection
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)
2SIS-RV175	Dresser Industrials	TG-3C5 67	----	3/4" 1975-3	1984	Repaired	Yes
Disc	Dresser Industrial	AAJ44	----	-----	---	Replaced	No
Disc	Dresser Industrial	AAK81	----	HT #A16280	---	REplacement	No
Base	Dresser Industrial	A19723	----	-----	----	Replaced	No
Base	Dresser Industrial	AAU60	----	HT #A12433	----	Replacement	No

7. Description of Work: Replaced valves disc and base (nozzle)
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)

NPV-1 form attached

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.

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 M. Chab ENG I Date Dec 28 19 90
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 Sept. 3 to Nov 22, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this 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.

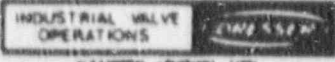
*Factory Mutual Systems

[Signature] Commissions NB 8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 28, 19 1990

SERIAL NO: TG-36567
 MARK NO: 2S18-RV175
 TYPE:
 COMMENTS:

2BV-65



FORM NO. 1 - IN CERTIFICATE HOLDERS DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES
 (AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION VIII, DIV. 1)

1. MANUFACTURED BY INDUSTRIAL VALVE OPERATIONS, DRESSER INDUSTRIES INC, HIGHWAY 71, NORTH ALEXANDRIA, LA
 (NAME AND ADDRESS OF MANUFACTURER)
 2. MANUFACTURED FOR Duquesne Light Co., P.O. Box 186 Shippingport, PA 15077
 (NAME AND ADDRESS OF PURCHASER OR OWNER)
 3. LOCATION OF INSTALLATION Duquesne Light Co., Beaver Valley Pwr. Sta., Unit 2, Shippingport PA 15077
 (NAME AND ADDRESS)
 4. _____ (CON.) _____ (SERVING NO.) _____ (MATERIAL NO.) _____ (YEAR BUILT)
 5. VALVE 3/4" 1975-3-XPL51-NC3011 IDENTIFYING NOS. TG-36567
 (MODEL NO. SERIES NO.) (IN CERTIFICATE HOLDERS' SERIAL NO.)
 TYPE Safety Relief CLASS 2
 (SAFETY, SAFETY RELIEF PILOT POWER ACTIVATED)
 ORIFICE SIZE .375 INCH NOMINAL INLET SIZE 3/4 INCH OUTLET SIZE 1 INCH
 6. SET PRESSURE (PSIG) 700 RATED TEMPERATURE Saturated
 STAMPER CAPACITY 3463 LBS. NO. 10 OVERPRESSURE BLOWDOWN (PSIG) Fixed
 (SAT. STEADY)
 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)
BOUET	AART8	SAA79, Type 316
BONNET OR YOGG	KAPR7	SAT16, OF. WCB
SUPPORT SETS		
NOZZLE		
DISC	AAJ88	SAA79, Type 316
SPRING WASHERS	TT5359	SAT05
ADJUSTING SCREW	TG2986	SAA79, Type 410
SPINDLE	S-91	SAA79, Type 410
SPRING	CR3153	ASTM A229, CLEAN T
BOLTING		
OTHER PIECES		
Base Extension	A19723	SAT82, OF. P316
Base Flange	6061632	SAT05
Bonnet Extension	6061632	SAT05
Bonnet Flange	6061632	SAT05

*SUPPLEMENT SHEETS IN FORM BY LISTS, SKETCHES OR DRAWINGS MAY BE USED PROVIDED: (1) SIZE IS 4" 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

RECEIVED

OCT 30 1984

**Basis 2175 PSIG
 Disc 3000 PSIG

12214

White & Webster
 Engineering Corporation
 Document Review

FORM NV-1 (BACK)

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV. 1, 1974 EDITION, ADDENDA Summer 1974, CODE CASE NO. NA

DATE 10-28-84 SIGNED IVO, Dresser Ind., Inc. BY J.P. [Signature] IN CERTIFICATE HOLDER: PRINCIPAL QUALITY ASSURANCE Engineer

ASME CERTIFICATE OF AUTHORIZATION NO. N-1747 TO USE THE 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 Bendiksen PE STATE Pennsylvania REG. NO. 27948E

STRESS REPORT CERTIFIED BY PE STATE REG. NO.

SIGNATURE NOT REQUIRED—LIST NAME ONLY

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF LOUISIANA AND EMPLOYED BY THE HARTFORD STEAM PIPES & COMPANY OF HARTFORD, CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 10/28/84 AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IN 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, FUTURE OR NOT. NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

DATE 10/28/84 1984 SIGNED [Signature] COMMISSIONS Pennsylvania WC 1776 (INSPECTOR) (NAT'L BO STATE PROV AND NO)

12034

RECEIVED OCT 30 1984 Webster Corporation Instrument Division

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 10-6-90
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 #909285
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Maintenance Dept. 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 77 Edition, S'77 Addenda 1539 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-465	Kerotest Manufacturing		---	SW-D-9909 - (2)		Repaired	Yes
Disc	McWilliams Forge		-----	-----	----	Repaired	No

7. Description of Work Machined .005" from valve disc

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 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 [Signature] EUG 1 Date Nov. 13 19 90
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 Sept. 7, to Nov. 13, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 13, 19 90

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 10/06/90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR# 909310
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DlCo - Maintenance Dept. 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 Cases
 (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-RV551C	Crosby Valve Co.	56963 00-0008	-----	6RV88LSB	1976	Replaced	Yes
2RCS-RV551C	Crosby Valve Co.	N56963- 00-0007	-----	6RV88LSB	1976	Replacement	Yes
Inlet Stud	Cardinal Co.	HT #6L8 333	-----	Heat Trace 660BZB4	----	Replacement	No
Inlet Nut	Crosby Valve Co.	HT#861477	-----	-----	----	Replacement	No

7. Description of Work Replaced valve and one (1) inlet stud and nut

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

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. Note - valve S/N N56963-01-0011 was replaced
by valve S/N N56963-00-0008 Applicator's Manufacturer's Data Reports to be attached earlier during 2R on a temporary basis.

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 *Thomas A. White* ENG I Date Nov. 27 19 90
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

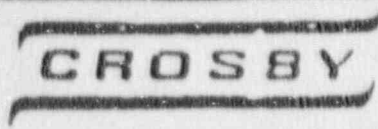
have inspected the components described in this Owner's Report during the period 9/27/00 to 11/27/00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Factory Mutual Systems

Michael A. Smith MB 8-41 PA 266
Inspector's Signature Commissions National Board, State, Province, and Endorsements

Date 11/17 19 00



CROSBY VALVE & GAGE COMPANY
 WINTHAM, MASS

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

QC-44C

DATA REPORT
 Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 41 Kendrick Street, Wintham, Ma 02003
 Name and Address
 Assoc. No. B-56963 GN₁

Model No. HR-86B Order No. N-101157 Contract Date 5-4-73 National Board No. ---
 Westinghouse Electric Corp., Nuclear

2. Manufactured For Energy Systems, Pittsburgh, Pa. 15230 Order No. SAE-CKK-178157-BN
 Name and Address

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

4. Location of Plant Shippingport Beaver County, Pennsylvania

5. Valve Identification 6KVB8LSB Serial No. N56963-00-0007 Drawing No. DS-C-56963 Rev. C-

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

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

Shipped Capacity 344972 lbm/hr @ 1.5 Overpressure 53 Blowdown (PSIG) 125 psig

Hydraulic Test (PSIG) Inlet 4575 psig Complete Valve 750 psig

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

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

Processes Consisting of Processes Requiring Compliance

	Serial No. Identification	Material Specification including Type or Grade
a. Bar Stock & forgings		
Body	<u>N90490-33-0040</u>	<u>ASTM-A182-71 F316</u> <u>ASME-SA182 F316</u>
Bonnet	<u>N90351-36-0056</u>	<u>ASTM-A105-71 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
b.		
Support Bolt	<u>N90556-31-0017</u>	<u>ASTM-A182-71 F316</u> <u>ASME-SA182 F316</u>
Nut	<u>N90553-35-0075</u>	<u>ASTM-A637 Gr. 2</u>
Disc Holder	<u>N90350-35-0039</u>	<u>ASTM-A105-71 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
Spring Washers	<u>N90351-35-0037</u>	<u>ASTM-A105-71 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
Adjusting Bolt	<u>N90354-37-0038</u>	<u>ASTM-A105-71 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
Spindle Point	<u>N90349-37-0121</u>	Haynes Stellite No. 6B
Disc Insert	<u>N90355-0092</u>	ASTM-A276-71 Type 316
Spindle Ball		

	Serial No. or Identification	Material Specification including Type or Grade
1. Spring	KX-2761-0074	ASTM-A304 Gr. 3160H
2. Bolting		
3. Other Parts such as Pilot Components		
Bonnet Stud	100887	ASTM-A193 Gr. B6 ASME-SA193 Gr. B6
Bonnet Stud Nut	89997	ASTM-A193 Gr. B6 ASME-SA193 Gr. B6
Inlet Stud	M90488-0513 thru 0524	ASTM-A193 Gr. B6 ASME-SA193 Gr. B6
Inlet Stud Nut	M90489-0513 thru 0524	ASTM-A193 Gr. B6 ASME-SA193 Gr. B6

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

Date 7-22 1976 Signed [Signature] Manufacturer
[Signature] QA Manager

Certificate of Authorization No. 926 expires October 28, 1977

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Factory Mutual Insurers, Wrentham, Mass. inspected the equipment described in this Data Report in MASSA. and I hereby state that in the best of my knowledge and belief, the manufacturer has manufactured this equipment in accordance with the applicable Subsections of ASME Section III.

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

Date March 29, 1976
Donald J. Chace Commission Perma WS 2035 Nov. 1976

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

FILED OCT 1 1977

WAREHOUSE ELECTRIC CORPORATION
NUCLEAR ENERGY SYSTEMS
PIPE SYSTEMS DIVISION

BUY CO.	BASE P.O.	PROJECT P.O.	PROJECT	S.O. NO.	REV. NO.	DATE	YR.
CCK	78340	1,7,8,3,5,7	D.M.W.	220	10	1,9,11,7,7	77
CROSS VALVE		42	0	008	009		
C78838 REV. 0		N/A	DSC 56963 REV. C.				
13	N/A	PRESSURIZED SAFETY VALVE			3		
<p>156963-00-0007 GRV88LSB</p> <p>-0008 1</p> <p>156963-00-0009 GRV88LSB</p>							

The conditions listed below have been reviewed by G.A. Each description are: A-acceptable; C-coverage; S-absence of the condition covered by G.A. Non-applicable items are listed as N/A. Records are available for audit.

AVAILABILITY

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
A	Material Certifications		Operating Electrical Test Records	A	Visual Inspection
	Material Test Records		Non-Operating Electrical Test Records	A	Dimensional Inspection
	Welding Test Records	A	Pressure Test Records	A	Cleanliness
A	PIWT Records	A	Seat Tightness Test Records	A	Painting
A	VT Records	A	Performance Test Records	A	Packaging
A	Approval Status Report	A	Working Personnel Qual. Cert.		
	Approval Design Analysis	A	Weld Personnel Qual. Cert.		
	Control-Matching-Storage-Test-Records	A	Radio Pile Passbook		
		A	Order Form NV-1		

THIS SUPPLEMENT ISSUED TO RELEASE VALVES FROM STORAGE. THE VALVES HAVE BEEN VISUALLY EXAMINED AND FOUND ACCEPTABLE TO THE WAREHOUSE P.O. (SEE REF. PD #286138) REQ'MTS AND PROPERLY MAINTAINED WHILE IN STORAGE. ALSO ADD'D CODE FORM TYPE TO CHECKLIST

The inspection together with records for the condition of these valves, shall be a part of the permanent records of the project. The project shall be maintained in accordance with the requirements of the project. The project shall be maintained in accordance with the requirements of the project. The project shall be maintained in accordance with the requirements of the project.

J.W. Gill

(U)
VALVE DATA PACKAGE

SUPPLIER CROSBY

W.P.O. # 46-COX-178-357-BN S/N (V) N 56963-00-0007
 SUPPLIER S/O # N 303157 S/N (O) N/A
 E-SPEC 678838 REV. 0 ✓ TAG # N/N
 ASSY. DWG. DSC 56963 REV. C ID # U 2V88LSB
 PROJECT DMW P & V CLASS (I); (II); (III)

IDENT.	BODY FLANGE	INSERT DISC	NOZZLE	SOCKET
S/N	<u>N90190-89-0040</u>	<u>N91349-97-01R1</u>	<u>N91556-33-0001</u>	<u>N91352-96-1150</u>
HEAT NO.	<u>K4992</u>	<u>V1810-2-1043</u>	<u>534661</u>	<u>1034374</u> <u>C79</u> ✓

THE ABOVE COMPONENT WAS FABRICATED USING THE FOLLOWING U APPROVED PROCEDURES FOR THIS ORDER (✓ INDICATES PROCEDURE APPROVAL REQUIRED)

TITLE	NO./REV.	TITLE	NO./REV.
<input checked="" type="checkbox"/> PT (AS-CAST/FRG'D SURF)	<u>FP3-A</u>	<input type="checkbox"/> WELD	
<input checked="" type="checkbox"/> PT (MACH. SURF.)	<u>LP1011-1</u>	<input type="checkbox"/> _____	
<input checked="" type="checkbox"/> UT (BODY, SOCKET)	<u>FP31-N</u>	<input type="checkbox"/> _____	
<input checked="" type="checkbox"/> UT (STEM, DISC)	<u>LP1011-1</u>	<input type="checkbox"/> _____	
<input type="checkbox"/> RT	<u>V-1824-0</u>	<input type="checkbox"/> WELD REPAIR	
<input type="checkbox"/> MT	<u>V-1824-0</u>	<input checked="" type="checkbox"/> PROC. PROC.	<u>QAI-3260-3</u>
<input checked="" type="checkbox"/> HYDRO TESTS	<u>V-1824-0</u>	<input checked="" type="checkbox"/> INSP. PT PROC.	<u>QAI-3260-3</u>
<input type="checkbox"/> ELECTRICAL TESTS	<u>V-1824-0</u>	<input checked="" type="checkbox"/> HARDFACE	<u>HAI-1927-1</u>
<input type="checkbox"/> HEAT TREAT	<u>I-16069-2</u>	<input checked="" type="checkbox"/> TORQUE	<u>A-1522-1</u>
<input checked="" type="checkbox"/> WALL THICKNESS	<u>WT-1612-7</u>	<input type="checkbox"/> CLEAN/PACK.	<u>C-1671-0</u>
<input type="checkbox"/> PAINTING	<u>PF-1002-</u>	<input checked="" type="checkbox"/> PACKING	<u>P-1750-2</u>
		<input checked="" type="checkbox"/> ASSEMBLY	<u>A-1522-</u>

This is to certify that all processing and materials used in the manufacture of subject parts conforms to the specifications, drawings, and/or other description set forth in the subject purchase order; that the parts are of good material and workmanship, and that all necessary records including chemical and physical, seat leakage, hydrostatic and final test reports, etc. will be available upon request.

Handwritten: 4/29/76
13 PROCS

SIGNATURE [Signature] DATE 3 27 76
 TITLE SA MANAGER

(HA)

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 10/4/90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 2
2. Plant Eaaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #908797
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
4. Identification of System Primary Drains
5. (a) Applicable Construction Code Section III 19.71 Edition 9'73 Addenda ----- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 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)
2DAS-AOV100A	Masoneilan International	N-00168-59	----	38-20761	1977	Repaired	Yes
Skirt	Joslyn St. Steel	72659-5	----	-----	----	Replaced	No
Skirt	Masoneilan	90149-33	----	P/N 013534-094-174	----	Replacement	No

7. Description of Work Replaced valves plug assy. (Skirt and retainer)
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 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 [Signature] ENG-1 Date Oct 9 19 90
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 Sept 3, 90 to Oct 11, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date October 11, 19 90

SERIAL NO: N00168-59
 MARK NO: ZDAS-ADV100A
 TYPE:
 COMMENTS: -----

ZBV-651

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 Masonellian International, Inc., 63 Nahatan St., Norwood, MA 02062
(Name and Address of Manufacturer)
 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 Valve Nominal Inlet Size 2" Outlet Size 2"
(Inch) (Inch)

(a) Model No. Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Mark Bd. No.	(g) Year Built
(11) #38-20761	N-00168-59	N/A	A8888	2	N/A	1977
(12)						
(13)						
(14)						
(15)						
(16)						
(17)						
(18)						
(19)						
(20)						

5. P.O. # ZBV-651 Boerated Water Tag: ZDAS-ADV100A
(Brief description of service for which equipment was designed)

6. Design Conditions 75 psi 125 °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			
A526-2	ASME SA351 GR CPBM	QUAKER ALLOY	BODY
E1362-3	ASME SA351 GR CPBM	QUAKER ALLOY	BONNET
(b) Forgings			
N/A			

(1) For manually operated valves only.

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

FORM 1-V-1 (B&R)

Mark No	Material Spec. No	Manufacturer	Remarks
(c) Bolting 350874 Code S61	ASME SA193 GR B7	HASKELL MFG. CO.	STUDS
LS20976 Code S72	ASME SA194 GR 2H	HASKELL MFG. CO.	NUTS
(d) Other Part 72742-1	ASME SA479 TY 316	JOSLYN ST. ST.	SHANK
72659-	ASME SA479 TY 316	JOSLYN ST. ST.	SKIRT
NOBET-1 -2	ASME SA312 TP 316	COMBUSTION DIV.	NIPPLE (2)

B. Hydrostatic test 2150 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.

Adopts Summer 1973 Code Case No. N/A Date N/A

Signed Masonellan International, Inc. by *[Signature]* 12/19/77

Our ASME Certificate of Authorization No. N-100 to use the N symbol expires 8/19/80

(M) (M/F) (Date)

CERTIFICATION OF DESIGN

Design information on file at Masonellan International, Inc.

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

Design specifications certified by (1) Carl O. 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.

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 H.S.B.I. & I. CO.

of Hartford, CT have inspected the pump, or valve, described in this Data Report on 1-13 1978 and state that to the best of my knowledge and belief, the Manufacturer has constructed the 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 *[Signature]* 1-13 1978
Inspector

Commissions MA 946 Penn WC1087
(M) (B) (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 10-2-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 2
2. Plant Beaver Valley Power Station Unit No. 2
Name MWR #896082
Shippingport, PA 15077
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. 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, 71 Edition, W'72 Addenda, 1553-1, 1649 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)
2SIS-MOV865C	Westinghouse	W720006	W-17496	12GM88FNH	1979	Repaired	Yes
Disc	Cann & Saul Stl. Co.	359	----	HT No. 61336	---	Replaced	No
Disc	Westinghouse	C42818	----	HT No. 13454		Replacement	

7. Description of Work Replaced valves disc

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed M. White ENG 1 Date Oct. 23 19 90
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 Sept. 3 to Oct. 23, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 23, 1990

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Westinghouse Electro-Mechanical Division S/O-1H014
Cheswick Avenue, Cheswick, PA 15024 Order No. PG(N)88564-ARG
(Name & Address of Manufacturer)
2. Manufactured for Westinghouse Nuclear Equipment Division
Nuclear Center Box 355, Pittsburgh, PA 15230 Order No. 546CCJ-173659
(Name and Address)
3. Owner Duquesne Light Company
4. Location of Plant Duquesne Light - Beaver Valley 2
5. Pump or Valve Identification 12000GM88FNH01005W72006
Valve I.D. - 12GM88FNH Loc. No. 8808C
12" - 1500 Motor Operated Gate Valve
(Brief description of service for which equipment was designed)

- (a) Drawing No. 5059098 Prepared by Westinghouse Electric Corporation
 Ref. Dwg. TT5E079
- (b) National Board No. W17496
6. Design Conditions 2500 psi 650 °F
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III Class I
 Edition 1971, Addenda Date W72, Case No. 1553-1, 1649

Mark No.	Material Spec. No.	Manufacturer	Quantity
(a) Castings			
(b) Forgings			
Body	S/N 2450	SA182 GR F316	Cameron Iron Works
Flange	S/N 4835	SA182 GR F316	Womon-Gordon Co.
Disc	S/N 359	SA182 GR F316	Cann-Saw Steel Co.
Stem	S/N 2717	SA564 GR 630	Arc Mfg. Co.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) also to NP-1, (2) information in items 1, 2, 3, 4 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Part No.	Material Spec. No.	Manufacturer	Ht. No.	Pl. No.
(c) Bolting				
Main Flange Studs	SA453 GR 660	Plainville Mfg. Co		L36
Main Flange Bolts	SA453 GR 660	Valley Todeco		L37-11
(d) Other Parts				

8. Hydrostatic test 6425 psi.

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electro-Mechanical Division
 Stress analysis report on file at Westinghouse Electro-Mechanical Division
 Design specifications certified by Henry P. Leonard (I) Prof. Eng. State PA Reg. No. 28338-E
 Stress analysis report certified by Harry E. Eminger (I) P. of Eng. State PA Reg. No. 10729
 (I) Signatures not required. List name only.

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

Date 5-17 19 79 Signed Westinghouse Electric
Electro-Mechanical Div. n.y.
 (Manufacturer) *J. L. Schuman*

Certificate of Authorization No. 1385 expires June 25, 1979

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and in the State of Pennsylvania and employed by Lumbermens Mutual Casualty Co.
 of Lombard have inspected the equipment described in this Data Report on [REDACTED] and state that to the best of my knowledge and belief, the Manufacturer has conformed with the applicable Subsections of ASME Code, Section III.
 By signing this certificate, the Inspector or his employer makes no warranty, expressed or implied, concerning the equipment inspected. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any damage or a loss of any kind arising from or connected with this inspection.

Date MAY 17 1979

R. Miller Commission No. NR 4348 PA 1784
 (Inspector) (National Board, Boiler, Pressure and Vessels)

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 10-20-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 907363
Repair Organization P. O. No., Job No., etc.

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

4. Identification of System Main Steam

5. (a) Applicable Construction Code Section III-B 71 Edition S'72 A-Items 1672 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)
2MSS-20	Walworth Company	D-68242	1904	5350KE	1979	Repaired	Yes
Disc	Walworth Company	G-95P1	----	-----	----	Replaced	Yes
Disc	Walworth Company	B0810	----	HT#29441	----	Replacement	Yes

7. Description of Work Replaced valves disc.

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 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 particular inspection conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp per NGAM B.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG Date Nov. 1 19 90
 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 Sept. 3 to Nov. 1, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Commission NB8316 PA 2248
 Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 1, 1990

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

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

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

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

4. Pump or Valve Valve Nominal Inlet Size 3" 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. Std. No.	(g) Year Built
(1) 5J50 WE	D-68242	N/A	SK-1954-9G	2	1904	1979
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

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

6. Design Conditions Pressure PSI Temperature °F or Valve Pressure Class ANSI 600 (1)

7. Cold Working Pressure 1440 PSI at 100°F

8. Pressure Retaining Pieces

Parts No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body - 377E, P2	SA 216, WCB	Walworth Company	Seal Welded Seat
Cover - 359J, P3	SA 216, WCB	Walworth Company	
Disc - 5E1J, P2	SA 216, WCB	Walworth Company	CoCrA Faced Seat
(b) Forgings			
		Duquesne Light Company	
		Unit No. 2	
		Part No. 201-73, I.O. No. 12241	
		Walworth Company	Carbon Steel Valves - 2 1/2 In. and Larger Category
		Greensburg, PA 15601	

* 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 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			
Stud - 243874 (XH)	SA 193, B7	R. E. C. Corp.	
Nut - 527090 (QV)	SA 194, 2H	R. E. C. Corp.	
d) Other Parts			
Plug - B131	A105	Bonney Forge	
VALVE			
D08242			
SERIAL NO.			
E. Hydrostatic test <u>2175</u> psi. Dist. Differential test pressure <u>1500</u> psi.			

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that the pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1971 Advance June 30, 1972 Code Case No. 1672 Date 11-16-79

Signed Waiworth Company by R. Knopf
(A Certified Member)

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

CERTIFICATION OF DESIGN

Design information on file at Waiworth Company, Greensburg, Pa. 15601
 Stress analysis report (Class 1 only) on file at N/A

Design specifications certified by (1) C. O. Richardson, Jr. Duquesne Light Company
 PE State PA Reg. No. 016297E Beaver Valley Unit No. 2

Stress analysis certified by (1) N/A P. O. ... I.C. No. 1224
 PE State N/A Reg. No. N/A Carbon Steel Valves - 2 1/2 in. and La
Category

(1) Signature not required. List name only.

Waiworth Company
Greensburg, PA 15601

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler or Hartford, Conn. 06102 have inspected the pump, or valve, described in this Data Report on 11-16 's 79 and state that to the best of my knowledge and belief, the N Certificate holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 11-16 's 79
 Inspector: [Signature] Commission: N18375(N)PA 2261
Natl. 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 9-29-90
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 #905044
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Maintenance Dept. Type Code Symbol Stamp Not Applicable
Name
Shippingport, PA 15077
Address Authorization No. "
 Expiration Date "
4. Identification of System Emergency Generator - Air Start System
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 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)
2EGA-STRS 3	Meredith Corporation	-	-	Air supply HDR STRNR	-	Repaired	No
Bonnet	Colt Indust.	989603	-	"	1986	Replacement	Yes

7. Description of Work Strainer bonnet was 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 _____
 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 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENGR Date Dec. 10 19 90
 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 Sept. 3 to Nov. 22, 1990 and, to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in his Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA 2278
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 10, 1990

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 COLT IND - FM ENG DIV, Beloit, Wisconsin
(Name and address of Manufacturer of part)
- (b) Manufactured for Duquesne Light Co., 435 Sixth Ave., Pittsburgh, PA
(Name and address of Manufacturer of completed nuclear component)
2. Identification-Manufacturer's Serial No. of Part 989603 Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. 11872451 Rev. 5 Drawing Prepared by COLT IND - FM ENG DIV
- (b) Description of Part Inspected Bonnet Assembly, 2" Y-Type Strainer
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda date S'74 Case No. --- Class 3

3. Remarks: Bonnet Assembly will become part of Y-Strainer Assembly which will
(Brief description of service for which component was designed)
be installed into the Air Start System of a Diesel Generator Nuclear
Stand-by Unit for Duquesne Light Co., at the Beaver Valley Power Station,
Shippingsport Borough, by the Owner. Section III hydrostatic test was not performed

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

Date 7 November 1986 Signed COLT IND - FM ENG DIV By Michael S. Smith
(Manufacturer)

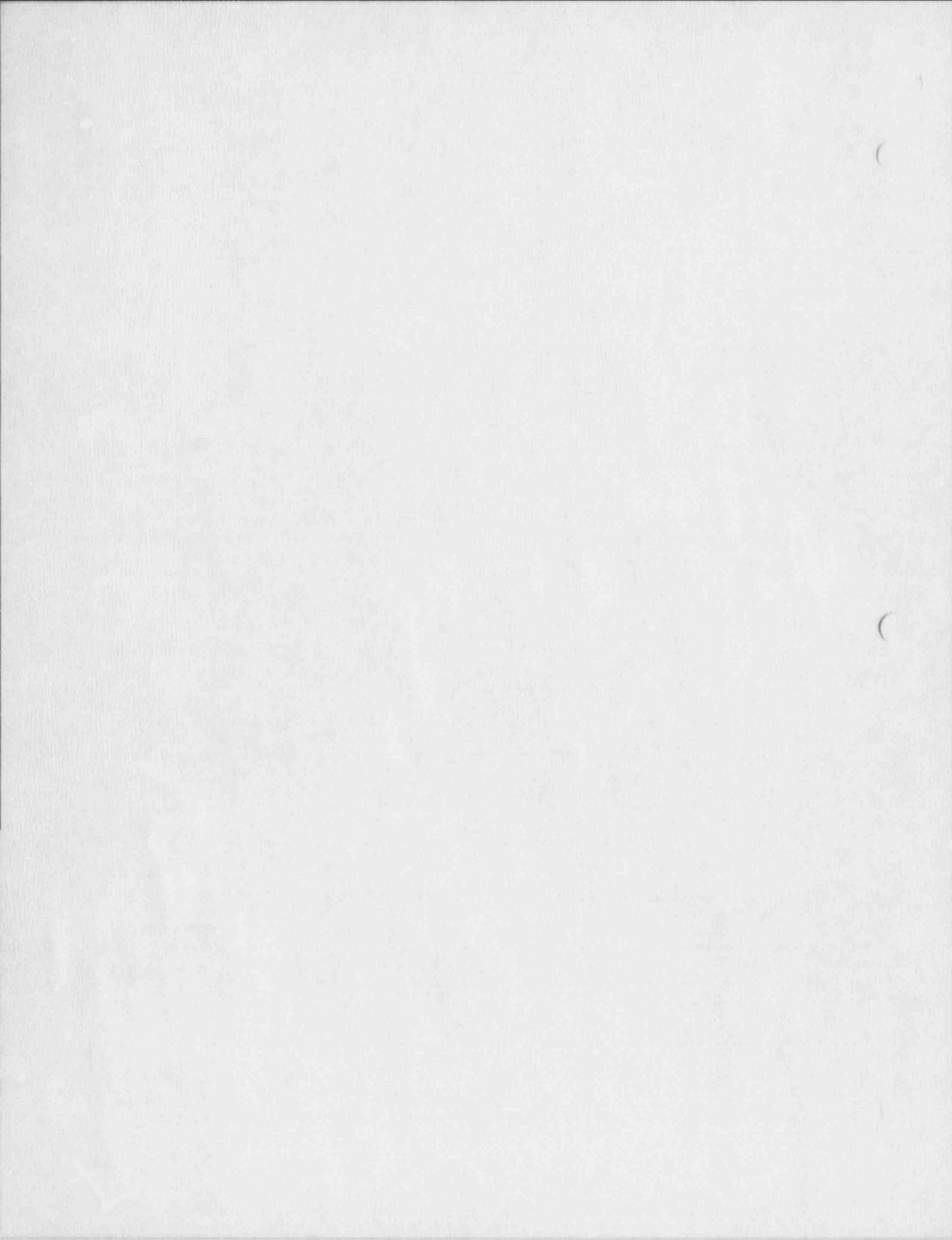
Certificate of Authorization Expires 9-16-88 Certificate of Authorization No. N2706

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)			
Design information on file at	<u>N/A</u>		
Stress analysis report on file at	<u>N/A</u>		
Design specifications certified by	<u>N/A</u>	Prof. Eng. State	Reg. No.
Stress analysis report certified by	<u>N/A</u>	Prof. Eng. State	Reg. No.

CERTIFICATE OF SHOP INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>Wisconsin</u> and employed by <u>H.S.B.I. & I. Co.</u> of <u>Hartford, CT</u> have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on <u>NOV 7</u> 19 <u>86</u> , and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.	
By signing this certificate, neither the inspector nor his employer make any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Date <u>NOV 7</u> 19 <u>86</u>	Commissions <u>WN. 200 PA 1062653</u> <small>National Board, State, Province and No.</small>
<u>John Becker</u> <small>Inspector's Signature</small>	

* 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 1-3 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

"Back of Form is Not Applicable"



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 10-20-90
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 #905043
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Emergency Generator - Air Start System

5. (a) Applicable Construction Code Section 111 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)
2EGA-STR1	Meredith Corporation	-	-	Air Supply HDR STR	-	Replaced	No
Bonnet	Colt Indust.	989478	-	"	1986	Replacement	Yes

7. Description of Work Strainer bonnet was 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 N-2 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 NGAM B.5 "ASME Section XI Repair/Replacement Program"

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

Signed Norman J. White Eng. I Date Nov. 27 19 90
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 9/27/90 to 11/27/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Michael R. Meind Commissions MB1741 PA1166
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27 19 90

FORM N-2 MANUFACTURING DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provisions of the ASME Code Rules

(a) Manufactured by COLT INC - FM ENG DIV, BELLEVILLE, WISCONSIN
 (b) Manufactured for DUQUESNE LIGHT CO., 435 SIXTH AVE., PITTSBURGH, PA
 (c) Manufacturer-Manufacturer's Serial No. of Part 909478 Part No. No. N/A
 (d) Constructed according to Drawing No. 11872451REV. 5 Drawing Prepared by COLT INC - FM ENG DIV
 (e) Description of Part Inasmuch Bonnet Assembly, 2" Y-TYPE STRAIGHT
 (f) Applicable ASME Code Section No. Edition 1974, Article No. 5.74, Case No. ... Class 3
 Reason: Bonnet Assembly will become part of Y-Strainer Assembly which will be installed into the Air Start System of a Diesel Generator Nuclear Stand-by Unit for Duquesne Light Co., at the Beaver Valley Power Station.
 Shipping/Marking Note: the Owner Section III hydrostatic test was not performed.

We certify that the information given in this report was correct and that we are not aware of any circumstances which would render the information so given untrue or misleading. We also certify that the design and construction of the part are in accordance with the ASME Code Rules. (The applicable Design Specifications and Section Report are the responsibility of the part manufacturer. An applicant for certification is responsible for providing a complete Design Specification and Section Report to the appropriate ASME body and to the user, under Design & Certification and Section Report.)

Date 9 November 19 9-16-80 Prepared by COLT INC - FM ENG DIV Signature [Signature]
 Certificate of Authorization No. N2706

CERTIFICATE OF DESIGN FOR APPURTENANCE (where applicable)

Design information on file is N/A
 Design analysis report on file is N/A
 Design specifications modified by N/A Part, Eng. Dept. ... Eng. No. ...
 Design analysis report modified by N/A Part, Eng. Dept. ... Eng. No. ...

CERTIFICATE OF SELF INSPECTION

I, the undersigned, holding a valid examination license by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of WISCONSIN and employed by K.S.B.I.S.I. Co. of MILWAUKEE, WI have inspected the part of a pressure vessel described in this manufacturer's Pressure Report on ... and after 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, neither the Inspector nor his employer assumes any liability, expressed or implied, concerning the part described in this manufacturer's Pressure Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage as a result of any kind arising from or connected with this inspection.

Date NOV 7 19 80
 Signature [Signature] Inspector ... National Board, State, Province and Co. ...

*Supplemental sheets for ASME Form N-2, Tables or drawings may be used provided they are to ASME Form N-2, and all information thereon is the same as that required to be included on this sheet, and the sheet shall be numbered and marked as shown in Rule 6, Section III.

Back of Form is Not Applicable

STONE & WEBSTER ENGINEERING CORPORATION
 BEAVER VALLEY POWER STATION - UNIT 2
 DUQUESNE LIGHT COMPANY
 L.O. 12341

SUPPLIER'S DOCUMENT DATA FORM

REVIEW & RETURN TO SUPPLIER REQUIRED (E11)
 FOR INFORMATION ONLY - NO REVIEW REQUIRED (E11)

SUPERSTORES & W FILE NO. (E11) (30-34) 30-30
 N/A

REMARKS (LIMIT TO 25 CHARACTERS & BLANKS) (E3-14)
 (EXCLUDE SPECIAL REQUIREMENTS)
 ASME III CLASS 3

S & W GROUP I.D. CODE (E11) (20-23) AREA DESIGNATION CODES (E11) (70-80)
 2EGL5HEGL2-11-2 N/A

SUPPLIER'S DOC. NO. (E11) (LIMIT TO 24 CHARACTERS & BLANKS) (37-50)
 (INCLUDE DOC. REV. OR DATE)
 93-083328

SUPPLIER'S NAME (E11) (LIMIT TO 30 CHARACTERS & BLANKS) (61-80)
 COLT INDUSTRIES

DATE RECEIVED (E11)	MONTH (E11)	DAY (E11)	PROB. NO. (E11)	DOC. TYPE (E11)	QTY (E11)	MAX. DATE IN REVIEW (E11)	QTY (E11)
11	11	26	616	A			01

FUNCTIONAL TITLE (E11) (LIMIT TO 40 CHARACTERS & BLANKS) (37-50)
 BONNET ASSEMBLIES & GASKETS

S & W FILE NO. (E11) (E3) (11-20) (21-30)
 217021190230085A

ORDER NO. (E11) (LIMIT TO 24 CHARACTERS & BLANKS) (37-50)
 12241 00

RESP. ENGR. (E11) DEPT./DIV. (E11)
 D. BRADFORD SEC (E11)

REVIEWER (E11) DEPT./DIV. (E11)
 C. CANNON ARE (E11)

DATE TO REVIEWER (E11) REQUIRED RETURN DATE (E11)
 2-18-97 2-18-97

REVIEW STATUS (R)
 APPROVED
 APPROVED AS REVISED
 UNACCEPTABLE

REVIEWER'S SIGNATURE (R) DATE
 Carl R. Bradford 2-18-97

RESPONSIBLE ENGINEER'S DATE STAMP (E3)
 FEB 19 1997

(E11) PROJECT CLERK (E3) REVISION (E3)
 (E11) RESPONSIBLE ENGINEER PRIOR TO REVIEW (E3) RESPONSIBLE ENGINEER AFTER REVIEW (E3)

REVISION NO. (E11) (LIMIT TO 24 CHARACTERS & BLANKS) (37-50)
 CYS 610 NA

TYPE CODE (E11) (LIMIT TO 24 CHARACTERS & BLANKS) (37-50) RESOURCE NO. (E11)
 A3.220 E9870219 0902

CONTROL LEVEL 2
 EAST TOWER

4 RA. BONNET ASSEMBLIES
 SIN 989477
 989478
 989479
 989480

PNV 11872451

RECEIVED

4 RA. GASKETS
 PNV 11872455

FEB 19 1997

STONE & WEBSTER CORP.

RTP A-6-14414
 JH A-6-13390
 12-2-94 12500

51597-426
 51504-1182
 1819
 51572-1819
 51509-1845



ATTACH TO DOCUMENT

89874-113

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 10-22-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 3

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #908768
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. 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, S'72 Addenda, 1672 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-1103	Walworth Co.	D63821	1193	5341 WE BB	1977	Repaired	Yes
Disc	Walworth Co.	B905P1	---	-----	1977	Replaced	Yes
Disc	Walworth Co.	B905P5	---	-----	1977	Replacement	Yes

7. Description of Work Replaced valve disc with one from valve S/N D63781, machined .005" from disc.

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENGR Date Oct. 23 19 90
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 Sept. 4 to Nov. 1, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 1 19 90

SERIAL NO: D63821
 MARK NO:
 TYPE:
 COMMENTS: -----

EBV-07:

PN31299-A4T

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

1. Manufactured by Walworth Co., GREENSBURG DIVISION, GREENSBURG, PA. 15601
Name and Address of Manufacturer

2. Manufactured for Duquesne Light Co.
Name and Address of Purchaser

3. Location of installation Beaver Valley Power Station, Shippingport, Beaver County, Pa.
Name and Address

4. Pump or Valve Valve Kind 4" Flange Size 3" Flange Size

(a) Model No. _____ (b) Manufacturers _____
 Series No. _____ Serial _____ Reg. _____ Drawing _____ Year _____
 or Type _____ No. _____ No. _____ No. _____
 (1) 5341 WE BB D63821 N/A SK-1952-18G 3 1193 1977
 (2) _____
 (3) _____
 (4) _____
 (5) _____
 (6) _____ Duquesne Light Company
Beaver Valley Unit No. 2
P. O. No. 2BV-73, J. O. No. 12241
 (7) _____ Carbon Steel Valves - 2 1/2 in. and Larger
 (8) _____ Category 1
 (9) _____
 (10) _____ 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 P1	SA-216, WCB	Walworth Co.	Seal Welded Seats
Cover F744 P2	SA-216, WCB	Walworth Co.	CoCr A Backseat
Disc B905 P1	SA-216, WCB	Walworth Co.	CoCr A Faced
(b) Forgings			

VALVE
 D63821
 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 on items 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 (E090) may be obtained from the Order Dept., ASME, 345 E 47 St., New York, N.Y. 10017

Mark No.	Material Spec. N.	Manufacturer	Remarks
(c) Bolting Stud U550 Code "BM"	SA-193, B7	Wm. H. Haskell Mfg. Co.	
Nut D078N Code "GR"	SA-194, 211	Wm. H. Haskell Mfg. Co.	
(d) Other Parts Plug 33728C Code "28"	SA-05, Gr. 2	Erie Fastener Co. 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 ps

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1971.

Addenda June 30, 1972 (Date) Code Case No. 1572 Date 5/17/77

Signed Walworth Co. (Manufacturer) By G. J. M. Hill (Inspector)

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

CERTIFICATION OF DESIGN

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

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

Design specifications certified by (1) C. O. Richard, 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

D63821

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 employing The Hartford Steam Boiler I&I Co. of Hartford, Conn. 06102 have inspected the pump or valve described in this Data Report on 5-17-77 and state that to the best of my knowledge and belief the Manufacturer has constructed this pump or valve in accordance with the ASME Code, Section III.

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

Date 5-17-77
E. Bender (Inspector)
Commissions NB4207N (Near-BD State Prov. and No.)

SERIAL NO: D63781

MARK NO:

TYPE:

COMMENTS:

2BV-073

PN31299-AAT

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 Size 4" Outer Size 4"

(1) Model No. or Type	(2) Manufacturer Serial No.	(3) Canadian Registration No.	(4) Drawing No.	(5) Class	(6) No. of Flgts	(7) Year Built
(1) 5341 WE BB	D63781	N/A	SK-1952-18 C	3	1154	1977
(8)	Duquesne Light Company					
(9)	Beaver Valley Unit No. 2					
(10)	P. O. No. 2BV-73, I.O. No. 12241					
(11)	Carbon Steel Valves - 2 1/2 in. and Larger					
(12)	Category I					
(13)	Walworth Company					
(14)	Greensburg, PA 15601					

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

6. Design Conditions Pressure PSI (Temperature °F or Valve Pressure Class ANSI 150)
 7. Cold Working Pressure 275 PSI at 100°F
 8. Pressure Retaining Parts

Mark No	Material Spec No	Manufacturer	Remarks
(1) Castings			
Dody B218 P6	SA-216, WCB	Walworth Co.	Seal Welded Seats
Cover F724 P3	SA-216, WCB	Walworth Co.	CoCr A Backseat
Disc B905 P3	SA-216, WCB	Walworth Co.	CoCr A Faced
(2) Forgings			

VALVE
D63781
SERIAL NO.

(1) For manually operated valves only

* Supplemental sheets in form of 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 repeated at top of this form.

(1/78)

Form NPV-1 (100037) may be obtained from the ASME, 345 E 47 St, New York, N.Y. 10017

Mark No	Material Spec No	Manufacturer	Remarks
(1) Bolt-ing Stud U550 Code "BM"	SA-193, 1	Wm. H. Haskell Mfg. Co.	
Nut D078N Code "CR"	SA-194, 2H	Wm. H. Haskell Mfg. Co.	
Nut 830482 Code "B3"	SA-194, 2H	Daniel Bolt Co.	
(2) Other Parts Plug 33728C Code "20"	SA-105, Gr. 2	Erie Fastener Co. Duquesne Light Company Beaver Valley Unit No. 2 P. O. No. 28V-73, I.O. No. 12241 Carbon Steel Valves - 2 1/2 In. and Larger Category I Walworth Company Greensburg, PA 15601	

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 Reactor Plant Components, Section II, Div. 1, Edition 1971

Addressed June 30, 1972 Code Case No. 1672 Date 8/17/77

Signed Walworth Co. by G. J. M. Hill 1/6/78
Manufacturer

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

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

063781

SERIAL NO.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co. at Hartford, Conn. 06102 have inspected the pump, or valve, described in the Data Report on 5-19-1977 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 II.

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.

Inspector: E. Seidler Date: 5-17-1977 Commission: NP4207N (1977 Ed. State 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 10-22-90
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 #908938, 909327, DCP-1275
Address Registration P.O. No., Job No., etc.

3. Work Performed by DLCO - Nuclear Construction 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, S'72 Addenda, See N-1 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)
2RCS-SG21C	Westinghouse Electric	DMGT-1963	W-16600	C-Steam Generator	1977	Repaired	Yes

7. Description of Work Repaired damaged bolt holes and replaced bolts - see back

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

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-1 form attached. per DCP 1275, all primary manway bolting has
been replaced with studs, nuts and spherical washers. Per MWR #909327, a
tapered washer was installed under #5 bolthole - hot leg manway. Per MWR #908938
helicoils were installed in cold leg manway bolt locations #3,#6,#9, and #14.

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 [Signature] ENG I Date Nov 27 19 90
 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 7/14/90 to 11/27/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 MB8441 PA1166
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27 19 90

Items below to be completed for all vessels, where applicable.

15. Safety Valve Outlets: Number PROVIDED BY OTHERS Size _____ Location _____

16. Nozzles:

Purpose (Inlet, outlet, drain)	Number	diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Primary Inlet	1	31.00"	Weld End	SA216 GrWC	1.5"	SA216 GrWC	Integrally
Primary Outlet	1	31.00"	Weld End	SA216 GrWC	1.5"	SA216 GrWC	Integrally
Steam Outlet	1	29.00"	Weld End	SA508 C12	1.5"	SA508 C12	Welded
Feedwater	1	14.00"	Weld End	SA508 C12	.840"	SA508 C12	Welded

17. Inspection Manholes: No. 4 Size 16 Location (2) Chamber & (2) Upper Shell
 Openings: Handholes: No. 2 Size 6 Location Stub Barrel portion of Lower Shell
 Threaded: No. 4 Size 2 Location Stub Barrel portion of Lower Shell

18. Supports: Skirt No (Yes or No) Lugs Trunnions (Number) Four (4) Legs ---- (Number) Other ----- (Describe) Attached Integrally (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. Lerry, NB2592, PA WC2231. The Certificate of Field Assembly Inspection is to document the field hydro's and subsequent MT examination.

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

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 86 signed Westinghouse Elec Corp. (N Certificate Holder)

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-F
 Stress analysis report certified by D. 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 Lumbermens Mut. Cas. Co. of Long Grove, IL
 have inspected the pressure vessel described in this Manufacturer's Data Report on 9-11- 19 86 and state that, to the best of my knowledge and belief, the N Certificate Holder 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 Certificate Holder'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, 19 86 PA WC 2231
W. Y. Jones Inspector's Signature W. Y. Jones Commission NB7245 N LA754
 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 Lumbermens Mut. Cas. Co. of Long Grove, IL
 have compared the statements in this Data Report with the described pressure vessel and state that parts referred to as data items 8C, 14C and 20, 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 Certificate Holder 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 1357 / 3107 psi.
 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, 19 86
W. Y. Jones Inspector's Signature W. Y. Jones Commission NB7245 N PAWC 2231
 National Board, State, Province and No.

FORM B-1 NCEI VESSEL HOLDER'S DATA REPORT FOR "CLEAR VESSELS"

As Required by the Provisions of the ASME Code Rules, Section III, Div. 1

Sheet 1 of

1. Manufactured by: Westinghouse Electric Corporation Nuclear Components Division
 (Name and address of Manufacturer)
Scenic Highway, House U.S. 90, Pensacola, FL 32518

2. Manufactured for: Duquesne Light Company - Beaver Valley #2, Shippingport, PA
 (Name and address of Purchaser)

3. Type: Vertical Kind: Steam Generator Vessel No.: DMGT-1963 CRN No.: N/A Nat'l. Id. No.: W-16600 yr. Built: 1977
 (Horizontal or vertical) (Tank, jacketed, heat ex.) (Ident. Serial No.) (1528 1355)

3a. Applicable ASME Code: Section III, Edition: 1971 Applicable date: 5 '72 Case No.: 1526 1493 Class: 1
 1464

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

4. Shell: Material: SA533 Gr A Cl 1 T.S. 80,000 Nom. Thk. 106 in. Corr. Allow. 0 in. Diam. 0 ft. 0 in. Length 0 ft. 0 in.

5. Seams: Long Weld Dbl Butt H.T.: Full R.T.: Full Efficiency: 100
 Circ Weld Dbl Butt 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, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diam.	Side to Pressure (convex or concave)
(a) <u>TOP</u>	<u>3.62</u>	<u>--</u>	<u>--</u>	<u>2:1</u>	<u>---</u>	<u>---</u>	<u>--</u>	<u>CONCAVE</u>
(b) _____	_____	_____	_____	_____	_____	_____	_____	_____

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

N/A 7. Jacket Closure: _____ (Describe or sketch & weld, bar, etc. if bar, give dimensions, spacing, or reach)

8. (a) Design Pressure: 1085 psi at 600 °F (b) Min. Pressure-Test Temp: 120 °F MINIMUM
 (c) Pneumatic, Hydrostatic, or Combination Test Pressure: 1367 psi 150 °F MAXIMUM

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary: Material: SA508 Cl 2 Diam. 125.75 in. Thk. 21.03 in. Attachment: Welded
 (Kind & Spec. No.) (Subject to pres.) (Welded, bolted)

Floating: Material: _____ Diam. _____ in. Thk. _____ in. Attachment: _____

10. Tubes: Material: SB-163 O.D. 0.875 in. Thk. 0.050 in. or less - per 9-146 Number 338 Type U
 (Kind & Spec. No.) Plugged (Straight or)

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

N/A 11. Shell: Material: _____ T.S. _____ Nom. Thk. _____ in. Corr. Allow. _____ in. Diam. _____ ft. _____ in. Length _____ ft. _____ in.

12. Seams: Long _____ H.T.: _____ R.T.: _____ Efficiency: _____
 (Welded, dbl., single) (Yes or no)

Circ Weld Dbl Butt H.T.: Full R.T.: Full No. of Courses: _____

13. Heads: (a) Material: SA-216 Gr WCC 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 Diam.	Side to Pressure (convex or concave)
(a) Top, bottom, ends	_____	_____	_____	_____	_____	_____	_____	_____
(b) Channel	<u>5.19</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>62.81</u>	<u>--</u>	<u>CONCAVE</u>
(c) Floating	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used: (a) _____ (b) _____ (c) _____ Other fastening: _____ (Describe or attach sketch)

14. (a) Design Pressure: 2485 psi at 650 °F (b) Min. Pressure-Test Temp: 120 °F MINIMUM
 (c) Pneumatic, Hydrostatic, or Combination Test Pressure: 3107 psi 250 °F MAXIMUM

11 If postweld heat-treated. 1 List other internal or external pressures with coincident temperatures when applicable.
 *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 14 of this Data Report is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded in item 19. Remarks

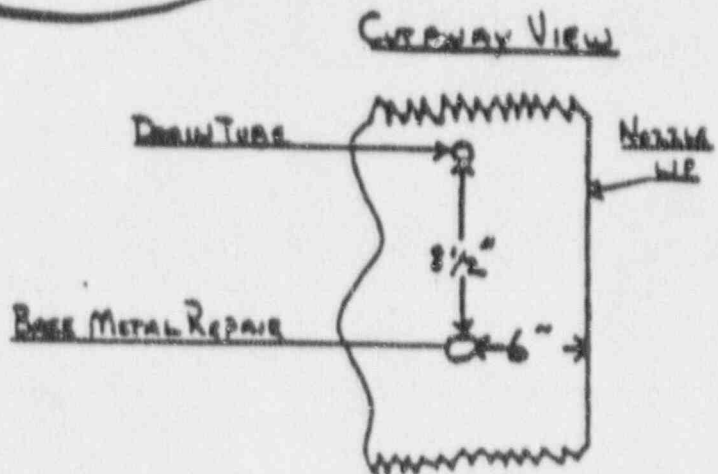
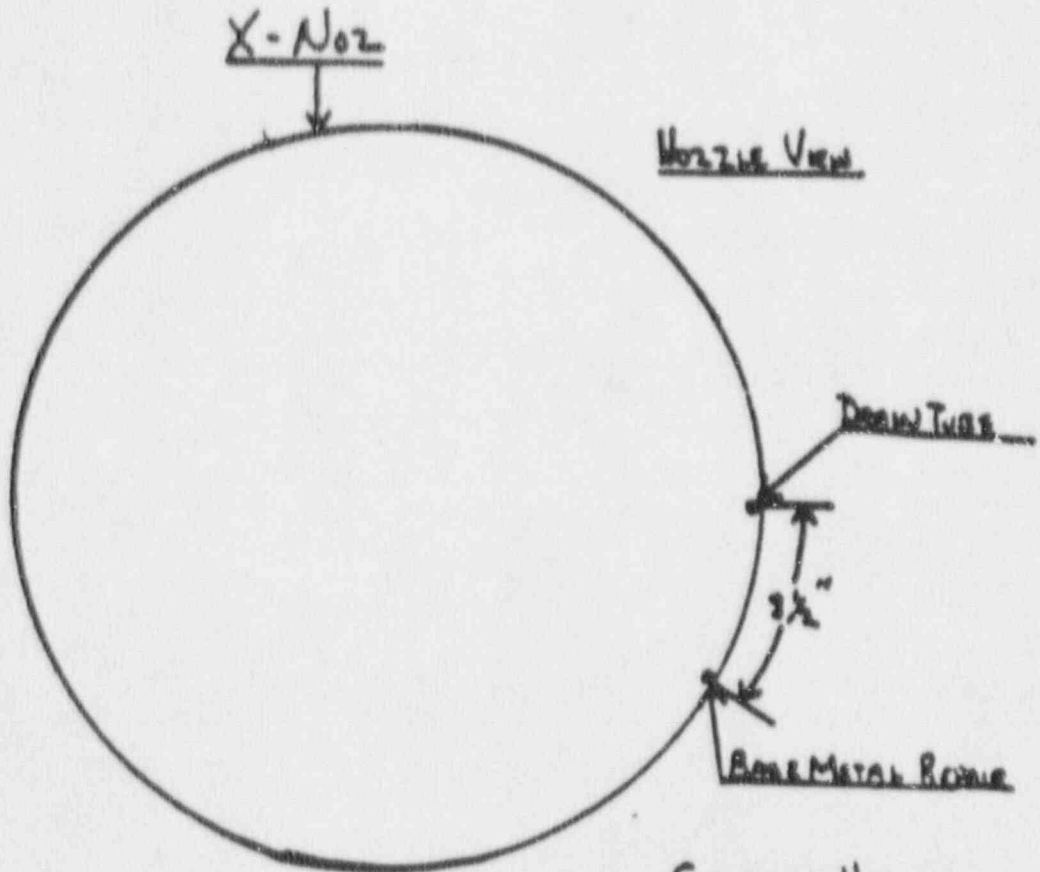
1. Manufactured by Westinghouse Electric Corporation, Nuclear Components Division
5000 N. Highway, Route U.S. 90, Pensacola, FL 32514
(Name and address of Manufacturer)

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

3. Type Vertical and Steam Generator Vessel No. DMGT-196 CRN No. N/A Nat'l. Id. No. W-16600 Yr. Built 1977
(Mark, or var.) (Type, class, heat ex.) (107% Serial No.) (1528 1355)

3a. Applicable ASME Code: Section III, Edition 1971 Addenda dated 5/72 Code No. 1526 1493 Class 1
1484

Bead Temper Repair NB4643:



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 10/11/90
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# 909302, CP-1275, MWR# 909804
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Nuclear Construction 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 1971 Edition S'72 Addenda See N-1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2RCS-SG21A	Westinghouse Electric	DMGT-1961	W-16598	A" Steam Generator	1977	Repaired	Yes

7. Description of Work Repalced bolts and plugged tube - see back

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

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 for attached. Per DCP 1275, all primary manway bolts were replaced
Applicable Manufacturer's Data Reports to be attached
with studs, nuts and spherical washers. Per MWR# 909302, the #1 handhole - #2,
#5 and #7 bolthole bolts were replaced, and helicoil inserted at #2 location.
Per MWR# 909804 plugged tube location R9C84.

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 [Signature] ENG Date January 24 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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Norwood, Massachusetts

have inspected the components described in this Owner's Report during the period Sept 3 to Nov 22, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

In issuing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date January 24, 1991

FORM 8-1 R CERTIFICATE MODELING DATA REPORT FOR NUCLEAR VEHICLE*

As Required by the Provisions of the Atomic Energy Act, 42 U.S.C. 2131

1. Manufactured by WESTINGHOUSE ELECTRIC CORPORATION, Westinghouse Electric Division
3000 N. HIGHWAY, PITTSBURGH, PA. 15222
(Name and address of Manufacturer)

2. Manufactured for Westinghouse Light Company - Beaver Valley #2, SHIRAZ, PA
(Name and address of Purchaser)

3. Type Var. 1001 Model SA533 R-A C11 Vessel No. DMT-1063 Cont. No. N/A Part No. W-16598 Date 1977
(Type, model, serial, etc.) (Name, address, etc.) (State, Serial No.)

3a. Application Added Code Section 4, Edition 1977 Addition date 3 '77 Cont. No. 1528 1355
(1528 1355)

Items 4-6 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

4. Shell Material SA533 R-A C11 T.S. 80,000 Min. Thk. 3/16 in. Cor. Allow. 106 in. Diam. 0 in. Length 0 in.

5. Seams Long Weld Rdl Butt H.T. Full R.T. Full Efficiency 100
 Circ Weld Rdl Butt H.T. Full R.T. Full No. of Courses 6

6. Header (a) Material SA533 R-A C11 T.S. 80,000 (b) Material T.S.

Location	Thickness	Corros. Radius	Knockout Radius	Elliptical Ratio	Central Apex Angle	Noncircular Radius	Flat Diam.	Stiff to Pressure
Top	1.62	--	--	2.1	---	---	--	Concave
Bottom								

If repetitive, both used: Material, Spec. No., T.S., Spec. Number Other None (Describe or attach sketch)

7. Jacket Closure None (Describe in case of weld, bar, etc. If bar, give dimensions, describe, or sketch)

8. (a) Design Pressure 1085 psia or 600 psig (b) Min. Pressure-Test Temp. 120 °F Min/Shell
 (c) Hydrostatic, Hydraulic, or Combination Test Pressure 1367 psia 190 °F Max/Shell

Items 9 and 10 to be completed for tube sections.

9. Tube Sheet Stationary: Material SA508 C12 Diam. 125.75 in. Thk. 21.03 in. Attachment Welded
(Name & Spec. No.) (Nominal or actual)

10. Tubes: Material SA-163 O.D. 0.75 in. Thk. 0.090 in. or gap None Number 1388 Type U
(Name & Spec. No.) (Nominal or actual) (Nominal or actual) (Nominal or actual) (Nominal or actual) (Nominal or actual)

Items 11 to 14 inclusive to be completed for corner sections of jacketed vessels or shells of heat exchangers.

11. Shell Material SA-316 T.S. 70,000 Min. Thk. 3/16 in. Cor. Allow. 106 in. Diam. 0 in. Length 0 in.

12. Seams Long Weld Rdl Butt H.T. Full R.T. Full Efficiency 100
 Circ Weld Rdl Butt H.T. Full R.T. Full No. of Courses 6

13. Header (a) Material SA-316 T.S. 70,000 (b) Material T.S.

Location	Thickness	Corros. Radius	Knockout Radius	Elliptical Ratio	Central Apex Angle	Noncircular Radius	Flat Diam.	Stiff to Pressure
Top, bottom, ends	5.19	---	---	---	---	62.81	--	Concave
End Channel								
End Flange								

If repetitive, both used: Material, Spec. No., T.S., Spec. Number Other None (Describe or attach sketch)

14. (a) Design Pressure 2485 psia or 650 psig (b) Min. Pressure-Test Temp. 120 °F Min/Shell
 (c) Hydrostatic, Hydraulic, or Combination Test Pressure 1107 psia 250 °F Max/Shell

*If additional non-destructive, or other internal or external inspection with additional temperature when applicable.
 *Subsequent stress in form of weld, knockout, or drawings may be used provided (1) they are in accordance with ASME Section II, Part D, and (2) they are in accordance with ASME Section VIII, Division 1.
 If this form is used on such shells and (3) each sheet is numbered and the number of sheets is recorded in item 16, Remarks.

Items below to be completed for all vessels which shall be

PROVIDED BY OTHERS

15. Safety Valve, Model No. _____ Number _____ Size _____ Location _____

16. Materials

Particulars, section, detail	Number	Size, or Size	Type	Material	Thickness	Manufacturing Method	How Attached
Primary Inlet	1	11.00"	Weld End	SA216 Gr5C	1.5"	SA216 Gr5C	Integrally C
Primary Outlet	2	11.00"	Weld End	SA216 Gr5C	1.5"	SA216 Gr5C	Integrally C
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
 Drainage Manholes No. 2 Size 6 Location Stub Barrel portion of Lower Shell
 Viewports No. 2 Size 2 Location Stub Barrel portion of Lower Shell

18. Supports Bolt No. Four (4) Size 1/2" Dia. Location _____
 (Type or size) (Number) (Number) (Number) Attached Integrally Cast
 (Material) (Material) (Material) (Material)

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. Lacey, NB2592, PA WC2281. The Certificate of Field Assembly Inspection is to document the field hydro's and subsequent MT examination.

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

20. Application of ASME nanoplate.

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

Date Aug 6, 1986 At _____ Signed Westinghouse Elec Corp.
 Certificate of Authorization Expires March 11, 1989 Certificate of Authorization No. N-4660

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corporation, NER, Pensacola, FL
 Stress analysis report on file at Westinghouse Electric Corporation, NER, Pensacola, FL
 Design qualifications certified by B. J. SIVITER Prof. Eng. State PA Reg. No. 15441-E
 Stress analysis report certified by B. J. SIVITER Prof. Eng. State FL Reg. No. 11085

CERTIFICATE OF SHOP INSPECTION

Vessel made by Westinghouse Electric Corporation at Pensacola, FL
 I, the undersigned, holding a valid authorization issued by the National Board of Boiler and Pressure Vessel Inspection and the State or Province of PA and employed by Westinghouse Elec. Corp. at Long Grove, IL have examined the drawings in the Manufacturer's Data Report on Shell and vouch that, to the best of my knowledge and belief, the N Certificate Holder has constructed the 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 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 Aug 11, 1986 Commissioner NB 2245 N LA 754
V. Y. Jones PA WC 2281

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid authorization issued by the National Board of Boiler and Pressure Vessel Inspection and the State or Province of PA and employed by Westinghouse Elec. Corp. at Long Grove, IL have examined the drawings in the Data Report with the described pressure vessel and vouch that parts referred to in this report were 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 Certificate Holder has constructed and assembled the pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test under pressure at NER, Pensacola, FL.
 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 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 Aug 11, 1986 Commissioner NB 2245 N PA WC 2281
V. Y. Jones

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 10-22-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address Sheet 1 of 2
2. Plant Beaver Valley Power Station Unit No. ?
Name
Shippingport, PA 15077
Address MWR #908679
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. Type Code Symbol Stamp Not Applicable
Name Authorization No. _____
Shippingport, PA 15077 Expiration Date _____
Address
4. Identification of System Auxilliary Feedwater
5. (a) Applicable Construction Code Section 111.19.71 Edition, S'72 Addenda, 1672 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)
2FWE-101	Walworth Company	D71002	2097	5350 WE HF	1980	Repaired	Yes
Plug	Bonney Forge	BG38	-	-	1980	Replaced	No
Plug	Crane-Aloyco	-	-	HT #JHK	-	Replacement	No

7. Description of Work Replaced one body plug and machined valve disc

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 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.

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] ENG I Date Nov 27 19 90
 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 11/24/90 to 11/27/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this 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 Systems

[Signature] Commissions WB 8441 PA 2166
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27 19 90

SERIAL NO: D71002

MARK NO:

TYPE:

COMMENTS:

2BV-073

FORM NPV-1 IN CERTIFICATE HOLDERS' DATA REPORT FOR MUC, 1/4 IN. (1/2 IN.) OR VALVES*

As Required by the Provisions of the ASME Code, Section I, Div. 1, PV11.10-0.1A

1. Manufactured by Wetworth Company, Denver, Colorado, CO 80202

2. Manufactured for Denver Light, Gas and Heat Company, Denver, CO

3. Location of Installation Denver Valley, Denver Station, Colorado

4. Pump or Valve Valve Nominal Inlet Size 6 Outlet Size 2

(a) Model No. or Series No. or Type	(b) Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Next Ed. No.	(g) Year Built
5350 WE WF	D71002	N/A	SK1954-90	2	2097	1980
VALVE						
071002						
SERIAL NO.						

Oil, Steam, Water

(Brief description of service for which equipment was designed)

5. Design Conditions Pressure 2W (Temperature) 7 or Valve Pressure Class ANSI 500

6. Cold Working Pressure 1460 psi at 100°F

7. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body - 392M, P3	SA 216, WCB	Wetworth Co.	Seal Welded Splat
Cover - 376K, P8	SA 216, WCB	Wetworth Co.	
Misc - M97J, P1	SA 216, WCB	Wetworth Co.	CoCrA Faced Splat

(b) Forgings

Denver Light Company
 Denver Valley Unit No. 2
 P.O. No. 28V-73, I.O. No. 12241
 Carbon Steel Valves - 2 1/2 in. and Larger
 Category I
 Wetworth Company -
 Greenwood, PA 15601

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

Mark No. _____
 (1) Parting _____
 Stud - 5110 (1-1)
 Nut - B9154 (JAK)
 SA 105H
 Binney Forge
 VALVE
 D71002
 SERIAL NO.

ASME SECTION VIII, DIV. 1, 2001
 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.
 Signed Walworth Company Date 11-14-80
 R. Knopf
 ASME Certificate of Authorization No. 1951 to use the symbol expires 12/9/80

Certification of Design
 Design information on file at Walworth Company, Greensburg, PA 15601
 Stress analysis report (Class I only) on file at N/A
 Design specifications certified by F. A. Gopalani Duquesne Light Company
 PE State PA Reg. No. 21066-L-2 Beaumont Valley Unit No. 2
 Stress analysis certificate N/A P.O. No. 25V-73.1 O-Ma-12241
 PE State PA Carbon Steel Valves - 2 1/2 in. and Larger
Category I
 Walworth Company
 Greensburg, PA 15601

Certificate of Inspection
 Inspected by [Signature] Date 11-14-80
 Inspected at [Location]
 Date 11-14-80
 No. 16314N PA 2052

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 10-24-90
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# 899659
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DlCo - Maintenance Dept. 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 Section III, 1977 Edition, S'77 Addenda, 1539 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 83E-S'93A

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-277	Kerotest Corp.	FAH-9-2	-----	SW-D-9910-(2)	1981	Repaired	Yes
Disc	Carpenter Steel	JAS	-----	-----	-----	Replaced	Yes
Disc	Kerotest	AKC5-2	-----	-----	-----	Replacement	Yes

7. Description of Work Replaced valves disc.

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 _____.

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENSI Date Oct 30 19 90
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 Sept. 4 to Nov 1 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8-316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 1 19 90

ASME Code Section I

1. Manufactured by Kerotek Manufacturing Corp., Pittsburgh, PA 15222 Item 14
(Name and Address of N Certificate Holder)

2. Manufactured for Stone & Webster Engineering (AGENT) P.O. Box 2125, Boston, MASSACHUSETTS 02111
(Name and Address of Purchaser or Owner)

3. Location of Installation Beaver Valley Power Station, Unit 2, Stillpoint, PA
(Name and Address)

4. Pump or Valve valve Nominal Inlet Size 2 (inch) Outlet Size 2 (inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) No.	(g) Year Built
(1) GLOBE	FAM9-2	N/A	SW-D-9910-(2)	2	N/A	1981
(2) GLOBE	FAM9-3	N/A	SW-D-9910-(2)	2	N/A	1981
(3) GLOBE	FAM9-4	N/A	SW-D-9910-(2)	2	N/A	1981
(4) GLOBE	FAM9-13	N/A	SW-D-9910-(2)	2	N/A	1981
(5) GLOBE	FAM9-23	N/A	SW-D-9910-(2)	2	N/A	1981
(6)						
(7)						
(8)						
(9)						
(10)						

5. Piping Systems (Radioactive Fluids)
(Brief description of service for which equipment was designed)

6. Design Conditions 2580 psi 650 °F or Valve Pressure Class 1500# (1)
(Pressure) (Temperature)

7. Cold Working Pressure 3500 psi at 100°F.

8. Pressure Retaining Pieces

16591

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			DRAWING REV. -
(b) Forgings			
BODY-FAM	SA105	Exlicott Forging	
YOKE-ACAP	SA105	McWilliams Forge	

(1) For manually operated valves only

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

Mark No.	Material Spec. No.	Manufacturer
(c) Bolting		
DUQUESNE LIGHT CO. BEAVER VALLEY POWER STATION - UNIT #2 P.O. # 28V-83, (I.O. No. 12241) HERMETICALLY SEALED GLOBE VALVES, CATEGORY I		
(d) Other Parts		
DISC-JAS	SA479, TYPE 316	Carpenter
BONNET-DAS	SA479, TYPE 316	Carpenter

B. Hydrostatic test 5400 psi. Disk Differential test pressure 3600 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 SUBMITTER 1977, Code Case No. 1539, Date 7-25-81

Signed Kerotest Manufacturing Corp. by [Signature]
(or Certificate Holder)

Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 4-25-83.
(Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp., Pittsburgh, PA

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

Design specifications certified by (1) Faruk A. Gopalani

PE State PA Reg. No. 21966-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 Pennsylvania and employed by ISEI I&I COMPANY of WATFORD, CONNECTICUT have inspected the pump, or valve, described in this Data Report on 3/25/81 19 , 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 3/25/81 19
[Signature]
(Inspector)

Commissions [Signature]
(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 10-20-90
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# 909822
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. 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 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)
2FWS-28	Atwood-Morrill Co.	7-13540	-----	16" Check Valve	1979	Repaired	Yes
Studs	Cardinal Industrial	Heat Code E1	-----	Heat No. 886 9139	----	Replacemr	No
Nut	Cardinal Industrial	Heat Code B2	-----	Heat No. KB4290	----	Replacemr	No

7. Description of Work Valves disc machine .004" and all body to cover bolting 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 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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG I Date Nov 28 19 90
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 7/9/90 to 11/19/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NO 8741 PA 2266
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/29/90

SERIAL NO: 7-13540
 MARK NO:
 TYPE:
 COMMENTS:

2BV-02

As Required by the Provisions of the ASME Code, Part III, Div. 1

1. Manufactured by Atwood & Merrill Co., Inc. Salem, MA 01970
(Name and Address of Manufacturer)
 2. Manufactured for Stone & Webster
(Name and Address of Purchaser or Owner)
 3. Location of installation Beaver Valley Power Station Shipping Port, PA
(Name and Address)
 4. Pump or Valve Valve

(a) Model No. 16" Check Valve (b) ASME Certificate Holder's Serial No. 7-13540 (c) Canadian Registration No. N/A (d) Drawing No. 13540-03-F Rev. 4 (e) Class 2 (f) Nat'l BC No. N/A (g) Year Built 1979
Nominal Inlet Size 16 Inch Outer Size 16 Inch

5. 16" Check Valve Deep Water
(Brief description of service for which equipment was designed)

6. Design Conditions 1170 psi 450 °F or Valve Pressure Class N/A
(Pressure) (Temperature)
 7. Cold Working Pressure 1830 psi at 120°F
 8. Pressure Retaining Pieces (1)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	Ht. # F3896 Rt. # S1580	SA 216, Gr. WCB Quaker Alloy	S/N 7-13540
Disc	Ht. # F3987 Rt. # S1317	SA 216, Gr. WCB Quaker Alloy	S/N 7-13540
Brg. Cover	Ht. # E8765 Rt. # S1356	SA 216, Gr. WCB Quaker Alloy	S/N 7-13540
Brg. Cover	Ht. # E8765 Rt. # S1308	SA 216, Gr. WCB Quaker Alloy	S/N 8-13540
(b) Forgings			

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

FORM BPV-1 (Rev. 11-77)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cover Bolting			
Studs	SA 193, Gr. B7	Jos. Dyson & Sons	C89
Nuts	SA 194, Gr. 2H	Jos. Dyson & Sons	C11
Bearing Cover Bolting			
Studs	SA 193, Gr. B7	Jos. Dyson & Sons	297
Nuts	SA 194, Gr. 2H	Jos. Dyson & Sons	801
(d) Other Parts			
Cover	A 515, Gr. 70	U.S. Steel Corp.	S/M 7-135A0
HR. # 65C744			

B. Hydraulic test 2175 psi. Dist. 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

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

Signed Atwood & Morrill Co., Inc. by Walter Johnson 2 Feb 79
(If Certificate holder) Quality Control Manager

Our ASME Certificate of Authorization No. N-1766 to use the N symbol expires 5-20-80
(N) Serial

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster Engineering Corp.

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

Design specifications certified by (1) Faruk A. Goppiant
 PE State Pennsylvania Reg. No. 21064E

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 Jurisdiction of Massachusetts and employed by M.S.B.L. & I. Co. of Hartford, CT have inspected the pump or valve described in this Data Report on Feb 23rd 19 79 and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump or valve in accordance with the ASME Code, Section III.

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

Date Feb 23rd 19 79
4 R
(Inspector) Commissions Mos 1196 PA W6 2580
(Not) Bd. State, Prov. and No. 1

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} ~~Modification~~ 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 Dr. Smith Date 12/4/90 1990
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 Sept. 3 to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

G. Mucke Commissions NB 8316 PA 2278
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 7, 1990

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 Center, Pgh. PA 15279
Address

Date November 9, 1990
 Sheet 4 of 4

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

Unit No. 2
DCP 1502 (Partial)
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCO (NCD)
Name
Address

Type Code Symbol Stamp N/A
 Authorization No. N/A
 Expiration Date N/A

4. Identification of System Service Water

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)
Pipe 2-SWS-150-B18-3	N/A	N/A	N/A	Pipe	N/A	Replacement	No

7. Description of Work Replace one inch carbon lines with 1 1/2 inch stainless.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 165 psi Test Temp. Ambiant °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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company Date November 9, 1990
Name
One Oxford Center, Pgh. PA 15279 Sheet 3 of 4
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 DCP 1502 (Partial)
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DICO (NCD) Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Service Water
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 is 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)
Pipe 2-SWS-003-180-3	N/A	N/A	N/A	Pipe	N/A	Partial Replacement	No
Pipe 2-SWS-003-183-3	N/A	N/A	N/A	Pipe	N/A	Partial Replacement	No
Pipe 2-SWS-001-799-3	N/A	N/A	N/A	Pipe	N/A	Partial Replacement	No
Pipe 2-SWS-001-800-3	N/A	N/A	N/A	Pipe	N/A	Partial Replacement	No
Pipe 2-SWS-150-B16-3	N/A	N/A	N/A	Pipe	N/A	Replacement	No

7. Description of Work Replace one inch carbon lines with 1 1/2 inch stainless.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 165 psi Test Temp. Ambiant °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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company Date November 9, 1990
Name
One Oxford Center, Pgh, PA 15279
Address Sheet 2 of 4
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address DCP 1502 (Partial)
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCO (NCD) Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Service Water
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.	Optional Gov't No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
^{Pipe} 2-SWS-003-182-3	N/A	N/A	N/A	Pipe	N/A	Partial Replacement	No
^{Pipe} 2-SWS-001-797-3	N/A	N/A	N/A	Pipe	N/A	Partial Replacement	No
^{Pipe} 2-SWS-001-798-3	N/A	N/A	N/A	Pipe	N/A	Partial Replacement	No
^{Pipe} 2-SWS-150-B15-3	N/A	N/A	N/A	Pipe	N/A	Replacement	No
^{Pipe} 2-SWS-150-B17-3	N/A	N/A	N/A	Pipe	N/A	Replacement	No

7. Description of Work Replace one inch carbon lines with 1 1/2 inch stainless.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 165 psi Test Temp Ambiant °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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company Date November 9, 1990
Name
One Oxford Center, Pgh. PA 15279
Address
 Sheet 1 of 4
 2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address
 DCP 1502 (Partial)
Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DLCO (NCD) Type Code Symbol Stamp N/A
Name Authorization No. N/A
Address Expiration Date N/A
 4. Identification of System Service Water
 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)
Valve 2SWS*1056	Contromatics	84038- 7-2	N/A	VBS-015-Y-3	76	Replacement	Yes
Valve 2SWS*1057	Contromatics	85332- 34-1	N/A	VBS-015-Y-3	85	Replacement	Yes
Valve 2SWS*1058	Contromatics	86330- 5-1	N/A	VBS-015-Y-3	81	Replacement	Yes
Valve 2SWS*1059	Contromatics	84038- 7-1	N/A	VBS-015-Y-3	76	Replacement	Yes
Pipe 2-SWS-003-181-3	N/A	N/A	N/A	Pipe	N/A	Partial Replacement	No

7. Description of Work Replace one inch carbon lines with 1 1/2 inch stainless.
 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 165 psi Test Temp. Ambiant °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

Modification has been made by Duquesne Light Co.

CERTIFICATE OF COMPLIANCE Replacement

We certify that the statements made in the report are correct and this Modification 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 November 5, 1990
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 Orkwright Mutual Ins. Co. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period Sept. 4, to Nov. 12, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 12, 1990

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 29, 1990
Name
One Oxford Centre, Pgh. PA 15279 Sheet 1 of 1
Address
2. Plant Beaver Valley Power Station Unit BVPS Unit 2
Name
Shippingport, PA 15077 DCP 1356
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Duquesne Light Co. Type Code Symbol Stamp N/A
Name Authorization No. N/A
Shippingport, PA 15077 Expiration Date N/A
Address
4. Identification of System Chemical And Volume Control
5. (a) Applicable Construction Code ASME Section 19 71 Edition, Winter '72 Addenda, 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)
Pipeline	N/A	N/A	N/A	2CHS-003-276-2	N/A	Replacement No (Modification)	
Pipeline	N/A	N/A	N/A	2CHS-003-279-2	N/A	Replacement No (Modification)	

7. Description of Work 1" vent lines added to the 3" miniflow lines of charging pumps
2CHS*P21A and 2CHS*P21C
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 2735 psi Test Temp. Ambiant °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 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] ENG. L. Date January 29 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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts

have inspected the components described in this Owner's Report during the period Sept. 3 to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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-8316 PA 2248
 Inspector's Signature National Board, State, Province, and Endorsements

Date January 29, 1991

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 1/16/91
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 #908881
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Nuclear Construction 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, 1971 Edition, W'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)
2SWS-PSR073C	Stone and Webster	--	--	DWG No. 730 075-047-C04	1986	Repaired	No

7. Description of Work Cut-out support for hydrolasing and welded back in
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/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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENCL Date Jan 21, 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 Pennsylvania and employed by Arkwright Mutual Insurance Co.* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period Sept 3 to Nov 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA. 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date January 21, 1991

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 1/16/91
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR #908878
Repair Organization P.O. No., Job No., etc
3. Work Performed by DLCo - Nuclear Construction 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, 71 Edition, W'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)
2SWS-PSR074C	Stone and Webster	--	--	DWG No. 730 075-047-C05	1985	Repaired	No

7. Description of Work: Cut-out support for hydrolasing and rewelded back in

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 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.

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] ENGR Date JAN 21 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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period Sept 3, to Nov 22 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB8316 PA 2278
Inspector's Signature National Board, State, Province, and Endorsements

Date January 21, 1991

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 1/16/91
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 #908879
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Nuclear Construction 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'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)
2SWS-PSR075C	Stone and Webster	--	--	DWG No. 730075-047- C06	1986	repaired	No

7. Description of Work Cut-out pipe support to allow hydrolasing, rewelded back in
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 NPV-1 (BACK)

MARK NO.	MATERIAL SPEC. NO.	MANUFACTURER	REMARKS
(c) BOLTING			
DC-50	SA193, Gr. K7	Texas Bolt Co.	Studs
N-92047	SA194, Gr. 2K	Texas Bolt Co.	Nuts
(d) OTHER PARTS			
832991	ASTM A-276, Gr. 410	Carpenter Technology	Seat
G-9502	ASTM A-276, Gr. 410	Universal Cylaps	Valve
*See Below			
SEAT TESTED @ 1500 PSIG			
STUDD TESTED @ 2175 PSIG			

Design Pressure: 1651 PSI

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS PUMP OR VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS SECTION III, DIV. 1, EDITION 1971

ADDENDA Summer 1973 CODE CASE NO. N/A DATE 7-17-78

SIGNED Drewyer I.V.I.D. BY [Signature]
(A CERTIFICATE HOLDER) Principal Quality Assurance Engineer

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1746 TO USE THE N SYMBOL EXPIRES 5/20/80
(DATE)

CERTIFICATION OF DESIGN

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

STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT _____

DESIGN SPECIFICATIONS CERTIFIED BY (1) Varuk A. Gopalsai
BY STATE Pennsylvania REG. NO. 21966-z

ANALYSIS CERTIFIED BY (1) _____
BY 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 HARRISON STEEL CO. OF HARRISON, TEXAS HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 7-19 IS 78 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 7-19 19 78
[Signature]
(INSPECTOR)

La. 672
COMMISSIONS Pennsylvania WC 2458
/NATI ON STATE, PROV AND NO

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG I Date January 23 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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period Sept. 3 to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA 2275
Inspector's Signature National Board, State, Province, and Endorsements

Date January 24, 1991

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 12/31/90
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 NWP# 909648
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance 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 71 Edition, S'73 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-29	Dresser Valve	H907AAD	---	3NC009	1978	Repaired	yes
Disc	Universal cyclops	G-9502	---	---	--	Removed	yes

7. Description of Work Removed valve internals

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.

PENNS COPY-1 Sheet

Mark No.	Mechanical Equip. No.	Manufacturer	Remarks
(a) Existing Case Scribe B7	SA 192 T, B7	TEXAS BOLT	
(b) Other Party DL-4 ESB	A 474 T, 410 (Chemistry Only)	Vogt	

S. Hydrostatic test **2225** psi. Dis. Differential test pressure **1630** psi.

11620

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that the pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition **1977**.

Fabricated **February '79** Code Case No. _____
 Signed **Henry Vogt Machine Co.** by **[Signature]** **August 17, 1983**
 in Certificate Number _____
 Certificate of Authorization No. **947** in use the _____ serial number **1/6/86**

CERTIFICATION OF DESIGN

Design incorporated on file at **Henry Vogt Machine Co.**
 Stress analysis report (Class 1 only) on file at _____
 Design specifications verified by (1) **Stephen A. Shuban**
 PE State **PA** Reg. No. **PE-30264-E**
 Stress analysis certified by (1) _____
 PE State _____ Reg. No. _____
 (1) Signature not required. Last name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of **Pennsylvania** and employed by **Commercial Dairies Ins. Co.** at **BOB CO., PA** have inspected the pump, or valve, described in this Data Report on **August 3, 1983** and state that to the best of my knowledge and belief, the R Certificate-Ready item conforms to the ASME Code, Section III.

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

Date **August 3, 1983**
[Signature] Inspector
[Signature] Commissioner
 Pennsylvania #1676
 No. 11, 1st Floor, Harrisburg

SERIAL NO: 3-214953
 MARK NO: 2SWS-96
 TYPE: VCS060-AZ-3
 COMMENTS: _____
 2BV-064F

Inspected 12/13/78 Page 1 of 2

FORM NPV-1 IN CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES
 As Required by the Provisions of the ASME Code, Edition II, Div. 1

1. Manufactured by Vogt Valve Machine Co., Lindsville, KY
 Design and Address of N. Code Register 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, Shippingport, PA
 Name and Address
 4. Pump or Valve Check Valve Nominal Seat Size 1" Outlet Size 1"
 End Flange Outlet Flange

ASME No. or Type	ASME No.	ASME No.	ASME No.	ASME No.	ASME No.	ASME No.
(1) Check	1-214950		E-48519	J		1973
(2)	12-214950					
(3)	(See Attached Worksheet)					
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5.
 Detail description of service for which equipment was designed
 6. Design Conditions Pressure 1250 psi Temperature 600 F or Valve Pressure Class 600 (1)
 7. Cold Working Pressure ASME sec II 10000
 8. Pressure Retaining Flanges

ASME No.	National Spec. No.	Manufacturer	Remarks
AS Castings			
		DUQUESNE LIGHT CO STONE & WEBSTER Bldg BEAVER VALLEY UNIT 2	RECEIVED NOV 17 1982 BEAVER VALLEY CAPABILITY CORPORATION Statistical Section
	1.0-1204 PD NO	2BV-64A	
	MARK NO	VCS060-AZ-3	
	MANUFACTURER'S NAME	VOGT MACHINE CO.	
AS Forgings			
Body			
K377LA	SA-105	Vogt	
AS Bolts:			
K377S	SA-105	Vogt	
K387LA	SA-105	Vogt	

(1) For manually operated valves only
 * Supplemental stress or layer of hole, stretch or drawings may be used provided (1) size is 8-18" x 11". (2) information is shown 1, 2 and 3 on this Data Report is included on each sheet, and (3) each sheet is numbered and quantity of sheets is reported at 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

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 [Signature] ENGR Date January 24 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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period Sept. 3, to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examination and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 1138316 PA 2278
Inspector's Signature National Board, State, Province, and Endorsements

Date January 24, 1991

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 12/31/90
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# 907377
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCO - Maintenance Dept. 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 77 Edition S'79 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-96	Henry Vogt Machine	3-214959	---	E-48319	1983	Repaired	Yes
Disc	Vogt	ESM	---	---	--	Removed	Yes

7. Description of Work Removed valve internals
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 80V-1 (Rev. 6-63)

Mark No.	Material Data No.	Manufacturer	Remarks
41 Bolting C&B SCREW 87	SA 193 Gr. 87	Yongling Bolt	
42 Other Parts DL66 ESM	EA 478 F.410 (Chemistry Only)	Vogt	

5. Hydrostatic test 2225 psi. Dist. Differential test pressure 1630 psi.

1620

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that no part or value exceeds the rules of construction of the ASME Code for Nuclear Power Plant Components, Section II, Div. 1, Edition 1977.

Address: ESSEX '79 Code Case No. _____
 Signed: Henry Vogt Machine Co. by [Signature] August 11, 1983
 Our ASME Certificate of Authorization No. 947 to use the Z symbol expires 1/6/84
in Certificate Report
Dist.

CERTIFICATION OF DESIGN

Design information on file at _____
 Stress analysis report (Class 1 only) on file at _____
 Design specifications certified by (1) Stephen A. Shubert
 PE State PA Reg. No. PS-30264-Z
 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 certification 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. on August 5, 1983 have inspected the pump, or valve, described in this Data Report on August 5, 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 II.

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 11, 1983
 Inspector: [Signature]
 Commissioner: Pennsylvania #1676
Dist. Div. 1, Subpart 101.1

SERIAL NO: 12-214959
 MARK NO: 2SVS-698
 TYPE: VCS060-AZ-3
 COMMENTS: -----

2BV-064A

Amended 10/13/81 Page 1 of 1

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

1. Manufactured by VOGT MACHINE CO., LOUISVILLE, KY
(Name and Address of Manufacturer)
 2. Manufactured for DUQUESNE LIGHT CO., PITTSBURGH, PA
Name and Address of Purchaser or Owner
 3. Location of Installation SEWER VALVE FOUR SCALON - DIST #2, SHIPPINGPORT, PA
Name and Address of Plant
 4. Pump or Valve Check Valve Nominal Inlet Size 2" Outlet Size 2"
Inlet or Outlet

	ASME Code No.	ASME Certificate Holder's Serial No.	ASME Section Registration No.	ASME Drawing No.	ASME Class	ASME Part No.	ASME Year
(1)	Check	1-214959		E-48519	3		1983
(2)		CR76					
(3)		12-214959					
(4)		(See Attached BS-342)					
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Check Valve (Brief description of service for which equipment was designed)
 6. Design Conditions ASME Section II Div. 1 Class 3 Pressure Class 600 (1)
 7. Code Working Procedure ASME Section II Div. 1
 8. Pressure Retaining Parts

Mark No.	Sectional Spec. No.	Manufacturer	Remarks
(1) Castings			
		DUQUESNE LIGHT CO. SPINE & WEBSTER ENG. SEWER VALVE UNIT 2	RECEIVED OCT 17 1983 JOHN S. HUNTER ENGINEERING CORPORATION Technical Manager
	1.0.1204 FD NO.	2SV 1YA	
	MARK NO.	VCS060-AZ-3	
	MANUFACTURER'S NAME	VOGT MACHINE CO.	
(2) Pumps			
Body			
	E3872A	SA-105	VOGT
Flange			
	E3225	SA-105	VOGT
	E3871A	SA-105	VOGT

(1) For manually operated valves only.
 * Supplemental sheets in form of tabs, sketches or drawings may be filed 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.

FORM NIS-2 (Back)

9 Reports 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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENGINEER Date January 24 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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period Sept. 3 to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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-8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date January 24, 1991

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 12/31/90
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# 907378
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. 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 77 Edition, S'79 Addenda, --- Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 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)
2SWS-698	Henry Vogt, Machine	12-214959	---	E-48319	1983	Repaired	Yes
Disc	Vogt.	ESM	---	---	--	Removed	Yes

7. Description of Work: Removed valve internals

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 NY-1 (BACK)

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV. 1, 1974

EDITION, ADDENDA Summer 1974 (DATE), CODE CASE NO. N/A

DATE 5-26-82 SIGNED Ivo Dresser Ind. Inc. BY [Signature]
(IN CERTIFICATE HOLDER) Principal O.A. Engineer

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1767 TO USE THE NY
SYMBOL EXPIRES May 20, 1983 (DATE) (NY)

CERTIFICATION OF DESIGN

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

STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT _____

DESIGN SPECIFICATIONS CERTIFIED BY K. Martin Bendiksen

PE STATE Pennsylvania REG. NO. 27968F

STRESS REPORT CERTIFIED BY _____

PE STATE _____ REG. NO. _____

*SIGNATURE NOT REQUIRED—LIST NAME ONLY

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF LOUISIANA AND EMPLOYED BY THE HARTFORD STEAM BOILER I & S

COMPANY OF HARTFORD, CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 5-26

1982 AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE NY CERTIFICATE HOLDER HAS CONSTRUCTED THIS PUMP, OR VALVE, IN ACCORDANCE WITH THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS.

BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT, FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

DATE 5-26 1982

SIGNED [Signature] COMMISSIONS Pennsylvania WC2605
(INSPECTOR) (NAT'L BO STATE PROV AND NO)

SERIAL NO: TE-87704
 MARK NO: 2SWS-RV11202
 TYPE:
 COMMENTS:

2BV-657

INDUSTRIAL VALVE
 OPERATIONS



ALEXANDRIA, LOUISIANA 71301

FORM RV-1 A 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, DRESSER INDUSTRIES INC, HIGHWAY 71 NORTH ALEXANDRIA, LA.
 (NAME AND ADDRESS OF A CERTIFICATE HOLDER)
 2. MANUFACTURED FOR Duquesne Light Co., P.O. Box 186, Shippingport, PA 15077
 (NAME AND ADDRESS OF PURCHASER OR OWNER)
 3. LOCATION OF INSTALLATION Duquesne Light Co., Beaver Valley Pwr. Sta., Unit 2, Shippingport, PA 15077
 (NAME AND ADDRESS)
 4. 3NC3011 N/A 1982
 (CRM) (DRAWING NO.) (NATL. DRG. NO.) (YEAR BUILT)
 5. VALVE 3/4"-1975-3-XNC3011 IDENTIFYING NOS TE-87704
 (MODEL NO., SERIES NO.) (IN CERTIFICATE HOLDERS' SERIAL NO.)
 TYPE Safety Relief CLASS 3
 (SAFETY, SAFETY RELIEF; PILOT; POWER ACTUATED)
 ORIFICE SIZE .375 NOMINAL INLET SIZE 3/4 OUTLET SIZE 1
 INCH INCH INCH
 6. SET PRESSURE (PSIG) 150 RATED TEMPERATURE Saturated °F
 STAMPED CAPACITY 793 LBS/HR @ 10 % OVERPRESSURE BLOWDOWN (PSIG) Fixed
 SAT. STEAM
 HYDROSTATIC TEST (PSIG) INLET **See Below OUTLET N/A
 (APPLICABLE TO VALVES FOR CLOSED SYSTEMS ONLY)

7. PRESSURE RETAINING PIECES

	SERIAL NO OR IDENTIFICATION	MATERIAL SPECIFICATION INCL. TYPE OR GRADE
BODY	AAK98	SA182, Gr. F316
NOZZLE	AAK09	SA216, Gr. WCB
DISC	AAC14	SA182, Gr. F316
SPRING WASHERS	D-86	SA105
ADJUSTING SCREW	1G2946	SA479, Type 410
SPINDLE	1G2946	SA479, Type 410
SPRING	84316	ASTM A229, Class 1
COLLING		
OTHER PIECES		

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

**Base 600 PSIG
 Disc 600 PSIG

Duquesne Light Co.
 Beaver Valley Pwr. Sta. Unit 2
 P.O. No. 2BV-657 SRV
 TN 2SWS RV11202
 Dresser IVO, P.O. Box 1430
 Alexandria, La. 71301

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 statement 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 [Signature] ENG'G Date January 24 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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period Sept. 3 to Nov. 22, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NB8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date January 24 19 91

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 10/20/90
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# 906144
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DlCo - Maintenance Dept. 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, 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)
2SWS-RV112C2	Dresser	TE-87704	---	3/4"-1975-3	1982	Repaired	Yes

7. Description of Work Machined seat to remove pitting and reestablish correct angle

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 NO. 1 BACK

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS VALVE CONFORMS TO THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS, SECTION III, DIV. 1, 1974 EDITION, ADDENDA Summer 1974. CODE CASE NO. N/A

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

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

DESIGN INFORMATION

DESIGN INFORMATION ON FILE AT Dresser Plant, Alexandria, La

STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT

DESIGN SPECIFICATIONS CERTIFIED BY K. Martin Bendiksen
 PE STATE Pennsylvania REG NO 27945E

STRESS REPORT CERTIFIED BY
 PE STATE REG NO

SIGNATURE NOT REQUIRED-LIST NAME ONLY

CERTIFICATE OF SHOP INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF LOUISIANA AND EMPLOYED BY THE HARTFORD STEAM BOILER & COMPANY OF HARTFORD, CONN. HAVE INSPECTED THE PUMP OR VALVE DESCRIBED IN THIS DATA REPORT ON 9/5/84 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 FOR NUCLEAR POWER PLANT COMPONENTS.

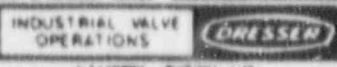
BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT, FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

DATE 9/5/84
 SIGNED [Signature] (INSPECTOR) COMMISSIONS Pennsylvania WC-1775
 (NAT'L BO STATE PROV AND NO)

RECEIVED

SEP 12 1984
 [Signature] & Webster
 Engineering Corporation
 Document Review

SERIAL NO: TG-36571
 MARK NO: DSR-RV134
 TYPE:
 COMMENTS:



FORM NO. 10 "CERTIFICATE NO. DEFS DATA REPORT FOR SAFETY AND SAFETY RELIEF VALVES"
 (AS REQUIRED BY THE PROVISIONS OF THE ASME CODE, SECTION VIII, DIV. 1)

1. MANUFACTURED BY: INDUSTRIAL VALVE OPERATIONS, DRESSER INDUSTRIES, INC., HIGHWAY 71, NORTH ALEXANDRIA, LA
(NAME AND ADDRESS OF MANUFACTURER)
 2. MANUFACTURED FOR: Duquesne Light Co., P.O. Box 186, Shippingport, PA 15077
(NAME AND ADDRESS OF PURCHASER OR OWNER)
 3. LOCATION OF INSTALLATION: Duquesne Light Co., Beaver Valley Pwr. Sta., Unit 2, Shippingport, PA 15077
(NAME AND ADDRESS)
 4. DRAWING NO.: NC3011 (DRAWING NO.) N/A (N/A) 1984 (YEAR BUILT)
 5. VALVE: 1-1/2" 1912-30F-1-XME. -NC3011 (MODEL NO. SERIES NO.) IDENTIFYING NOS: TG-36571 (CERTIFICATE NO./SERIAL NO.)
 TYPE: Safety Relief (SAFETY, SAFETY RELIEF, PNEUMATIC, POWER ACTUATED) CLASS: 2
 INLET SIZE: .674 (INCH) NOMINAL INLET SIZE: 1-1/2 (INCH) OUTLET SIZE: 2 (INCH)
 6. SET PRESSURE (PSIG): 685 (PSIG) RATED TEMPERATURE: Saturated (TEMPERATURE)
 STAMPED CAPACITY: 1200 (LBS. HR.) LBS. HR.: 40 (LBS. HR.) OVERPRESSURE BLOWDOWN (PSIG): Fixed (PSIG)
 HYDROSTATIC TEST (PSIG) INLET: **See Below (PSIG) OUTLET: ***See Below (PSIG)
(APPLICABLE TO VALVES FOR CLOSED SYSTEMS ONLY)

PRESSURE RETAINING PIECES	SERIAL NO. OR IDENTIFICATION	MATERIAL SPECIFICATION INCL. TYPE OR GRADE
BODY	AA546	SA216, Gr. WCB
BONNET OR YOKER	AAHQ1	SA216, Gr. WCB
SUPPORT RODS		
NOZZLE	AA229	SA182, Gr. F316
DISC	AA152	SAW79, Type 316
SPRING WASHERS		
ADJUSTING SCREW		
SPINDLE		
SPRING		
BOLTING	SLU	SA193, Gr. B7
OTHER PIECES		
	M.L.B. M31502	SA194, Gr. 2H

RECEIVED
 SEP 12 1984

JUNE & WEDGLEY
 ENGINEERING CORPORATION
 DOCUMENT REVIEW

*SUPPLEMENT SHEETS IN FORM OF LISTS, SKETCHES OR DRAWINGS MAY BE USED PROVIDED (1) SIZE IS 8-1/2" X 11"
 (2) INFORMATION IN ITEMS 1-7 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

**Base 450 PSIG
 Disc 5515 PSIG
 Nozzle 5575 PSIG

***Bonnet 450 PSIG

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENR-1 Date January 24 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 Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts

have inspected the components described in this Owner's Report during the period Sept. 3 to Nov 22, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 8316 PA 2278
Inspector's Signature National Board, State, Province, and Endorsements

Date January 23, 19 91

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 9/29/90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 909716
Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Sample System-Reactor

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 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)
2SSR-RV134	Dresser Industrial	TG-36571	---	1.5-1912-30F-1	1984	Repaired	Yes
Nozzle	Dresser Industrial	AAE29	---	---	--	Repaired	Yes

7. Description of Work Machined .015" from nozzle to remove pitting

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.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Bolting Stud 223-658K075 Code "23"	SA-193, B7	Daniel Bolt Co.	
Nut D078N Code GR	SA-194, G-2H	Wm. H. Haskell Mfg. Co.	
(d) Other Parts Plug BM31	SA-105	Bonney Forge Div	
Plug BF80	SA-105	Bonney Forge Div	

VALVE
 D-63950
 SERIAL NO.

2. 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 11/9/77
 Signed Walworth Co. by [Signature]
(Manufacturer)
 Our ASME Certificate of Authorization No. 950 to use the N symbol expires 1/6/78
(N NPV) (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 Duquesne Light Company
 Design specifications certified by (1) C. O. Richardson, Jr. of Vesley Unit No. 2
 PE State PA Reg. No. 0162975 O. No. 2BV-73, I. O. No. 1228
 Stress analysis certified by (1) N/A Carbon Steel Valves - 2 1/2 in. and larger
 PE State _____ Reg. No. _____ Walworth Company
Greensburg, PA 15601
 (1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the State of Pennsylvania and employed by The Hartford Steam Boiler I & I C of Hartford, Conn. 06102 have inspected the pump, or valve, described in this Data Report on 11-9-77 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 11-9-1977
[Signature] Inspector
 Commissions NB4207N
(Mark No., State, Prev. and No.)

SERIAL N°: D63950
 MARK NO: 2SWS-486
 TYPE: VCW015-A-3
 COMMENTS: -----

EBV-073

PN31299-A3T

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

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

(a) Model No. Serial No. or Type	(b) Manufacturer's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year Built
(1) 5341 WE BB	D63950	N/A	SK-1957 JB H	3	1322	1977
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

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

6. Design Conditions 275 psi Temperature °F or Valve Pressure Class ANSI 150 (1)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body 107G P2	SA-216, WCB	Valve Castings	Seal Welded Seats
Cover B150 P1	SA-216, WCB	Walworth Co.	CoCrA Backseat
Disc G55 P2	SA-216, WCB	Walworth Co.	CoCrA Faced
	Duquesne Light Company		
 VALVE MARK NO. 2		
	P. NO. EBV-073	O. NO. 12241	
	Category 1	2 1/2 in. and larger	Category 1
(b) Forgings	Walworth Company	Greensburg, PA 15601	

VALVE
 D-63950
 SERIAL NO.

(1) For manually operated valves only.

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

6 ✓

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature] ENG 1
Owner or Owner's Designee, Title

Date Dec. 28 19 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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

in this Owner's Report during the period Dec. 28, 1990 to , and state that to the best of my knowledge (I believe, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions NB 8316 PA 2248
National Board, State, Province, and Endorsements

Date Dec. 28, 19 90

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 12/12/90
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 #905998
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. 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 S'72 Addenda 1672 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-486	Walworth Co.	D63950	1322	3" - 5341 WE BB	1977	Repaired	Yes
Body Plug	Crave-Aloyed	B0868	-----	Part # 0652806	----	Replacement	Yes
Nut	R.E.C. Corporation	Trace Code JE	-----	-----	----	Replacement	Yes

7. Description of Work Replaced one body hinge pin plug and cap nut.

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.

Remarks: Report corrected to add the date to the Certificate of Shop Inspection after Verification to the Component Route Sheet. Original ANI Signee is no longer in the employment of Factory Mutual.

Lawrence P. Rice 4-28-87
Crosby Quality Assurance Date

[Signature] MA 1375
NB 9792-N PAVC '27
Factory Mutual ANI Da

	Serial No. or Identification	Material Specification including Type or Grade
c. Spring	<u>NX2761-0103</u>	<u>ASTM-A304 Gr. 51860H</u>
d. Bolting		
e. Other Parts such as Pilot Components		
Bonnet Stud	100987	ASTM-A453-70 Gr. 660 ASME-SA553 Gr. 660
Bonnet Stud Nut	89997	ASTM-A193-71 Gr. B6 ASME-SA193 Gr. B6
Inlet Stud	N90488-0609 thru 0620	ASTM-A453-70 Gr. 660 ASME-SA553 Gr. 660
Inlet Stud Nut	N90489-0609 thru 0620	ASTM-A193-71 Gr. B6 ASME-SA193 Gr. B6

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

Date 4-6 19 76 Signed Crosby Valve & Gage Co. By [Signature]
Manufacturer QA Manager

Certificate of Authorization No. 926 expires October 28, 1977

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass and employed by Factory Mutual Systems*, Norwood, Mass. have inspected the equipment described in this Data Report on 4-8 19 76 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

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

Date 4-8-76 19 76
[Signature] Commissions AS 7325
(Inspector) National Board, State, Province and No.

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

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM HV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules Q.C.-46C

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick Street, Wrentham, Ma. 02093
 Assm. No. N-56963 6M, 6 Name and Address
 Model No. HB-86BP Order No. N303157 Contract Date 4-4-73 National Board No. 206
Westinghouse Electric Corp., Nuclear
 2. Manufactured For Energy Systems, Pittsburgh, Pa. 15230 Order No. 546-CCK-178357-BN
 Name and Address
 3. Owner Duquesne Light Co., Beaver Valley Power Station, Beaver Valley #2
 Name and Address
 4. Location of Plant Shippingport, Beaver County, Pennsylvania
 5. Valve Identification 6RV8815B Serial No. N56963-00-0009 Drawing No. DS=C-56963 Rev. C
 Type Safety Orifice Size 0.52 Pipe Size 1 Inlet 6 Outlet 6
Safety Safety Relief Pilot Power Actuated Inch Inch Inch Inch
 6. Set Pressure (PSIG) 2485 Rated Temperature 650° F
 Stamped Capacity 344972 lbs./hr. @ 3 % Overpressure 5% Blowdown (PSIG) 125 psig
 Hydrostatic Test (PSIG) inlet 4575 psig Complete Valve 750 psig

7. The material, design, construction and workmanship comply with ASME Code, Section III.
 Class 1 Edition 1971, Addenda Date Winter 1972, Case No. ---

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification including type or Grade
a. Bar Stock & Forgings		
Body	<u>N90490-33-0046</u>	<u>ASTM-A182-71 F316</u> <u>ASME-SA182 F316</u>
Bonnet	<u>N90353-38-0080</u>	<u>ASTM-A105 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
b.		
Support Ends	<u>N90556-34-0010</u>	<u>ASTM-A182-71 F316</u> <u>ASME-SA182 F316</u>
Nozzle	<u>N90533-32-0042</u>	<u>ASTM-A637 Gr. 718</u>
Disc Holder K57220-36-0061	<u>N90350-34-0188</u>	<u>ASTM-A105 Gr. 2</u>
Spring Washers K56380-39-0082	<u>N90350-37-0188</u>	<u>ASME-SA105 Gr. 2</u>
Adjusting Bolt	<u>N90351-38-0084</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Spindle Point K56381-34-0048	<u>N90354-34-0048</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Spindle Ball	<u>N90355-0048</u>	<u>ASTM-A276-73 Type 4-0C</u>
Disc Insert	<u>N90349-44-0048</u>	<u>Haynes Stellite No. 6B</u>

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 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 [Signature] ENG-1 Date Dec. 6 19 90
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 Sept. 5 to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA 2278
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 6, 19 90

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 11/20/90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 908125
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. 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 1971 Edition W'72 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)
2RCS-RV551B	Crosby Valve Co.	N56963-00-0009	206	6RV88LSB	1976	Repaired	Yes

7. Description of Work Replaced two inlet studs

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.

*CORRECTED COPY

Changed "Manufactured For" from Stone and Webster Engineering Corp. to read Duquesne Light Company.

Sheet 2 of 2

SUPPLEMENT SHEET

FORM NPV-1

1. MANUFACTURED BY: Kerotest Manufacturing Corp. MU-68615

2. MANUFACTURED FOR: Duquesne Light Company

DRAWING NUMBER: SW-D-9954-(2) TYPE: Globe

MANUFACTURER'S SERIAL NUMBERS

- 11. BAF10-18
- 12. BAF10-19
- 13. BAF10-20
- 14. BAF10-21
- 15. BAF10-25
- 16. _____
- 17. _____
- 18. _____
- 19. _____
- 20. _____
- 21. _____
- 22. _____
- 23. _____
- 24. _____
- 25. _____

DUQUESNE LIGHT CO.
 BEAVER VALLEY POWER STATION - UNIT #2
 P.O. # 2BV-83, (J.O. No. 12241)
 HERMETICALLY SEALED GLOBE VALVES, CATEGORY 1

5. (SERVICE) Piping Systems (Radioactive Fluids)

SIGNED: Kerotest Manufacturing Corp. By: [Signature] Date: 10/18/83

Authorized Nuclear Inspector By: [Signature] Date: 12/18/83

2030

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			
Disc - BAU	SA479, Type 316	Universal Cyclops	
Bonnet - BAQ	SA479, Type 316	Universal Cyclops	

9. Hydrostatic test 5400 psi. Over Differential test pressure 3600 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 1977 Code Case No. 1539 Date October 18, 1983
 Signed Kerotest Manufacturing Corp. by [Signature]
(In Certificate Holder)
 Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 10/31/80
(N) (Date)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.
 Stress analysis report (Class 1 only) on file at N/A
 Design specifications certified by (1) Faruk A. Gopalani
 PE State PA Reg. No. 21966-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 Pennsylvania and employed by The Hartford Steam Boiler of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on 2-23-79 1979 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 10-18-83 1983
[Signature] Commissions PA2187
(Inspector) (Nat'l Bd., State, Prov. and No.)

2027

*CORRECTED COPY

- 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 Sht. 1 of 1

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh, PA (NU-68615)
(Name and Address of N Certificate Holder)

2. Manufactured for Duquesne Light Co., P.O. Box 186, Shippingport, PA 15077
(Name and Address of Purchaser or Owner)

3. Location of installation Beaver Valley Power Station, Unit 2, Shippingport, PA
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 3/4" Outlet Size 3/4"
(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'l Std No	(g) Year Built
(11) Globe	VH14-11	N/A	SW-D-9954-(2)	2	N/A	1979
(12) Globe	VH14-22	N/A	SW-D-9954-(2)	2	N/A	1979
(13) Globe	BAF10-1	N/A	SW-D-9954-(2)	2	N/A	1979
(14) Globe	BAF10-2	N/A	SW-D-9954-(2)	2	N/A	1979
(15) Globe	BAF10-4	N/A	SW-D-9954-(2)	2	N/A	1979
(16) Globe	BAF10-6	N/A	SW-D-9954-(2)	2	N/A	1979
(17) Globe	BAF10-14	N/A	SW-D-9954-(2)	2	N/A	1979
(18) Globe	BAF10-16	N/A	SW-D-9954-(2)	2	N/A	1979
(19) Globe	BAF10-23	N/A	SW-D-9954-(2)	2	N/A	1979
(10) Globe	BAF10-24	N/A	SW-D-9954-(2)	2	N/A	1979

5. Piping Systems (Radioactive Fluids)
(Brief description of service for which equipment was designed)

6. Design Conditions 2580 psi 650 F or Valve Pressure Class 1500# (1)
(Pressure) (Temperature)

7. Cold Working Pressure 3600 psi at 100°F

8. Pressure Retaining Pieces

Mark No	Material Spec No	Manufacturer	Remarks
(a) Castings			
			*Changed "Manufactured For" from Stone and Web Engineering Corp. to read Duquesne Light Company.
(b) Forgings			
Body - BAF, VE	SA182, F316	McWilliams Forge	
Yoke - VP, VF	SA105	McWilliams Forge	
DUQUESNE LIGHT CO. BEAVER VALLEY POWER STATION - UNIT #2 P.O. # 2BV-83 (10 No 182-17) HERMETICALLY SEALED GLOBE VALVES, CATEGORY 1			

(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.

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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 NGAM 9.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENGI Date Dec. 6 19 90
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

in this Owner's Report during the period Sept. 3 to Nov. 22, 1990 have inspected the components described to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA 2248
Inspector's Signature *Factory Mutual Systems
National Board, State, Province, and Endorsements

Date Dec. 6 19 90

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

1. Owner Duquesne Light Company Date 11/28/90
Name
One Oxford Centre - Pitsburgh, PA 15279 Sheet 1 of 1
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR# 906347
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. 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, 1977 Edition, ----- Addenda, 1539-1 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)
2CHS-647	Kerotest	----	-----	.75" SW-D-9954	--	Repaired	Yes

7. Description of Work Machined valves disc .005"

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/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] ENG I Date Dec. 10 19 90
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

in this Owner's Report during the period Sept. 3 to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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] Commission No. NB8316 PA2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 10 19 90

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 11/27/90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 909731
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Nuclear Construction 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 10 Edition, 1983 Addenda, 1983 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)
2FWS-PSSP001	Paul Munroe	S/N 1887	-----	Snubber PMI-2300	---	Replaced	No
2FWS-PSSP001	Paul Munroe	PD26973- 1775	-----	Snubber PMH-2300	---	Replacement	No

7. Description of Work Replaced snubber w/like kind
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.

*Corrected Copy
SUPPLEMENT SHEET
FORM NPV-1

1. MANUFACTURED BY: Kerolast Manufacturing Corp., Pittsburgh, Pa. 15222 DE-AGALS Item 17
2. MANUFACTURED FOR: Duquesne Light Company P.O. Box 186, Shippingport Pa. 15077
DRAWING NUMBER: SM-D-10000L(2) TYPE: GLUCSE VALVE

MANUFACTURER'S SERIAL NUMBERS

- 11. LAD39-8
- 12. LAD39-9
- 13. LAD39-10
- 14. LAD39-12
- 15. LAD39-15
- 16. LAD39-18
- 17. LAD39-25
- 18. _____
- 19. _____
- 20. _____
- 21. _____
- 22. _____
- 23. _____
- 24. _____
- 25. _____

0033

5. (SERVICE) PIPING SYSTEMS (RADIOACTIVE FLUIDS)

*CORRECTION: CHANGED MANUFACTURED FOR FROM STONE & WEBSTER TO READ DUQUESNE LIGHT CO.

SIGNED: Kerolast Manufacturing Corp. By: [Signature]
Authorized Nuclear Inspector By: _____

DATE: 10/13/83
DATE: _____

DUQUESNE LIGHT CO.
BEAVER VALLEY POWER STATION - UNIT #2
P.O. # 287423, OMA, Mo. 62243
HERMETICALLY SEALED UNDER WATERS, CATEGORY 1

"Corrected Copy"

FORM NPV-1 IN CERTIFICATE HOLDING DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the AECR Code, Section II, Div. 1

1 of 2

1. Manufactured by FRIGIDE MANUFACTURING CO., PLEASANTON, PA 15222 NY-49613 ICR 17
 2. Manufactured for QUINCY LIGHT SOURCE P.O. BOX 100, BRIDLEWOOD, PA 15077
 3. Location of Installation BRIDGE VALLEY, POWER REACTIVE, POLE # 2
 4. Part of Valve VALVE Nominal Inlet Size 1/2" Outlet Size 1/2"

Serial No. or Type	Serial No.	IC Canadian Registration No.	IC Drawing No.	IC Class	IC Mat'l C.C. No.	IC Year Built
(1) GLOBE	CAK3-3	H/A	NY-8-100000-(2)	2	H/A	1962
(2) GLOBE	CAK3-7	H/A	NY-8-100000-(2)	2	H/A	1962
(3) GLOBE	CAK3-9	H/A	NY-8-100000-(2)	2	H/A	1962
(4) GLOBE	CAK3-13	H/A	NY-8-100000-(2)	2	H/A	1962
(5) GLOBE	CAK3-19	H/A	NY-8-100000-(2)	2	H/A	1962
(6) GLOBE	LAD3-2	H/A	NY-8-100000-(2)	2	H/A	1962
(7) GLOBE	LAD3-3	H/A	NY-8-100000-(2)	2	H/A	1962
(8) GLOBE	LAD3-4	H/A	NY-8-100000-(2)	2	H/A	1962
(9) GLOBE	LAD3-5	H/A	NY-8-100000-(2)	2	H/A	1962
(10) GLOBE	LAD3-7	H/A	NY-8-100000-(2)	2	H/A	1962

PIPING SYSTEMS (RADIOACTIVE FLUIDS)

5. Give description of piping for which equipment was designed

6. Design Certificate 3413 or 300 or Valve Pressure Class 15000 (1)

7. Cold Working Pressure 3413 or 100%

8. Pressure Retaining Flange

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			*Correction Changed Manufacture for Iron Globe & WABCOY to read Quinco Light Company
(b) Forgings			
	BODY-CLK, IAD SA162, F316	METALLURGICAL	
	TYPE-2AB SA103	METALLURGICAL	
			FORGING 1/2" - 4-66 HEAVY WOOD-TOWER MOUNTED - 1/2" IN P.L. V ZEPHYR - SA-103 HEAVILY-SEALED GLOBE VALVE, QUINCOY

(1) For manually operated valves only.

* Supplements of sheets in form of lists, sketches or drawings may be used provided (1) each 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 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 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 [Signature] ENG 1 Date Nov 27 '990
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 7/24/90 to 11/27/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NO 8941 PP146
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27 '990

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 11-16-90
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# 905919
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. 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 77 Edition S'77 Addenda 1539 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)
2CHS-574	Kerotest	LAD39-8	-----	SW-d-10080E	1982	Repaired	Yes
Disc	Anaconda Brass	LAU	-----	-----	----	Repaired	Yes

7. Description of Work: Machined .005" from valve disc
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.

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlet: 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 53B	SCH 40	SA 515-70	Welded
Drain	1	1"	Coll.	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 & 1 bottom tubesheet

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

18. Supports: Skirt No. _____ Lugs No. _____ Legs No. _____ Other _____ Attached _____ Shell welded _____
(Yes or No) (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"

DAL 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 Carlotta Richardson Prof. Eng. State Pa. Reg. No. 01625-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 30 19 76 Signed Joseph Oat Corp By John J. Sanchez
(Manufacturer)

Certificate of authorization Expires Sept. 30, 1976 Certificate of Authorization No. 63

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 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 23 19 76
Inspector's Signature: [Signature] Commission: NB 4438 Pa. 1286
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 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 N-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR VESSELS

As required by provisions of the ASME Code (U-1)

1. Manufactured by Joseph Ort Corp., 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) No. 1 Bd. No. 892 Yr. built 1976
 (Horizontal or Vertical) (Type, Jacketed, Heat Ex.) (Mfr. Serial No.) (Plate & State No.)
 3a. Applicable ASME Code Section III, Edition 1971, Addenda date Supp. '72, Case No. _____
 Code _____ 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 T.S. 75,000 Nominal Thickness 1/8 in. Corrosion Allowance 0 in. Dia. 2 ft. 11 1/2 in. Length 36 ft. 7 3/8 in. S to
 (Kind & Spec. No.) (Min. of range specified)
 5. Seams: Long DBL Butt Welded H.T. No R.T. Complete Efficiency 100 %
DBL Butt Welded H.T. No R.T. Complete No. of Courses 5

6. Heads: (a) Material T.S. (b) Material T.S.
 Location Thickness Crown Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Concave or Convex)
 (a) _____
 (b) _____
 If removable, bolts used _____ Other fastening _____
 (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure _____
 (Describe as type & weld, bar, etc. If bar give dimensions, describe or sketch)
 8. Design Pressure 250 psi at 250 °F at temp. of _____ °F. Test Pressure 400 psi
 Deep Weight _____ Parameter _____
 Charpy Impact _____ ft-lb Hydrostatic or _____
 Combustion _____

Items 9 and 10 to be completed for tube sections.

9. Tube Sheet Stationary. Material SA240-304 Dia. 14 in. Thickness 1 1/2 in. Attachment Welded
 (Kind & Spec. No.) (Subject to proof) (Welded, Bolted)
 Floating. Material _____ Dia. _____ in. Thickness _____ in. Attachment _____
 (Kind & Spec. No.)
 10. Tubes Material SA249-304 Dia. 5/8 in. Thickness 20 ga. 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. S
 (Kind & Spec. No.) (Min. of range specified)
 12. Seams: Long DBL Butt Welded H.T. Yes R.T. Complete Efficiency 100 %
 (Welded, Bolt., Single) (Yes or No)
DBL Butt Welded H.T. YES R.T. Complete No. of Courses 1 Each End

13. Heads: (a) Material SA515 T.S. 70,000 (b) Material _____ T.S. _____ (c) Material _____ T.S. _____
 Location Thickness Crown Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Concave or Convex)
 (a) Top, bottom, ends 2 1/2 _____ _____ _____ _____ _____ 38" Flat
 (b) Channel _____
 (c) Flange _____

14. If removable, bolts used (a) 1 Studs (SA193-87) (125,000) (3/4) (36) Each End (b) _____ Each End (c) Nuts (SA194-2H) (3/4) (72)
 (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)
 Deep weight _____ Parameter _____
 Charpy Impact _____ ft-lb Hydrostatic or _____
 Combustion _____
 14a. Design pressure 150 psi at 250 °F at temp. of _____ °F. Test Pressure 225 psi

* If Fabricated Heat-Treated

** Add other internal or external pressures with substantial temperature when applicable.

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 10-20-90
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 # 899387, 896238
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCO - Maintenance Dept. 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 Section III 1974 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 Standard No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2FWS-30	Atwood-Morrill Co.	9-13540	-----	16" Check Valve	1979	Repaired	Yes
Studs	Cardinal Industrial	Heat Code E1	-----	Heat No. 8869139	---	Replacement	No
Nuts	Cardinal Industrial	Heat Code B2	-----	Heat No. KB4290	---	Replacement	No

7. Description of Work Weld repaired body gasket seating surface and replaced all body to cover 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 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 NPV-1 (Back)

Matn No.	Material Spec No.	Manufacturer	Remarks
(c) Bolting			
Cover Bolting			
Studs	SA 193, Gr. B7	Jos. Dyson & Sons	C89
Nuts	SA 194, Gr. 2H	Jos. Dyson & Sons	D11
Bearing Cover Bolting			
Studs	SA 193, Gr. B7	Jos. Dyson & Sons	E97
Nuts	SA 194, Gr. 2H	Jos. Dyson & Sons	D01
(d) Other Parts			
Cover	A 515, Gr. 70	U.S. Steel Corp.	S/N 9-13540
Ht. # 65C744			

9. Hydrostatic test 2175 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 Walter F. Morrison 22 Feb 77
(N Certificate Holder) Quality Control Manager
 Our ASME Certificate of Authorization No. N-1266 to use the N symbol expires 5-20-80
(N) Class

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster Engineering Corp.
 Stress analysis report (Class 1 only) on file at _____
 Design specifications certified by Eric M. ...
 PE State Pennsylvania Reg. No. 27109
 Stress analysis certified by ...
 PE State N/A 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 Massachusetts and employed by U.S.S.I., S.I., Co.
 of MARSHFIELD, MA have inspected the pump or valve described in this Data Report on Feb 23rd 1977 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 Feb 23rd 1977
H. P. ... Commissions Mass 1176 PA W 2530
Inspector Net 80 State 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 09-28-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 896265
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. 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 19 77, Edition, S'79 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)
2 RCS-PCV455D	Garrett Pneumatic	P-122	-----	P.O.R.V.	1983	Repaired	Yes
Plug	Coulter Steel Forge	#9-9939	-----	-----	----	Replaced	Yes
Plug	Garrett Pneumatic	N96012-39-0035	-----	-----	----	Replacement	Yes

7. Description of Work Valves plug was 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 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 NGAM 8.5 "ASME Section XI Repair/Replacement Progr

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

Signed [Signature] Owner or Owner's Designee, Title Date Nov. 1 19 90

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding 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 Sept. 4 to Nov. 1, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Inspector's Signature Commission NB. 8316 PA 2248
National Board, State, Province, and Endorsements

Date Nov. 1 19 90

1. Manufactured by Garrett Pneumatic Systems Division, P. O. Box 5217, Phoenix, AZ 85010
(Name and Address of Manufacturer)
 2. Manufactured for Westinghouse Electric Corp. RES, 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)	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) 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 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 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#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

9. 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 rule 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) Dec 84

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) Signatures not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of 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] December 9, 1983
 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 10-26-90
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# 905231
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCO - Maintenance Dept. Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
4. Identification of System Steam Vest
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 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)
2SV8-80	Atwood - Morrill	3-13540-28	-----	6" Check Valve	1983	Repaired	Yes
Disc	Atwood - Morrill	#2	-----	HT#W8915	1989	Replaced	Yes
Disc	Atwood - Morrill	RT#X2880	-----	HT#P8668-2	----	Replacement	Yes
Studs	Cardinal Products	-----	-----	HT#8098719	----	Replacement	No

7. Description of Work Replaced valve disc and two bonnet studs.

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed *Thomas J. Ubb* ENG 1 Date Nov 28 19 90
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 9/8/90 to 11/29/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Michael K. Smith Commissions KB 844 PALLU
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/29 19 90

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

As Required by the Provisions of the ASME Code, Sec. II, 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 Duquesne Light Co.)
(Name and Address of Purchaser or User)
3. Location of Installation Beaver Valley Power Station, Shippingport, 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) NPT Bd No.	(g) Year Built
	(1)	6" Check Valve	3-13540-28	N/A	13540-28 Rev. 1	2	N/A
(2)							
(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. 2BV-20 Misc. Check Valves 2 1/2" and Larger Manufactured By Atwood & Morrill Co., Inc. 285 Canal Street Salem, MA 01970	

(1) For manually operated valves only

* Fundamental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11" (2) information is

FORM NPV-1 (Back)

Mark No	Material Spec No	Manufact	Remarks
(c) Bolting			
Cover Studs	SA 193 Gr. B7	Ranson Mfg. Inc.	Trace # 0M
Cover Nuts	SA 194 Gr. 2H	Ranson Mfg. Inc.	Trace # N46
(d) Other Parts			
Covers*	SA 515 Gr. 70	Mills Alloy Steel	Mt. #22900-330

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. Conroy RA MGR 1/11/84
(N Certificate Holder)
 Our ASME Certificate of Authorization No. N-2606 to use the N symbol expires 6/13/86
(N) (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. 28V-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 c ANG 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 09-28-90
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# 899420
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
4. Identification of System Steam Vent System
5. (a) Applicable Construction Code Section 111.19.74 Edition S'74 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)
2svs-81	Atwood Morrill Co.	1-13540-28	-----	6" Check Valve	1984	Repaired	Yes
Disc	Quaker Alloy	RT#xr2097	-----	HT#x5705	----	Replaced	Yes
Disc	Atwood Morrill	RT#-x2881	-----	HT#PR268-3	----	Replacemt	Yes
Stud	Cardinal Products	-----	-----	HT#8098719	----	Replacemt	No

7. Description of Work Replaced valve disc and one bonnet stud

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 NGAM 8.5 *ASME Section XI Repair/Replacement Progr

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

Signed [Signature] ENG I Date Nov 29 19 90
 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 9/2/90 to 11/19/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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] Commission LB04H PA2166
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/29 19 90

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 Seaver 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) Mat'l. Id. No.	(g) Year Built
(1)	6" Check Valve	1-13540-2B	N/A	13540-2B 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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	SA 216 Gr. WCB	Quaker Alloy	Ht. # F5225-15
Disc	SA 351 Gr. CF8M	Quaker Alloy	Ht. # X5814-1
(b) 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 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.

FORM NPV-1 (Rev. 1)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cover Studs	SA 193 Gr. B7	Bonson Mfg. Inc.	Trace No. QA
Cover Nuts	SA 194 Gr. 2H	Bonson Mfg. Inc.	Trace No. 446
(d) Other Parts			
Cover	SA 515 Gr. 70	Mills Alloy Steel	Mr. # 02900-180

B. 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 J. M. Conroy QA MGR 1/30/84
(In Certificate Holder)
 Our ASME Certificate of Authorization No. N-2606 to use the H 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.

RECEIVED

FEB 10 1984

Stone & Webster
 Engineering Corporation
 Document Review

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 19 84
Ronald D. Williams (Inspector) Commission MA1218 WC2964
(Mark Sls., 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 09-28-90
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# 908936
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. Type Code Symbol Stamp Not Applicable
Name Authorization No. "
Shippingport, PA 15077 Expiration Date "
Address
4. Identification of System Steam Vent System
5. (a) Applicable Construction Code Section 111.19 74 Edition S'74 Addenda ----- Code Case
 (b) Applicable Edition of Sec. on XI Utilized for Repairs or Replacements 832-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 Co.	2-13540-28	-----	6" Check Valve	1983	Repaired	Yes
Disc	Atwood-Morrill Co.	#4	-----	HT# W8915	1989	Replaced	YES
Disc	Atwood - Morrill Co.	RT#-x2879	-----	HT#p8668-1	----	Replacemr	Yes
Nuts	Nova Machine	-----	-----	HT#8896.51	----	Replacemr	no
Studs	Cardinal Products	-----	-----	HT#8098719	----	Replacemr	No

7. Description of Work: Replaced valve disc and two cover studs and nuts

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 replacem 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 Progra"

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

Signed [Signature] ENGR Date Nov. 28 19 90
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 7/19/90 to 11/24/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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] Commission no 8441 P2246
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/29 19 90

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 CODE

1. Manufactured by Atwood & Merrill Co., Inc. Salem, Mass. 01970
(Name and Address of N Certificate Holder)

2. Manufactured for Stone & 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
(inches)

	(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)	6" Check Valve	2-13540-28	N/A	13540 28	2	N/A
(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
(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 sheet is recorded at top of this form

Mark No	Material Spec No	Manufacturer	Remarks
(c) Bolting Cover Studs	SA 193 Gr. 67	Banson Mfg. Inc.	Trace # 08
Cover Nuts	SA 194 Gr. 2H	Banson Mfg. Inc.	Trace # 046
(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 (Date), Code Case No. N/A, Date N/A

Signed Atwood & Morrill Co., Inc. by J. M. Conroy GA MGR 1/11/84
(N Certificate Holder)
Our ASME Certificate of Authorization No. N-2606 to use the IL (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 Duquesne Light Co.
Beaver Valley Unit 2
Design specifications certified by (1) Walter J. Parker, Jr. P.O. No. 2BV-20
PE State PA Reg. No. 29003-F Misc. Check Valves
Stress analysis certified by (1) N/A 2 1/2" and Larger
PE State N/A Reg. No. N/A 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.

Date 1/10 19 84
W. J. Parker
Commissions PAUC 3002

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 10-20-90
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 MWR# 899385 899386
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. 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 Section III 1974 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)
2FWS-29	Atwood-Morrill Co.	8-13540	-----	16" Check valve	1979	Repaired	Yes
Studs	Cardinal Industrial	Heat Code E1	-----	Heat No. 8869139	----	Replacement	No
Nuts	Cardinal Industrial	Heat Code B2	-----	Heat No. KB4290	----	Replacement	No

7. Description of Work Machined .042" from valve cover and replaced body to cover bolt in also machined .005" from disc. Also reattached ASME code plate.

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 NPV-1 form attached
 Applicable Manufacturer's Code 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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG I Date Nov. 28 19 88
 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 9/28/90 to 11/29/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NE 8441 PALLUS
 Inspector's Signature National Board, State, Province, and Endorsements

Date 11/29 19 90

SERIAL NO: 8-13540
 MARK NO:
 TYPE:
 COMMENTS:

2BV-02

ASME B31.1 CERTIFIED HOLDER'S DATA REPORT FOR MANUAL PUMPS OR VALVES
 As Required by the Provisions of the ASME Code, Sec. I, Div. 1

1. Manufactured by Alwood & Morrill Co., Inc. Salem, MA 01970
(Name and Address of Manufacturer)

2. Manufactured for Sione & Webster
(Name and Address of Purchaser or Owner)

3. Location of installation BEAVER VALLEY POWER STATION Shipping Port, PA
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 16 inches Outlet Size 16 inches

(a) Model No. 16" Check Valve (b) N Certificate Holder's Serial No. 8-13540 (c) Canadian Registration No. N/A (d) Drawing No. 13540-03-F Rev. 4 (e) Class 2 (f) Next Ed. No. N/A (g) Year Built 1979

5. 16" Check Valve Deep Water
(Brief description of service for which equipment was designed)

6. Design Conditions 1170 psi 450 (Temperature) F or Valve Pressure Class N/A (1)
(Pressure)

7. Cold Working Pressure 1430 psi at 100°F

8. Pressure Retaining Parts

Part No	Material Spec No	Manufacturer	Remarks
(a) Castings			
Body	HL # F1897	SA 216, Gr. WCB	Quaker Alloy
	RL # F15E3	SA 216, Gr. WCB	Quaker Alloy
Disc	HL # F39A7	SA 216, Gr. WCB	Quaker Alloy
	RL # S1371	SA 216, Gr. WCB	Quaker Alloy
Brg. Cover	HL # F0765	SA 216, Gr. WCB	Quaker Alloy
	RL # S1442	SA 216, Gr. WCB	Quaker Alloy
Brg. Cover	HL # F0765	SA 216, Gr. WCB	Quaker Alloy
	RL # S1443	SA 216, Gr. WCB	Quaker Alloy

(b) Forgings

Part No	Material Spec No	Manufacturer	Remarks

(1) For manually operated valves only

* Supplemental sheets in form of lists, sketches or drawings may be used provided 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

12173

This form (E0003) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N. Y. 10017

FORM NPV-1 (Rev. 11-68)

Part No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cover Bolting			
Studs	SA 193, Gr. B7	Jos. Dyson & Sons	CB9
Nuts	SA 194, Gr. 2H	Jos. Dyson & Sons	D11
Bearing Cover Bolting			
Studs	SA 193, Gr. B7	Jos. Dyson & Sons	E97
Nuts	SA 194, Gr. 2H	Jos. Dyson & Sons	D01
(d) Other Parts			
Cover	A 515, Gr. 70	U.S. Steel Corp.	S/N 8-17540
HL # 650744			

Hydrostatic test 2175 psi. Peak 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 Alwood & Morrill Co., Inc. by Walter P. Morrison 22 Feb 79
A Certificate Holder Quality Control Manager
 Our ASME Certificate of Authorization No. N-1766 to use the N symbol expires 5-20-80
(N) Class

CERTIFICATION OF DESIGN

Design information on file at Stone & Webster Engineering Corp.
 Stress analysis report (Class 1 only) on file at _____
 Design specifications certified by (1) Feruk A. Gopalani
 PE State Pennsylvania Reg No. 21966 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 of Massachusetts and employed by N.B.B.I. & I. Co. of Hartford, CT have inspected the pump or valve described in this Data Report on Feb 23rd 19 79 and state (N) 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 Feb 23rd 19 79 Commissions Mass 1196 PE 114 2510
(Inspector) (N.B.B.I. 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 10-02-90
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# 908688, 907550
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Construction Dept. 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, ----- 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)
2CHS-E22	Joseph Oat Corp.	2268-4	950	Vertical Heat Exch.	1976	Repaired	Yes

7. Description of Work Replaced end bell 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 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 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 Progr

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

Signed [Signature] ENG I Date Dec. 10 19 90
 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 Sept. 3 to Nov. 22, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NB8316 PA22-18
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec. 10, 1990

FORM N-1 (Contd)

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 as per	Reinforcement	How Attached
Inlet, Outlet	2 (1 ea)	6"	Pipe/Flg	SA106B/SA105	SCH 40/150	SA285-C	Welded
Inlet, Outlet	2 (1 ea)	2"	Pipe/Flg	SA182F304	SCH 40/3000	None	Welded
Vent	2	3/4"	Cplg	SA105	3000	None	Welded
Drain	7	3/4"	Cplg	SA182F304	3000	None	Welded

17. Inspection Handholes, No. _____ Size _____ Location _____
 Openings Handholes, No. _____ Size _____ Location _____
 Threaded, No. 1 Size 3/4 Location Tubesheet

18. Supports: Skin No _____ Legs No 2 Legs 2 Other --- Attached Bonnet head welded
 (Yes or No) (Number) (Number) (Description) (What & How)

19. Remarks: Bonnet shell (Tubesheet) is a head SA240-304 welded to a flange SA182F304
 OAL is 16' 5"

Contents Shell and Tubeside - Water

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN
 Design location on file at WESTINGHOUSE ELECTRIC CORPORATION, PITTSBURGH, PA.
 Stress analysis report on file at JOSEPH OAT CORPORATION, CAMDEN, NEW JERSEY
 Design specifications certified by G. A. Cafola Prof. Reg. State PA. Reg. No. 11223-E
 Stress analysis report certified by Krishna Pal Singh Prof. Reg. State PA. Reg. No. 20904-E

We certify that the calculations made in this report are correct and that this nuclear vessel complies to the rules of construction of the ASME Code, Section III.
 Date Nov 19 19 76 Signed Joseph Oat Corp. By John J. ...
 (Manufacturer) (Inspector)

Certificate of authorization Expires August 23, 1979 Certificate of Authorization No. 1458

CERTIFICATE OF SHOP INSPECTION
 VESSEL NAME BY JOSEPH OAT CORPORATION at CAMDEN, NEW JERSEY
 I, the undersigned, holding a valid commission issued by the Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of PA. and employed by N. S. B. L. & I. CO.
 have inspected the pressure vessel described in this Manufacturer's Data Report (M.D.R.) No. _____ and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with the ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind resulting from or connected with the inspection.
 Date Nov 19 1976 Inspector [Signature] Manufacturer [Signature]

CERTIFICATE OF FIELD ASSEMBLY INSPECTION
 I, the undersigned, holding a valid commission issued by the Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____
 have inspected the pressure vessel described in this Manufacturer's Data Report (M.D.R.) No. _____ 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. The pressure vessel was inspected and found to comply with the ASME Code, Section III.
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind resulting from or connected with the inspection.
 Date _____ Inspector _____ Manufacturer _____

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 11-01-90
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# 907468
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by: DLCO - Maintenance Dept. 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 77 Edition S'79 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)
2SWS-1038	Henry Vogt Machine	11-214959	-----	E-48319	1983	Repaired	Yes
Disc	Vogt	ESM	-----	-----	1983	Removed	Yes

7. Description of Work Valve disc was removed per TER 5837

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 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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG I Date Nov. 2 19 90
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 Sept. 4 to Nov. 2, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Inspector's Signature Commissions NB 86316 PA 2248
National Board, State, Province, and Endorsements

Date Nov. 2 19 90

SERIAL NO: 11-214952
 MARK NO: J5WB-1038
 TYPE: VCS060-AZ-3
 COMMENTS:

Revised 10/13/81 Page 1 of 2

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 VOGT MACHINE Co., Louisville, KY
Name and Address of Manufacturer
 2. Manufactured for DUQUESNE LIGHT Co., Pittsburgh, PA
Name and Address of Purchaser or User
 3. Location of Installation BEAVER VALLEY Power Station - Unit #2, Shippingport, PA
Name and Address
 4. Pump or Valve Check Valve Nominal Size 2" Inlet 2" Outlet Size 2"

	1st Model No. or Type	2nd Model No. or Type	3rd Model No. or Type	4th Model No. or Type	5th Model No. or Type	6th Model No. or Type	7th Model No. or Type	8th Model No. or Type	9th Model No. or Type	10th Model No. or Type
(11)	Check	1-2-4954								
(12)		Date								
(13)		11-214952								
(14)		(See Attached Sheet)								
(15)										
(16)										
(17)										
(18)										
(19)										
(20)										

5. Small description of service for which equipment was designed

6. Design Conditions Pressure 1450 Temperature W or Valve Pressure Class 600 (1)

7. Cold Working Pressure see 100T

8. Pressure Rating Plates

Mark No.	Material Spec. No.	Manufacturer	Remarks
1a) Castings			
		DUQUESNE LIGHT CO. STONE & WEBSTER ENG. BEAVER VALLEY UNIT 2	RECEIVED OCT SEP 17 1982 JOHN S. WISDOM ENGINEERING CORPORATION Inspection Station
	I.O. 13241 PD NO.	20V-44A	
	MARK NO.	VCS060-AZ-3	
	WISDOM'S NAME	VOGT MACHINE Co.	
2a) Forgings			
Body			
	K3902A	SA-105	VOGT
Flange			
	K3225	SA-105	VOGT
	K3871A	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 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 SPV-1 (Rev. 11-63)

Part No.	Material Spec. No.	Manufacturer	Remarks
W/ Bolting C&B SCREW B7	SA 193 Gr. B7	Texas Bolt	
W/ Other Parts U/Lac ERB	SA 479 T, 410 (Chemistry Only)	Vogt	

S. Hydrostatic test 2225 psi. Date Disposition 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 II, Div. 1, Edition 1977.

Addenda SUMMIT '79 Code Case No. 947 Date August 12, 1983

By Henry Vogt Machine Co. In Witness Whereof

Our ASME Certificate of Authorization No. 947 to use the E symbol expires 1/6/84

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. Stumbo

PE State PA Reg. No. PE-30264-E

Stress analysis certified by (1) _____

PE State _____ Reg. No. _____

(1) Signature not required. List names only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Commercial Union Ins. Co. of BOSTON, MA have inspected the pump, or valve, described in this Data Report on August 5, 1983 and state that to the best of my knowledge and belief, the Manufacturer has constructed 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 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 12, 1983 Inspector [Signature] Commission Pennsylvania #1676

Serial No., Shop, Part and Qty _____

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 11-01-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR # 907469
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCO - Maintenance Dept. 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, 1977 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-548	Henry Vogt Machine	5-214959	-----	E48319	1983	Repaired	Yes
Disc	Vogt	ESM	-----	-----	1983	Removed	Yes

7. Description of Work Valve disc was removed per TER 5837
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ ps 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 the 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 NGAM B.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG L Date 1/23/90 19 90
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 Sept 4, to 2/24/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Commission NC38-316 PH 3.2.2.5
National Board, State, Province, and Endorsements

Date 2/24/90 19 90

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

1. Manufactured by Henry Vogt Machine Co., Lewisville, NY
Name and Address of Manufacturer

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, Shippingport, PA
Name and Address

4. Pump or Valve Check Valve Nominal Inlet Size 2" Outlet Size 2"
Inlet Outlet

(1) Model No. or Type	(2) Certificate Holder's Serial No.	(3) Connection Registration No.	(4) Drawing No.	(5) Class	(6) Nat'l. Std. No.	(7) Year Built
(1) Check	1-214854	---	E-48519	3	---	1963
(2)	587a					
(3)	12-218999					
(4)	(See Attached Sheet)					
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. Small description of service for which equipment was designed

6. Design Conditions Pressure 1480 psi Temperature --- °F or Valve Pressure Class 600 (1)

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

8. Pressure Retaining Parts

Part No.	Material Sp. No.	Manufacturer	Remarks
(a) Castings			
		DUQUESNE LIGHT CO. 6106 E WENSTON ENE BEAVER VALLEY UNIT 2	RECEIVED OCT 17 1983 JOHN E. WHELAN ENGINEERING CORPORATION Successor Vendor
	I.O. 12341 P.O. NO.	20V-14A	
	MARK NO.	VC5000-2-8	
	VENDOR'S NAME	VOGT MACHINE Co.	
(b) Forgings			
Body			
E3907A	SA-105	VOGT	
Flange			
E3225	SA-105	VOGT	
E3871A	SA-105	VOGT	

(1) For manually operated valves only
 * Exceptional sheets in form of tabs, stretched or drawings may be used provided (1) size is 9-1/2" x 17", (2) information in Section 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.

FORM NPV-1 (Rev. 11-77)

Mark No.	Material Spec. No.	Manufacturer	Remarks
M1 Bolting C&E SCREW 87	SA 193 Gr. 87	Texas Bolt	
M2 Other Parts DLEs ESM	SA 479 T.410 (Chemistry Only)	Vogt	

B. Hydrostatic test 2225 psi. Dis. Differential test pressure 1430 psi.

20
20
20

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 II, Div. 1, Edition 1977.

Address: FOURTH '79 Code Case No. _____

Signed: Berry Vogt Machine Co. by [Signature] August 11, 1983

Our ASME Certificate of Authorization No. 947 is valid for II on special orders 1/6/84 (Date)

CERTIFICATION OF DESIGN

Design information on file at Berry 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) Signatures not required. List name only.

CERTIFICATE OF ENCP INSPECTION

I, the undersigned, holding 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.

on August 5, 1983 have inspected the pump, or valve, described in this Data Report on _____ 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 II.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the subject 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 associated with this inspection.

Date: August 11, 1983 Inspector: [Signature] Commission: Pennsylvania #1676

FORM NO. 229 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company Date 11-01-90
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 M.R.# 907470
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. 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 Edition, 77 Addenda, S179 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 83E-6'83A

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-1039	Henry Vogt Machine	6-214959	-----	E-48319	1983	Repaired	Yes
Disc	Vogt	ESM	-----	-----	1983	Removed	Yes

7. Description of Work Valve disc was removed per TER 5837

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 NFV-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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] Date Nov. 2 19 90
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 Sept. 7 to Nov. 2, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 N38316 P. 2245
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 2 19 90

ASME 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 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, Shippingport, PA
 (Name and Address)
 4. Pump or Valve Check Valve Nominal Inlet Size 2" Outlet Size 2"
 (Inlet) (Outlet)

(1) Serial No. or Type	(2) N Certificate Holder's Serial No.	(3) Canadian Registration No.	(4) Drawing No.	(5) Class	(6) Part No.	(7) Year Built
(11) Check	1-214959		E-48519	3		1963
(12)	None					
(13)	12-214959					
(14)	(See Attached Sheet)					
(15)						
(16)						
(17)						
(18)						

5. Brief description of service for which equipment was designed _____
 6. Design Conditions: Pressure 1450 psi Temperature _____ °F or Valve Pressure Class 600 (1)
 7. Cold Working Pressure _____ psi at 100°F
 8. Pressure Retaining Flanges

Part No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
		DUQUESNE LIGHT CO. STONE & WEBSTER ENG. BEAVER VALLEY UNIT 2	RECEIVED OCT SEP 17 1983 STONE & WEBSTER ESTIMATING DEPARTMENT Incomplete Review
		L.O. 13341 - P.O. NO. 20V-64A	
		MARK NO. VCS060-A3-9	
		WORKER'S NAME VOGT MACHINE CO.	
(b) Forgings			
Body			
E3902A	SA-105	VOGT	
Flange			
E3225	SA-105	VOGT	
E3871A	SA-105	VOGT	

(1) For manually operated valves only.
 * Supplemental sheets in form of tabs, 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 BPV-1 (Rev. 6-1-64)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(1) Bolting CBR SCREW B7	SA 193 Gr. B7	TEXAS BOLT	
(2) Other Parts Disc EEM	SA 478 Y.410 (Chemletty Only)	Voge	

6. Hydrostatic test 2225 psi. (Use differential test pressure) 1630 psi.

620

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 Maximum Permissible Working Pressure, Section II, Div. 1, Edition 1977.

Attended by EMMET '79 Date August 11, 1983
 Code Case No. _____

Signed Henry Vogt Machine Co. By [Signature]
(A Certified Member)

Our ASME Certificate of Authorization No. 947 is valid to the E extent specified expires 1/6/84
(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 (i) Stephen A. Shuman
 PE State PA Reg. No. PE-30264-E

Stress analysis certified by (ii) _____
 PE State _____ Reg. No. _____

(i) Signatures not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Commercial Union Ind. Co. of Boston, MA on August 5, 1983 have inspected the pump, or valve, described in this Data Report on August 5, 1983 and state that to the best of my knowledge and belief, the NC Certificate Holder has constructed this 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 equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any persons, injury or property damage or a loss of any kind arising from, or connected with, this inspection.

Date August 11, 1983
[Signature] Inspector
 Commission Pennsylvania #1676
Dist. Bd. Reg. Form 400-801

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

1. Owner Duquesne Light Company Date 11-01-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 907467
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Maintenance Dept. 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-216	Henry Vogt Machine	10-214959	-----	F-48319	1983	Repaired	Yes
Disc	Vogt	ESM	-----	-----	1983	Removed	Yes

7. Description of Work Valve Disc was removed per TER 5837

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 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 [Signature] Date Nov 2 19 90
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

inspected the components described in this Owner's Report during the period Sept. 7 to Nov. 2, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8316 PA 2278
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 2 19 90

SERIAL NO: 10-214553
 MARK NO: 25WS-316
 TYPE: VOS000-AZ-3
 COMMENTS:

Revised 10/13/81 Page 1 of 2

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 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, Shippingport, PA
(Name and Address)
 4. Pump or Valve Check Valve Nominal inlet Size 2" Outer Size 2"
(Inch) (Inch)

(1) Model No. or Type	(2) N Certificate Holder's Serial No.	(3) Certificate Registration No.	(4) Drawing No.	(5) Mark Ed. No.	(6) Year Built
(11) Check	1-214554		E-48519	3	1983
(12)	12-214939				
(13)	(See Attached Sheet)				
(14)					
(15)					
(16)					
(17)					
(18)					
(19)					
(20)					

5. Check description of service for which equipment was designed
 6. Design Conditions Pressure LABO Temperature Y or Value Pressure Class 600 (1)
 7. Cold Working Pressure as at 100°F
 8. Pressure Retaining Parts

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
		DUQUESNE LIGHT CO.	RECEIVED OCT SEP 17 1983 JOHN E. WEBSTER ENGINEERING CORPORATION Decisions Register
		STONE & WEBSTER ENG.	
		BEAVER VALLEY UNIT 2	
	LA 12041 P.O. NO. 26V-14A		
	MARK NO. VC5000-AZ-3		
	MANUFACTURER'S NAME VOGT MACHINE CO.		
(b) Forgings			
Body	E3902A	SA-105	VOGT
Socket	E3225	SA-105	VOGT
	E3871A	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.

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 11-01-90
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# 909329
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCO - Maintenance Dept. 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 10.77 Edition, S'79 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 Standard	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2SWS-95	Henry Vogt Machine	9-214959	-----	E-48319	1983	Repaired	Yes
Disc	Vogt	ESM	-----	-----	1983	Removed	Yes

7. Description of Work: Valve disc was removed

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 repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp per NGAM B.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG I Date Nov. 2 19 90
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

in this Owner's Report during the period Sept. 4 to Nov. 2, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB8316 PA2278
Inspector's Signature National Board, State, Prov. or, and Endorsements

Date Nov 2, 19 90

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
 Amended 10/13/81 Page 1 of 2

1. Manufactured by BERRY VOGT MACHINE CO., LOUISVILLE, KY
 (Name and Address of Certificate Holder)
 2. Manufactured by DUQUESNE LIGHT CO., PITTSBURGH, PA
 (Name and Address of Purchaser or Owner)
 3. Location of Installation BEVER VALLEY POWER STATION - Unit #2, Shippingport, PA
 (Name and Address)
 4. Pump or Valve Check Valve Nominal Inlet Size 2" Inlet Outer Size 2" Outlet

(1) Service No. or Type	(2) R Certificate Holder's Serial No.	(3) Canadian Registration No.	(4) Drawing No.	(5) In Class	(6) H. No. Ed. No.	(7) Mfg. Yr. Built
(11) Check	1-214854		E-48319	3		1963
(12)	EBFe					
(13)	12-214959					
(14)	(See Attached Sheet)					
(15)						
(16)						
(17)						
(18)						
(19)						

5. Short description of service for which equipment was designed
 6. Design Conditions Pressure 1450 Temp or Valve Pressure Class 600 (1)
 7. Cold Working Pressure per ASME
 8. Pressure Retaining Parts

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
		DUQUESNE LIGHT CO. STONE & WEBSTER ENG. BEVER VALLEY UNIT 2	RECEIVED SEP 17 1982 STONE & WEBSTER ENGINEERING CORPORATION Decatur, Georgia
	I.O. 13241 P.O. NO. 20V-14A		
	MARK NO. VC5060-AE-9		
	MANUFACTURER'S NAME VOGT MACHINE CO.		
(b) Forgings			
Body			
E3402A	SA-105	VOGT	
Flange			
E3225	SA-105	VOGT	
E3871A	SA-105	VOGT	

(1) For manually operated valves only.
 * Supplemental sheets in form of lists, sketches, 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 887V-1 (Rev. 8-77)

Item No.	Material Spec. No.	Manufacturer	Remarks
1. Bolting GSE SYSTEM 87	SA 193 Gr. 87	Texas Bolt	
16. Other Parts Disc ESK	SA 479 T.410 (Chemistry Only)	Vogt	

8. Hydrostatic test 2225 psi Date of hydrostatic test performed 10/30 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 II, Div. 1, Edition 1977
 Address: Summer '79 Code Case No. 947
 By: Henry Vogt Machine Co. Date: August 17, 1983
 Our ASME Certificate of Authorization No. 947 to use the ASME symbol expires 1/6/84

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. Shugart
 PE State PA Reg. No. FE-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
August 5, 1983 have inspected the pump, or valve, described in this Data Report on enclosed this 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 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 5, 1983 Inspector: [Signature] Commission: Pennsylvania #1676
 (Don't fill, Stamp, Press and Sign)

1620

FORM NIS-7 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company Date 11-01-90
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# 909330
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Maintenance Dept. 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, 1977 Edition, S-179 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)
25WS-697	Henry Vogt Machine	8-214959	-----	E-48319	1983	Repaired	Yes
Disc	Vogt	ESM	-----	-----	1983	Removed	Yes

7. Description of Work Valve disc was removed

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 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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG Date Nov. 2 19 90
Own- / or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts

have inspected the components described in the Owner's Report during the period Sept. 7 to Nov. 2, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Inspector's Signature Commission NB8316 PA 2278
National Board, State, Province, and Endorsements

Date Nov. 2 19 90

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 VOGT Machine Co., Louisville, KY
(Name and Address of Manufacturer)

2. Manufactured for Duquesne Light Co., Pittsburgh, PA
(Name and Address of Purchaser or User)

3. Location of installation: Beaver Valley Power Station - Unit #2, Shippingport, PA
(Name and Address)

4. Pump or Valve Check Valve Nominal inlet size 2" Order size 2"
(Inlet) (Outlet)

Let Model No.	(If R Certificate Holder's)	to Certificate	Let Drawing	Let Class	If Let/L	Let Year
Series No.	Serial	Registration	No.		Ed. No.	Built
or Type	No.	No.				
(1) Check	1-214959		E-48019	3		1983
(2)	Chrs					
(3)	12-214959					
(4)	(See Attached Sheet)					
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. Brief description of service for which equipment was designed

6. Design Conditions 500 psi or Vacuum Pressure Class 500 (1)

7. Cold Working Process ASME per ASME Code

8. Pressure Retaining Parts

Mark No.	Mark Let Spec. No.	Manufacturer	Remarks
Let Castings		DUQUESNE LIGHT CO. STONE & WEBSTER ENG. BEAVER VALLEY UNIT 2	RECEIVED OCT SEP 17 1983 STONE & WEBSTER Engineering Corporation Document Number
	L.O. 12241 - P.O. NO.	20V 6VA	
	MARK NO.	VC5060-AE-9	
	VENDOR'S MARK	VOGT MACHINE CO.	
Let Forgings			
Body	SA-105	VOGT	
R3902A			
Body C	SA-105	VOGT	
R3205			
R3871A	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 6 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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 10-20-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 909727
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Nuclear Construction 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 19 71 Edition, 1972 Add. Code 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)
2RSS-E21B	Joseph Oat Corporation	2189-1B	891	Vertical Heat Exch.	1976	Repaired	Yes

7. Description of Work Plugged and seal welded seventeen (17) tubes
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

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENR 1 Date Nov 13 19 90
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 Sept 1 to Nov 13, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 NB8316 PN2278
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 13, 19 90

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

40
 J. M. Sproy/colin
 10
 4/7

1. Manufactured by Joseph Ort 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. (2189-1B) () (Type, Jacketed, Heat Ex.) (Mfr. Serial No.) (Size & Size No.) Mar'l Bd. No. 891 Yr. Bld. 1976

4. Applicable ASME Code: Section III, Edition 1971, Addenda 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.

5. Shell Material SA240-304 s. 75,000 Nominal Thickness 3/8 in. Corrosion Allowance 0 in. Dia. 2 ft. 11 1/2 in. Length 36 ft. 7 3/8 in. S to S
(Kind & Spec. No.) (Min. of range specified)

6. Seams Long DBL Butt Welded H.T. No R.T. Complete Efficiency 100 %
DBL Butt Welded H.T. No R.T. Complete No. of Courses 5

Location	Thickness	Corve Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conave or Convave)
(a) _____	_____	_____	_____	_____	_____	_____	_____	_____
(b) _____	_____	_____	_____	_____	_____	_____	_____	_____

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

8. Jacket Closure (Describe or attach sketch)
 Drop Weight Pneumatic
 Cherry Inspect Hydrostatic or Test Pressure 408 psi
 Combination

9. Design Pressure 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 1/2 in. Attachment Welded
(Kind & Spec. No.) (Subject to press.) (Welded, Bolted)

Flanging 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. S to S
(Kind & Spec. No.) (Min. of range specified)

12. Seams Long DBL Butt Welded H.T. Yes R.T. Complete Efficiency 100 %
(Welded, Dbl., Single) (Yes or No)
DBL Butt Welded H.T. Yes R.T. Complete No. of Courses 1 Each End

Location	Thickness	Corve Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Conave or Convave)
(a) Top, bottom, ends <u>2 1/2</u>	_____	_____	_____	_____	_____	_____	<u>38 1/2</u>	<u>Flat</u>
(b) Channel _____	_____	_____	_____	_____	_____	_____	_____	_____
(c) Flanging _____	_____	_____	_____	_____	_____	_____	_____	_____

13. Studs (SA193-B7) (125,000) (3/4) (36) Each End/Nuts (SA194-2H) (3/4) (72) Each End

14. Fastenings, bolts used (a) (b) (c) Other fastening (Describe or attach sketch)
 Drop weight Pneumatic
 Cherry Inspect Hydrostatic or Test Pressure 225 psi
 Combination

15. Design Pressure 250 psi at 250 °F at temp. of °F.

1. Material Non-Treated
 2. Subject to material or treatment procedure with critical temperature when applicable.

Items below to be completed for all vessels where applicable.

25. Safety Valve Outlet Number _____ Size _____ Location in piping

26. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reference code	Attachment
Inlet, outlet	2 (1 ea)	16"	Pipe	SA53B	SCH 40	SA15-70	Welded
Drain	1	1"	Cplg	SA182-304	300#	None	Welded
Inlet, outlet	2 (1 ea)	12"	Pip	SA240-304	3/8"	SA240-304	Welded
		12"	Pipe	SA312-304	SCH 40	None	Welded

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

Openings, Handholes, No. _____ Size _____ Location _____

28. Support Skirt No. _____ Legs No. _____ Legs No. _____ Other _____ Attached _____

Remarks: Vessel is a recirculating spray cooler.

Shell inlet and outlet nozzles are conical.

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

MOAL 42'

(Brief description of service for which vessel was designed)

CERTIFICATION OF DESIGN

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

Drawings complete report on file at Stone & Webster Eng., Boston, Mass.

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

Drawings complete 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. Pat Corp By John A. Bensch

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

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

Inspector's Signature Walter J. Conway 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

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 MIS-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 11-10-90
One Oxford Centre - Schuylburg, PA 15279 Sheet 1 of 4
Name
Address

2. Plant Beaver Valley Power Station Unit No. 2
Shippingport, PA 15077 MWR#909416
Name Repair Organization P.C. No., Job No., etc.
Address

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

4. Identification of System Service Water

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-SWS-001-800-3	Schneider Power	2SR-30-06-GWS		ISO# CI 410-577	1986	Repaired	Yes

7. Description of Work 1"-Piping was cut for hydroblase cleaning and then welded back

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 N-5 data report 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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG. I Date Nov. 27 19 90
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 9/27/90 to 11/27/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Commission 18 8541 29116
Inspector's Signature National Board of Boiler, Pressure, and Engineering

Date 11/27 19 90

Service Water System (SWS) 2-58-30-06-545

**FORMER IC-6 DATA REPORT FOR INSTALLATION OR SHOP ASSEMBLY OF NUCLEAR FUEL
PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES*** CORRECTED COPY

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

1 Installed by: Schwab Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
Name and address of installer of component, component supports or appurtenances

2 Installed for: Duquesne Light Co., One Oxford Centre, 301 Grant Street, Pittsburgh, PA 15229
Name and address of purchaser or owner

3 If Certificate Holder having overall responsibility: Stone & Webster Engineering Corporation

4 Location of installation: Beaver Valley Power Station Unit #2, Shippingport, PA 15077

5 System Identification: 2-58-30-06-545 R/A 11, 10 11, 10 R/A R/A Year Installed: 1986
(1) Name of: (2) Drawing No. (3) Part No. (4) National

6 Nuclear Components and Appurtenances installed in the field by Welding (List each item and attach copies of N Certificate Holders' Data Reports and NPT Certificate Holders' Part of Data Report) **E78610210004**

(a) Components or Appurtenances	(b) Name of Certificate Holder	(c) Serial No.	(d) Cr. No.	(e) National	(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) Description Reg. No.	(e) National	(f) Year Built
See Attachment (2)			Welded Large Bore Piping Subassemblies Installed		
See Attachment (3)			Welded Large Bore Piping Subassemblies Installed		
See Attachment (4)			Shop Fabricated Small Bore Subassemblies Installed	R/A	
See Attachment (5)			Welded Small Bore Subassemblies Installed	R/A	

NO FURTHER ENTRIES

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Reg. Load Cases Data Sheet	(e) Canadian Reg. No.	(f) National	(g) Year Built
Component Supports are non-code, due to code effective date. SEE "Additional Material Excluding Welding Material" for "Component Support Integral Attachment Only."						

NO FURTHER ENTRIES

Additional Material Excluding Welding Material

(a) Name of Manufacturer	(b) National Specification	(c) Dimensions
See Attachment (6) "Component Supports Integral Attachment Only"		
See Attachment (7) "Additional Material"		

NO FURTHER ENTRIES

Note: The following shortened company names are used in this report:
 SWEC: Stone & Webster Engineering Corp.
 SPC: Schwab Power Corp.
 HSB & I CO.: Hartford Steam Boiler Inspection & Insurance Company
 PPC: Power Piping Company

7. All Installations Completed

See Attachment (8) "Description of Installation Performance"
 See Attachment (9) "Description of Installation Performance"

Prepared by

8. Completion of Installation Performance

See Attachment (10) "Description of Installation Performance"
 NO FURTHER ENTRIES

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

* Supplemental sheets in form of notes, sketches, or drawings may be used provided (1) one is 8-1/2 in. x 11 in., (2) information on sheets 1 through 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and the number of sheets is reported at the top of the form PER SHEET 2 of 41 "CERTIFICATION OF DESIGN..." Factsheet.

CERTIFICATION OF DESIGN FOR PIPING SYSTEM IN "ALL"

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 specifications can be had by Mr. A. J. Florento, Mr. State Pennsylvania
 Reg. No. 032366E
 Design Report certified by "A stress report is not req'd" by State N/A
 Reg. No. for class 2 or 3 piping systems. # SEE ATTACHMENT (11) "System Working & Design, Pressure Temperature & Hydrostatic/Pneumatic Tests"
 (1) Signature not required List name only
 Design Conditions of Piping Pressure _____ or Temperature _____

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 Winter '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. B-1824-1 is valid to us: the _____ Symbol expires 8-12-89
 Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.
 Date 11/3/86 Signed _____ (Certificate Holder)
 * SEE ATTACHMENT (12) "Later Code Editions & Addenda Involving and Being Cases Inward"

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 HSB & I Co. of Hartford, Ct. have inspected the installation of the items described in this Data Report on 9/26/86 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 9-29-86 Signed _____ (Inspector) Commission PA 2411-N (Nat'l Board, State Province and No.)

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system shall complete the following statement: Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.
 We certify the statements made by this report are correct and that the piping system conforms to the rules of construction of the ASME Code Section III, Division 1
 Certificate of Authorization expires 8-18-88 Certificate of Authorization No. B-1513-2
 Date 10/15/86 Signed Stone & Webster Engr. (Certificate Holder) John J. Powers

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 HSB & I Co. of Hartford, Connecticut have inspected the piping described in this Data Report on 10-15-86 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 10-15-86 Signed _____ (Inspector) Commissions PA 2053-N (Nat'l Board, State Province and No.)

N-5 DATA REPORT
ATTACHMENT 10

- 1. INSTALLED BY Schneider Power Corp., 125 Seventh St., Pittsburgh, PA 15222
- 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) 2-SR-30-06-SWS YEAR INSTALLED 1986

DESCRIPTION OF INSTALLATION PERFORMED

Continued from Sheet 1

Drawing No. and Rev.	Prepared By	Drawing No. and Rev.	Prepared By
410-574-4	SPC	410-612-5	SPC
410-573-4	SPC	101942-0E	PPC & SPC
410-572-5	SPC	101988-0D	PPC & SPC
410-615-5	SPC	101943-0F	PPC & SPC
410-604-6	SPC	101908-0L	PPC & SPC
410-605-6	SPC	410-603-6	SPC
410-600-6	SPC	101909-0E	PPC & SPC
410-609-7	SPC	109915-1H	PPC & SPC
410-613-7	SPC	120707-2V	PPC & SPC
410-570-5	SPC	175902-1E	PPC & SPC
410-614-5	SPC	101992-0E	PPC & SPC
410-576-6	SPC	175901-1D	PPC & SPC
410-575-6 <i>6 of 6</i>	SPC	101941-0F	PPC & SPC
410-577-6	SPC	109914-2H	PPC & SPC
101916-0H	PPC & SPC	410-571-5	SPC
101917-0E	PPC & SPC	101944-0V	PPC & SPC

Revision level Control Drawings designated as "AC" have been reconciled with the control drawing revision listed and have no impact on the ASME III Code fabrication/ installation delineated in this N-5 data report. *SPC 5-08-86 10-13-86*

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 2/11/86 Schneider Power Corp. Signed [Signature]
 Date 2/11/86 [Signature] Commissioned [Signature]
 Date 2/11/86 Stone & Webster Eng. Corp. Signed [Signature]
 Date 2/11/86 [Signature] Commissioned [Signature]

N-5 DATA REPORT
ATTACHMENT 12

2-SR-30-06-SWS

Sheet 41 Of 41

1 INSTALLED BY Schnelder Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer or Mfrs. Components, and Addendums)

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) 2-SR-30-06-SWS YEAR INSTALLED 1986
(Mfr. Serial No.)

Continued from Sheet 2

LATER CODE EDITION(S) AND ADDENDA(S) INVOKED, AND CODE CASES INVOKED

Later Edition(s)/Addenda(s) of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, invoked for use during Plant construction. As authorized by the Design Specification, material may have been procured and certified to later Editions/Addenda of the ASME Code. The specific Edition/Addenda to which the material was procured and certified is identified on the Certified Material Test Report or Certificate of Compliance furnished with the material and referenced on Attachment (7) to this N-5 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	HB/NC/ND	4427-1	2BVS-920
1980	Winter 1982	NCA	8000	2BVS-920
1974	Summer 1976	NX	4435	2BVS-920
1980	Summer 1981	NCA	8240(b)	2BVS-920
1974	N/A	HB/NC/WD	3641.1	2BVS-920
1977	Summer 1978	NC/WD	3643.1	2BVS-939
1977	Summer 1978	NC/WD	3643.3	2BVS-939
1983	Summer 1983	Appendix V	N/A	2BVS-920
1974	N/A	ND	4231.2	2BVS-920
1983	N/A	HB	6111	2BVS-920
1980	Summer 1981	NX	6211	2BVS-920
1980	Summer 1980	NCA	1273	2BVS-920
1983	Winter 1983	NC/ND	4436	2BVS-920

NO FURTHER ENTRIES

Code Case(s) invoked for installation or testing

Code Case Number	Authorizing Document(s)	Code Case Number	Authorizing Document(s)
N-224		N-275	
N-224	2BVS-920	N-292	2BVS-920
N-32-3	2BVS-920	1606-1	2BVS-920
	2BVS-920	N-392	2BVS-939
			2BVS-939

NO FURTHER ENTRIES

Continued on Sheet N/A Date 9/15/86 Schnelder Power Corp. Signed [Signature] 9/15/86
(N/A Certificate holder)
 Date 9/29/86 [Signature] Commissions
(API Signature)
 Date 10/5/86 Stone & Webster Eng. Corp. Signed [Signature]
(N/A Certificate holder)
 Date 10-15-86 [Signature] Commissions
(API Signature)

N-5 DATA REPORT
ATTACHMENT 7

1. INSTALLED BY Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of N-5 Components and Appliances)
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-30-06-SWS YEAR INSTALLED 1986
(Ref. Serial No.)

Continued from Sheet 25

ADDITIONAL MATERIAL

SWEC as the N Certificate Holder accepting overall Code responsibility and subcontracting installation to appropriate NA Certificate Holders retains primary Code responsibility for material purchased by SWEC and provided to installers at Beaver Valley Unit 2. In satisfying this responsibility, SWEC performs and documents inspections and documentation reviews required to establish Code acceptance of the material. Installers are responsible for verifying SWEC acceptance of the material and for assuring the use of specified, properly identified and undamaged material.

(A) Item No.	(B) Isometric No. & Isometric Item No.	(C) Additional Material Identification Including Dimensions	(D) Material Description Specification, Heat No./Heat Code (See Manuf. Data Package for Manuf. Info.)
97	410-577 (ITEM#1, 2, 4, 6)	1" PIPE	SCH. 80 SMLS. SA106 GR. B HT#W41018
98	410-577 (ITEM#3, 5, 7)	1" 90° ELBOW	F. S. S/W 3000# SA105 HT#W265
99	410-577 (ITEM#11)	1" F. P.E.	SCH. 80 SMLS. SA106 GR. B HT#E48583
100	410-577 (ITEM#12, 13)	1" 90° ELBOW	F. S. S/W 3000# SA105 HT#B8
101	410-575 (ITEM#2, 5, 7, 9, 12)	1" 90° ELBOW	F. S. S/W 3000# SA105 HT#B8
102	410-575 (ITEM#4, 8, 10)	1" PIPE	SCH. 80 SMLS. SA106 GR. B HT#E48995
103	410-575 (ITEM#6)	1" PIPE	SCH. 80 SMLS. SA106 GR. B HT#E48962
104	410-575 (ITEM#11)	1" PIPE	SCH. 80 SMLS. SA106 GR. B HT#E48943
105	101908 (ITEM#3)	3/4" CUPOLET	F. S. S/W 3000# SA105 HT#E2F
106	101908 (ITEM#SWS-188-5C3, SWS-168-2C, P-13758)	12" PIPE	STD. WT. SMLS. SA106 GR. B HT#W93143
107	101908 (ITEM#4)	3/4" PIPE	SCH. 80 SMLS. SA106 GR. B HT#W60172
108	101908 (ITEM#8)	3/4" 90° ELBOW	F. S. S/W 3000# SA105 HT#AF-5

Continued on Sheet 27

Date 9/15/86 Schneider Power Corp. N-5 Certificate Holder
 Date 9/20/86 [Signature] N-5 Inspector
 Date 11/15/86 Stone & Webster Eng. Corp. Signed
 Date 11-15-86 [Signature] Commissioned
(Ref. Name, Title 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 11-10-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR#909415
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DlCo - Nuclear Construction 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 10 71 Edition, 1972 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)
2-SWS-001 -798-3	Schneider Power	2SR-30-06 -SWS	-----	ISO# CI 410-573	1986	Repaired	Yes

7. Description of Work: 1" Piping was cut for hydrolase cleaning and then welded back

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-5 Data Report 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 III 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 Thomas J. White ENG-1 Date Nov. 27 19 90
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 7/27/90 to 11/27/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Thomas R. Smith Commission No. 8471 PA 226
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27 19 90

Service Meter System (SMS) 2-SR-30-06-SMS
FORM N-6 DATA REPORT FOR INSTALLATION OR SHOP ASSEMBLY OF NUCLEAR POWER PLANT COMPONENTS, COMPONENT SUPPORTS, AND APPURTENANCES* CORRECTED COPY

* 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
Name and address of installer of equipment, component supports or appurtenances
- 2 Installed for Duquesne Light Co., One Oxford Centre, 301 Grant Street., Pittsburgh, PA 15279
Name and address of purchaser or owner
- 3 N Certificate Holder having overall responsibility Stone & Webster Engineering Corporation
Name and address of N Certificate Holder
- 4 Location of installation Deer Valley Power Station Unit #2, Shippensburg, PA 15077
Name and address of location
- 5 System Identification 2-SR-30-06-SMS R/A N/A 10 N/A N/A Year Installed 1986
(a) Serial No. (b) Drawing No. (c) Reg. No. (d) Bd. No. (e) Year Built

6 Nuclear Components and Appurtenances installed in the field by Welding (List each item and attach copies of N Certificate Holders Data Reports and NPT Certificate Holders Partial Data Reports) **E78610210004**

(a) Components or Appurtenances	(b) Name	(c) Serial No	(d) Connection Reg. No	(e) Material Bd. No	(f) Year Built
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See Attachment (1) "Parts, Components & Appurtenances"
 NO FURTHER ENTRIES

Piping System Installation

(a) Piping Subassembly	(b) Name of Certificate Holder	(c) Serial No	(d) Connection Reg. No	(e) Material Bd. No	(f) Year Built
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- See Attachment (2) "Shop Fabricated Large Bore Piping Subassemblies Installed"
 See Attachment (3) "Field Modified Large Bore Subassemblies Installed"
 See Attachment (4) "Shop Fabricated Small Bore Subassemblies Installed" N/A
 See Attachment (5) "Field Modified Small Bore Subassemblies Installed" N/A
 NO FURTHER ENTRIES

Component Support Installation

(a) Component Support No	(b) Name of Certificate Holder	(c) Serial No	(d) Design Reg. Load Cap. Data Sheet	(e) Connection Reg. No	(f) Material Bd. No	(g) Year Built
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Component supports are non-code, due to code effective date. SEE "Additional Material Excluding Welding Material" for "Component Support Integral Attachment Only."
 NO FURTHER ENTRIES

Additional Material Excluding Welding Material

(a) Name of Manufacturer	(b) Material Specification	(c) Dimensions
See Attachment (2) "Component Support Integral Attachment Only"		
See Attachment (2) "Additional Material"		

Note: The following shortened company names are used in this report:
 SWEC: Stone & Webster Engineering Corp.
 SPC: Schneider Power Corp.
 NSB & I CO.: Hartford Steam Boiler Inspection & Insurance Company
 PPC: Power Piping Company

7. (a) Installation of **Subassemblies**

See Attachment (1) "Parts, Components & Appurtenances"
 See Attachment (2) "Additional Material"
 NO FURTHER ENTRIES

(b) Description of Installation Performed
 See Attachment (10) "Description of Installation Performed"
 NO FURTHER ENTRIES

(c) Hydraulic Test (d) System Working Pressure (e) psi and Temp.

* Supplemental sheets in form of tags, sketches, or drawings may be used provided (1) size is 8-1/2 in. x 11 in., (2) information is listed through 8 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 PAGE SHEET 2 of 41 "CERTIFICATION OF DESIGN..." 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 specifications controlled by: A. J. Florante ME State Pennsylvania
 Reg. No. 032366E
 Design Report certified: A stress report is not req'd. # Stress: 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 _____ or Temperature _____

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.
 Address Date: Winter '72 & Code Case No. _____ Class: 3 and was performed in accordance with the documents listed in 7(a) above.
 Law: ASME Certificate of Authorization No. E-1824-1 to use the ASME Symbol number: B-12-89
 Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.
 Date: 9/26/86 Signed: [Signature] (Inspector)

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 MS&I Co., Hartford, Ct., have inspected the installation of the items described in this Data Report on 9-26-86 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 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: 9-29-86 Signed: [Signature] (Inspector) Commission: PA 2411 (Nat'l Board, State, Province and Reg.)

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization holder accepting overall responsibility for the piping system shall complete the following statement: Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.
 We certify the statements made by this report are correct and that the piping system conforms to the rules of construction of the ASME Code Section III, Division 1.
 Certificate of Authorization expires 6-18-88. Certificate of Authorization No. E-1513-2
 Date: 10/15/86 Signed: Stone & Webster Eng., by John J. Pomeroy (Certificate Holder)

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by MS&I Co., Hartford, Connecticut, have inspected the piping described in this Data Report on 10-15-86 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: 10-15-86 Signed: Ray Welsh (Inspector) Commission: PA 2053 N (Nat'l Board, State, Province and Reg.)

N-6 DATA REPORT
ATTACHMENT 7

1. INSTALLED BY Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of Well 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-30-06-SWS YEAR INSTALLED 1986
(N.C. Serial No.)

Continued from Sheet 1

ADDITIONAL MATERIAL

SWEC as the N Certificate Holder accepting overall Code responsibility and subcontracting installation to appropriate NA Certificate Holders retains primary Code responsibility for material purchased by SWEC and provided to installers at Beaver Valley - Unit 2. In satisfying this responsibility, SWEC performs and documents inspections and documentation reviews required to establish Code acceptance of the material. Installers are responsible for verifying SWEC acceptance of the material and for assuring the use of specified, properly identified and undamaged material.

(A) Item No.	(B) Isometric No. & Isometric Item No.	(C) Additional Material Identification Including Dimensions	(D) Material Description Specification, Heat No./Heat Code (See Manuf. Data Package for Manuf. Info.)
1	410-574 (ITEM#1*, 3, 5, 4*)	1" PIPE	BCX.80 SMLS. SA106 GR. B HT#E48962
2	410-574 (ITEM#3*, 4)	1" COUPLING	F.S.S/W 3000# SA105 HT#0588
3	410-574 (ITEM#7)	1" PIPE	SCH.80 SMLS. SA106 GR. B HT#T66493
4	410-574 (ITEM#6)	1" 90° ELBOW	F.S.S/W 3000# SA105 HT#XB-1
5	410-574 (ITEM#8)	1" 45° ELBOW	F.S.S/W 3000# SA105 HT#N319
6	410-573 (ITEM#1, 2, 4, 6)	1" PIPE	SCH.80 SMLS. SA106 GR. B HT#E48995
7	410-573 (ITEM#3, 5, 7, 9, 12, 13)	1" 90° ELBOW	F.S.S/W 3000# SA105 HT#88
8	410-573 (ITEM#11)	1" PIPE	SCH.80 SMLS. SA106 GR. B HT#N41018
9	410-572 (ITEM#1)	1" PIPE	SCH.80 SMLS. SA106 GR. B HT#N41018
10	410-572 (ITEM#10)	1" PIPE	SCH.80 SMLS. SA106 GR. B HT#T66493
11	410-572 (ITEM#2)	1" 90° ELBOW	F.S. S/W 3000# SA105 HT#88
12	410-572 (ITEM#11)	1" 90° ELBOW	F.S. S/W 3000# SA105 HT#N345

* Material transferred from Iso 410-576.

Continued on Sheet 19

Date 9/15/86 Schneider Power Corp. Signed [Signature]
NA Certificate Holder

Date 9/29/86 [Signature] Commissioned [Signature]
NA Signatory

Date 10/15/86 Stone & Webster Eng. Corp. Signed [Signature]
NA Certificate Holder

Date 10-15-86 [Signature] Commissioned [Signature]
NA Signatory

RK 7/26/86

N-5 DATA REPORT
ATTACHMENT 10

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 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-30-06-SWS YEAR INSTALLED 1986

DESCRIPTION OF INSTALLATION PERFORMED

Continued from Sheet 1

Drawing No. and Rev.	Prepared By	Drawing No. and Rev.	Prepared By
410-574-4	SPC	410-612-5	SPC
410-573-4	SPC	101942-0E	PPC & SPC
410-572-3	SPC	101988-0B	PPC & SPC
410-615-5	SPC	101943-0F	PPC & SPC
410-604-6	SPC	101908-0L	PPC & SPC
410-603-6	SPC	410-603-6	SPC
410-608-6	SPC	101909-0L	PPC & SPC
410-609-7	SPC	109915-1E	PPC & SPC
410-613-7	SPC	120707-2F	PPC & SPC
410-570-5	SPC	175902-1E	PPC & SPC
410-614-5	SPC	101992-0E	PPC & SPC
410-576-6	SPC	175901-1B	PPC & SPC
410-575-6 <i>let</i>	SPC	101941-0F	PPC & SPC
410-577-6	SPC	109914-2E	PPC & SPC
101916-0H	PPC & SPC	410-571-5	SPC
101917-0E	PPC & SPC	101944-0F	PPC & SPC

Revision level: Control Drawings designated as "AC" have been reconciled with the control drawing revision listed and have no impact on the ASME III Code fabrication/ installation delineated in this S-5 data report. *SPC 5-86 10-13-86*

==== FURTHER ENTRIES ====

Continued on Sheet N/A

Date 2/25/86 Schneider Power Corp. Signed [Signature]
 Date 2/25/86 [Signature] Communicators [Signature]
 Date 2/25/86 Stone & Webster Eng. Corp. Signed [Signature]
 Date 2/25/86 [Signature] Communicators [Signature]

N-5 DATA REPORT
ATTACHMENT 12

2-SR-30-06-SWS

Sheet 41 Of 41

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 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)2-SR-30-06-SWS YEAR INSTALLED 1986

Continued from Sheet 2

LATER CODE EDITION(S) AND ADDENDA(S) INVOKED, AND CODE CASES INVOKED

Later Edition(s)/Addenda(s) of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, invoked for use during Plant construction. As authorized by the Design Specification, material may have been procured and certified to later Editions/Addenda of the ASME Code. The specific Edition/Addenda to which the material was procured and certified is identified on the Certified Material Test Report or Certificate of Compliance furnished with the material and referenced on Attachment (7) to this N-5 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	NB/NC/ND	4427-1	2BVS-920
1980	Winter 1982	NCA	8C00	2BVS-920
1974	Summer 1976	NX	4435	2BVS-920
1980	Summer 1981	NCA	8240(b)	2BVS-920
1974	N/A	NB/NC/ND	3641.1	2BVS-920
1977	Summer 1978	NC/ND	3643.1	2BVS-939
1977	Summer 1978	WC/WD	3643.3	2BVS-939
1983	Summer 1983	Appendix V	N/A	2BVS-939
1974	N/A	ND	4231.2	2BVS-920
1983	N/A	NB	6111	2BVS-920
1980	Summer 1981	NX	6211	2BVS-920
1980	Summer 1980	NCA	1273	2BVS-920
1983	Winter 1983	NC/WD	4436	2BVS-920

NO FURTHER ENTRIES

Code Case(s) Invoked for installation or testing

Code Case Number	Authorizing Document(s)	Code Case Number	Authorizing Document(s)
		N-275	2BVS-920
N-224	2BVS-920	N-292	2BVS-920
N-240	2BVS-920	1606-1	2BVS-939
N-32-3	2BVS-920	N-392	2BVS-939

NO FURTHER ENTRIES

Continued on Sheet N/A Date 9/15/86 Schneider Power Corp. Signed [Signature]
ASME Certificate Number
 Date 9/29/86 [Signature] Commissions [Signature]
ASME Signature
 Date 10/15/86 Stone & Webster Eng. Corp. Signed [Signature]
ASME Certificate Number
 Date 10-13-86 [Signature] Commissions [Signature]
ASME 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 11-10-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR# 909419
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuclear Construction 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'72A Addenda _____ Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1953E-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-sws-001-797-3	Schneider Power	2SR-30-06-SWS	-----	ISO# CI-410-571	1986	Repaired	Yes

7. Description of Work: 1" Piping was cut for hydrolase cleaning and then welded back.

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-5 Data report 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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG-1 Date Nov 27 19 90
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, hold 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 9/24/90 to 11/27/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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] 044 PA 1166
Inspector's Signature Commissions National Board, State, Province, and Endorsements

Date 11/27, 19 90

Service Water System (SWS) 2-58-30-06-SWS

FORM N-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 CORRECTED COPY
Sheet 1 of 41

1. Installed by: Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and address of installer of component, component supports or appurtenances)
2. Installed for: Duquesne Light Co., One Oxford Centre, 301 Grant Street, Pittsburgh, PA 15279
(Name and address of purchaser or owner)
3. N Certificate Holder having general responsibility: Stano & Webster Engineering Corporation
4. Location of installation: Bessemer Valley Power Station Unit #2, Shippingport, PA 15077
5. System identification: 2-58-30-06-SWS N/A 11, 10 N/A 10 N/A 1986
(See Serial No. Drawing No.)

6. Nuclear Components and Appurtenances installed in the field by Welding (List each item and attach copies of N Certificate Holders' Data Reports and NPT Certificate Holders' Partial Data Reports) **E78610210004**

(a) Component or Appurtenance	(b) Name of Certificate Holder	(c) Serial No.	(d) Condition Reg. No.	(e) National Bd. No.	(f) Year Built
-------------------------------	--------------------------------	----------------	------------------------	----------------------	----------------

See Attachment (1) "Parts, Components & Appurtenances"
 NO FURTHER ENTRIES

Piping System Installation

(a) Piping Subassembly	(b) Name of Certificate Holder	(c) Serial No.	(d) Condition Reg. No.	(e) National Bd. No.	(f) Year Built
See Attachment (2) "Shop Fabricated Large Bore Piping Subassemblies Installed"					
See Attachment (3) "Field Modified Large Bore Subassemblies Installed"					
See Attachment (4) "Shop Fabricated Small Bore Subassemblies Installed"					R/A
See Attachment (5) "Field Modified Small Bore Subassemblies Installed"					R/A

NO FURTHER ENTRIES

Component Support Installation

(a) Component Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Reg. Lead Code Data Sheet	(e) Condition Reg. No.	(f) National Bd. No.	(g) Year Built
Component supports are non-code, due to code effective date. SEE "Additional Material Excluding Welding Material" for "Component Support Integral Attachment Only."						

NO FURTHER ENTRIES

Additional Material Excluding Welding Material

(a) Name of Manufacturer	(b) Material Specification	(c) Dimensions
See Attachment (4) "Component Supports Integral Attachments Only"		
See Attachment (7) "Additional Material"		

Note: The following shortened company names are used in this report:
 SNEC: Stano & Webster Engineering Corp.
 SPC: Schneider Power Corp.
 HMBI & I CO.: Hartford Steam Boiler Inspection & Insurance Company
 PPC: Power Piping Company

7. In installation of components:
 See Attachment (6) "Description of Installation Performance"

8. Description of installation performance:
 See Attachment (9) "Description of Installation Performance"
 NO FURTHER ENTRIES

(a) Hydrostatic Test 2 (b) System Working Pressure 2 (c) psi and Temp. 2

* If photographs sheets in form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 in. x 11 in. (2) information is dated through 6 on this Data Report (3) included on each sheet, and (4) each sheet is numbered and the number of sheets is indicated at the top of the first page (SEE SHEET 2 of 41 "CERTIFICATE OF DESIGN..." features).

CORRECTED COPY

Service of System (SMS)

7-58-30-06-5MS

FORM N-4 (Rev. 8/68)

Sheet 2 of 4

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 specifications certified by: A. J. Florence PE State Pennsylvania
 Reg. No. 032366E
 Design Report certified by: A stress report is not req'd PE State N/A
 Reg. No. for class 2 or 3 piping systems. # SEE ATTACHMENT(11) "System Working & Design, Pressure Temperature & Hydrostatic/Pneumatic Tests"
 (1) Signature not required. List name only.
 Design Conditions of Piping: Pressure Temperature

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: Winter '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. B-1524-1 to use the SA Symbol expires 6-12-89.
 Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.
 Date 10/15/86 Signed: [Signature] Inspector
 * SEE ATTACHMENT(12) "ASME Code PART 1 & 2 Addenda, Examinations and Code Cases Issued"

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 HSB & I Co. of Hartford, CT, have inspected the installation of the items described in this Data Report on 9-26-86 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 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 9-29-86 Signed: [Signature] Inspector Commissions PA 2411 N (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system shall complete the following statement. Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.
 We certify the statements made by this report are correct and that the piping system conforms to the rules of construction of the ASME Code Section III, Division 1.
 Certificate of Authorization expires 6-12-89. Certificate of Authorization No. B-1513-2
 Date 10/15/86 Signed: Stone & Webster Eng., by [Signature] (N-Code Holder)

CERTIFICATE OF INSPECTION

I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB & I Co. of Hartford, Connecticut, have inspected the piping described in this Data Report on 10-15-86 and state that to the best of my knowledge and belief the Certificate of Authorization Holder has constructed the 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 10-15-86 Signed: [Signature] Inspector Commissions PA 2053 N (Nat'l Board, State, Province and No.)

N-5 DATA REPORT
ATTACHMENT 10

1. INSTALLED BY Schnelger Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
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-30-06-SVS YEAR INSTALLED 1986

DESCRIPTION OF INSTALLATION PERFORMED

Continued from Sheet 1

Drawing No. and Rev.	Prepared By	Drawing No. and Rev.	Prepared By
410-574-4	SPC	410-612-5	SPC
410-573-4	SPC	101942-0E	PPC & SPC
410-572-5	SPC	101988-0D	PPC & SPC
410-615-5	SPC	101943-0F	PPC & SPC
410-604-6	SPC	101908-0L	PPC & SPC
410-605-6	SPC	410-603-6	SPC
410-600-6	SPC	101909-0E	PPC & SPC
410-609-7	SPC	109915-1E	PPC & SPC
410-613-7	SPC	120707-2F	PPC & SPC
410-570-5	SPC	175902-1E	PPC & SPC
410-614-5	SPC	101992-0E	PPC & SPC
410-576-6	SPC	175901-1D	PPC & SPC
410-575-6 <i>of 6</i>	SPC	101941-0F	PPC & SPC
410-577-6	SPC	109914-2E	PPC & SPC
101916-0H	PPC & SPC	410-571-5	SPC
101917-0E	PPC & SPC	101944-0F	PPC & SPC

Revision Level Control Drawings designated as "LC" 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. *SPC* 10-13-86

NO FURTHER ENTRIES

Continued on Sheet N/A

Date 2/25/86 Schnelger Power Corp. Signed [Signature]
 Date 2/25/86 [Signature] Commissioned
 Date 10/15/86 Stone & Webster Eng. Corp. Signed [Signature]
 Date 2/25/86 [Signature] Commissioned

N-5 DATA REPORT
ATTACHMENT 12

- 1 INSTALLED BY Schnelder Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of Parts, Components, and Assemblies)
- 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 S (Serial No.) 2-SWS-2-SR-30-06-SWS YEAR INSTALLED 1986

Continued from Sheet 2

LATER CODE EDITION(S) AND ADDENDA(S) INVOKED, AND CODE CASES INVOKED

Later Edition(s)/Addenda(s) of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, invoked for use during Plant construction. As authorized by the Design Specification, material may have been procured and certified to later Editions/Addenda of the ASME Code. The specific Edition/Addenda to which the material was procured and certified is identified on the Certified Material Test Report or Certificate of Compliance furnished with the material and referenced on Attachment (7) to this N-5 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	NB/NC/ND	4427-1	2BVS-920
1980	Winter 1982	NCA	8000	2BVS-920
1974	Summer 1976	NX	4435	2BVS-920
1980	Summer 1981	NCA	8240(b)	2BVS-920
1974	N/A	NB/NC/ND	3641.1	2BVS-939
1977	Summer 1978	NC/ND	3643.1	2BVS-920
1977	Summer 1978	NC/ND	3643.3	2BVS-920
1983	Summer 1983	Appendix V	N/A	2BVS-920
1974	N/A	ND	4231.2	2BVS-920
1983	N/A	NB	6111	2BVS-920
1980	Summer 1981	NX	6211	2BVS-920
1980	Summer 1980	NCA	1273	2BVS-920
1983	Winter 1983	NC/ND	4436	2BVS-920

NO FURTHER ENTRIES

Code Case(s) invoked for installation or testing

Code Case Number	Authorizing Document(s)	Code Case Number	Authorizing Document(s)
		N-275	2BVS-920
N-224	2BVS-920	N-292	2BVS-920
N-210	2BVS-920	1606-1	2BVS-939
N-32-3	2BVS-920	N-392	2BVS-939

NO FURTHER ENTRIES

Continued on Sheet 71A Date 9/15/86 Schnelder Power Corp. Signed [Signature]
(N-5 Certificate Holder)
 Date 9/29/86 [Signature] Commissions [Signature]
(ASME Signature)
 Date 10/15/86 Stone & Webster Eng. Corp. Signed [Signature]
(N-5 Certificate Holder)
 Date 10/15/86 [Signature] Commissions [Signature]
(ASME Signature)

**N 6 DATA REPORT
ATTACHMENT 7**

1. INSTALLED BY Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Manufacturer of Parts, Components, and Assemblies)
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-30-06-SWS YEAR INSTALLED 1986
(Unit Serial No.)

Continued from Sheet 35

ADDITIONAL MATERIAL

SWEC as the N Certificate Holder accepting overall Code responsibility and subcontracting installation to appropriate N/A Certificate Holders retains primary Code responsibility for material purchased by SWEC and provided to installers at Beaver Valley - Unit 2. In satisfying this responsibility, SWEC performs and documents inspections and documentation reviews required to establish Code acceptance of the material. Installers are responsible for verifying SWEC acceptance of the material and for assuring the use of specified, properly identified and undamaged material.

(A)	(B)	(C)	(D)
Item No.	Isometric No. & Isometric Item No.	Additional Material Identification including Dimensions	Material Description Specification, Heat No./Heat Code (See Manuf. Data Package for Manuf. Info.)
221	101941 (ITEM#12)	4" 90° ELBOW	STD. WT. SMLS. BW SA234VFB HT#DG65
222	109914 (ITEM#1)	12" PIPE	STD. WT. SMLS. SA106 GR. B HT#L85456
223	109914 (ITEM#SWS-773-1)	4"x12" WELDOLET	STD. WT. F.S. SA105 (T) SWS-773-1 HT#S-28.
224	410-571 (ITEM#4, 6, 8, 10)	1" PIPE	SCH. 80 SMLS. SA106 GR. B. HT#E48962
225	410-571 (ITEM#5, 7, 9, 11)	1" 90° ELBOW	F.S.S/W 3000# SA105 HT#N265
226	410-571 (ITEM#12)	1" PIPE	SCH. 80 SMLS. SA106 GR. B HT#MA1018
227	410-571 (ITEM#13, 14)	1" 90° ELBOW	F.S.S/W 3000# SA105 HT#S
228	101944 (ITEM#2)	3/4" PIPE	SCH. 80 SMLS. SA106 GR. B HT#E32255
229	101944 (ITEM#4)	3/4" 90° ELBOW	F.S.S/W 3000# SA105 HT#OU
230	101944 (ITEM#5, 6, 8)	4" PIPE	STD. WT. SMLS SA106 GR. B HT#365212

*****NO OTHER ENTRIES*****

It shall be noted that Schneider Power Corporation shall maintain overall code responsibility for material purchased by SPC and installed as listed in P&ID 6760A at Beaver Valley - Unit 2. In satisfying this responsibility, SPC performed and documented inspections required to establish code acceptance via R&D 6760A.

(T) Indicated to be utilized for accessibility to the SWEC traceability program.

Continued on Sheet 3A Date 9/15/86 Schneider Power Corp. Signed [Signature]
N/A Certificate Holder
 Date 9/28/86 [Signature] Commissioned [Signature]
Asst. Director
 Date 10/27/86 Stone & Webster Eng. Corp. Signed [Signature]
N/A Certificate Holder
 Date 10/15/86 [Signature] Commissioned [Signature]
Asst. Director

FORM NIS-20 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Duquesne Light Company Date 11-10-90
Name
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 4
Address
 2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077 MWR#909420
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DLCO - Nuclear Construction 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 10 71 Edition W'72 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)
2-SWS-001 799-3	Schneider Power	2SR-30 06-SW ₂		ISO# CI 610-575	1986	Repaired	Yes

7. Description of Work: 1- Piping was cut to allow hydroblasting cleaning and then rewelded back

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-5 Data Report 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 NGAM 8.5 *ASME Section XI Repair/Replacement Program

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

Signed Ronald White ENG I Date Nov. 27 1990
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 9/24/90 to 11/27/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Commission MB8441 PAL166
Inspector's Signature National Board, State, Province, and Endorsement

Date 11/27 1990

Service Meter System (SMS) 2-SR-30-06-SMS

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

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
Name and address of installer of equipment, installation agency or manufacturer

2 Installed for Duquesne Light Co., One Oxford Centre, 301 Grand Street, Pittsburgh, PA 15279
Name and address of owner or user

3 A Certificate Holder having overall responsibility Stone & Webster Engineering Corporation
Name and address of Certificate Holder

4 Location of installation Beaver Valley Power Station Unit #2, Shippingport, PA 15077

5 System Identification 2-SR-30-06-SMS N/A 11.10 N/A N/A N/A N/A N/A Year Installed 1986
Form No. Drawing No. Reg. No. Div. No. Subdiv. No. Year Installed

6 Nuclear Components and Appurtenances installed in the field by Welding List each item and attach copies of N Certificate Holders Data Reports and NPT Certificate Holders Partial Data Reports **E78610210004**

(a) Components or Appurtenances	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No.	(e) National Div. No.	(f) Year Built
---------------------------------	--------------------------------	----------------	-----------------------	-----------------------	----------------

See Attachment (1) "Parts, Components & Appurtenances"
 NO FURTHER ENTRIES

Piping System Installation

(a) Piping Subassembly	(b) Name of Certificate Holder	(c) Serial No.	(d) Canadian Reg. No.	(e) National Div. No.	(f) Year Built
See Attachment (2) "Shop Fabricated Large Bore Piping Subassemblies Installed"					
See Attachment (3) "Field Modified Large Bore Subassemblies Installed"					
See Attachment (4) "Shop Fabricated Small Bore Subassemblies Installed"					N/A
See Attachment (5) "Field Modified Small Bore Subassemblies Installed"					N/A

NO FURTHER ENTRIES

Component Support Installation

(a) Component & Report No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Firm, Level Code, Data Sheet	(e) Canadian Reg. No.	(f) National Div. No.	(g) Year Built
Component supports are non-code, shop to code effective date. SEE "Additional Material Excluding Welding Material" for "Component Support Integral Attachment Only."						

NO FURTHER ENTRIES

Additional Material Excluding Welding Material

(a) Name of Manufacturer	(b) Material Specification	(c) Dimensions
See Attachment (6) "Component Supports Integral Attachment Only"		
See Attachment (7) "Additional Material"		

Note: The following shortened company names are used in this report:
 S&W: Stone & Webster Engineering Corp.
 SPC: Schneider Power Corp.
 M&I: M&I Co.; Hartford Steam Boiler Inspection & Rating Company
 DDC: Duquesne Light Company

3. Design

(a) Design Code: ASME III
 (b) Design Division: 1
 (c) Design Subdivision: 1
 (d) Design Section: 1
 (e) Design Code Part: 1
 (f) Design Code Section: 1
 (g) Design Code Subsection: 1
 (h) Design Code Paragraph: 1
 (i) Design Code Subparagraph: 1
 (j) Design Code Subsubparagraph: 1
 (k) Design Code Subsubsubparagraph: 1
 (l) Design Code Subsubsubsubparagraph: 1
 (m) Design Code Subsubsubsubsubparagraph: 1
 (n) Design Code Subsubsubsubsubsubparagraph: 1
 (o) Design Code Subsubsubsubsubsubsubparagraph: 1
 (p) Design Code Subsubsubsubsubsubsubsubparagraph: 1
 (q) Design Code Subsubsubsubsubsubsubsubsubparagraph: 1
 (r) Design Code Subsubsubsubsubsubsubsubsubsubparagraph: 1
 (s) Design Code Subsubsubsubsubsubsubsubsubsubsubparagraph: 1
 (t) Design Code Subsubsubsubsubsubsubsubsubsubsubsubparagraph: 1
 (u) Design Code Subsubsubsubsubsubsubsubsubsubsubsubsubparagraph: 1
 (v) Design Code Subsubsubsubsubsubsubsubsubsubsubsubsubsubparagraph: 1
 (w) Design Code Subsubsubsubsubsubsubsubsubsubsubsubsubsubsubparagraph: 1
 (x) Design Code Subsubsubsubsubsubsubsubsubsubsubsubsubsubsubsubparagraph: 1
 (y) Design Code Subsubsubsubsubsubsubsubsubsubsubsubsubsubsubsubsubparagraph: 1
 (z) Design Code Subsubsubsubsubsubsubsubsubsubsubsubsubsubsubsubsubsubparagraph: 1

* 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 on sheets 1 through 6 on this Data Report is included on each sheet, and (3) each sheet is numbered and the number of sheets is reported at the top of the form **FORM N-6** of 61 "CERTIFICATION OF DESIGN..." Part 3000.

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 specifications certified by: A. J. Florenta PE State Pennsylvania
 Reg. No. 032366E
 Design Report certified by: A stress report is not req'd PE State N/A
 Reg. No. for class 2 or 3 piping systems. # SEE ATTACHMENT (11) "System Marking & Design, Pressure Temperature & Hydrostatic/ Pneumatic Tests"
 (1) Signature not required. List name only.
 Design Conditions of Piping: Pressure, Discharge, Temperature

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 A, Edition, Addenda Date Winter '77 & Code Case No. and was performed in accordance with the documents noted in Title above.

Our ASME Certificate of Authorization No. B-1824-1 to use the MA Symbol expires 8-12-89
 Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.
 Date 9/29/86 Signed Scamiller, Peter Corp. (Date) (Signature)
 * SEE ATTACHMENT (12) "LATER CODE EDITIONS, LIMITED AND BULK CASES, LIMITED"

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 HSB & I Co. of Hartford, CT, have inspected the installation of the items described in the Data Report on 9-26-86 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 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 9-29-86 Signed [Signature] Commission PA2411 (Inspector) (N.B. Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE

Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system shall complete the following statement. Refer to ATTACHMENT (7) for material responsibilities and ATTACHMENT (11) for pressure test responsibilities.

We certify the statements made by this report are correct and that the piping system conforms to the rules of construction of the ASME Code Section III, Division 1.

Certificate of Authorization expires 8-18-88. Certificate of Authorization No. B-1512-2

Date 10/15/86 Signed Stone & Webster Engr. [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 or Province of Pennsylvania and employed by HSB & I Co. of Hartford, Connecticut have inspected the piping described in this Data Report on 10-15-86 and state that to the best of my knowledge and belief, the Certificate of Authorization Holder has constructed the installation in accordance with the ASME Code for Nuclear Power Plant Components.

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

Date 10-15-86 Signed [Signature] Commission PA 2052 N (Inspector) (N.B. Board, State, Province and No.)

N-6 DATA REPORT
ATTACHMENT 7

1. INSTALLED BY Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of N-6 Certificate and Assurances)
2. INSTALLED FOR DUQUESNE LIGHT COMPANY, ONE OXFORD CENT, PITTSBURGH, PENNSYLVANIA 15279
(Name and Address of Utility or Other Customer)
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-30-06-SWS YEAR INSTALLED 1986
(Name, Serial No.)

Continued from Sheet 25

ADDITIONAL MATERIAL

SWEC as the N Certificate Holder accepting overall Code responsibility and subcontracting installation to appropriate NA Certificate Holders retains primary Code responsibility for material purchased by SWEC and provided to installers at Beaver Valley - Unit 2. In satisfying this responsibility, SWEC performs and documents inspections and documentation reviews required to establish Code acceptance of the material. Installers are responsible for verifying SWEC acceptance of the material and for assuring the use of specified, properly identified and undamaged material.

(A) Item No.	(B) Isometric No. & Isometric Item No.	(C) Additional Material Identification including Dimensions	(D) Material Description Specification, Heat No./Heat Code (See Material Data Package for Material Info.)
97	410-577 (ITEM#1,2,4,6)	1" PIPE	SCR.80 SMLS. SA106 GR. B RT#M41018
98	410-577 (ITEM#3,5,7)	1" 90° ELBOW	F.S.S/W 3000# SA105 RT#M265
99	410-577 (ITEM#11)	1" PIPE	SCR.80 SMLS. SA106 GR. B RT#E48583
100	410-577 (ITEM#12,13)	1" 90° ELBOW	F.S.S/W 3000# SA105 RT#B8
101	410-575 (ITEM#2,5,7,9,12)	1" 90° ELBOW	F.S.S/W 3000# SA105 RT#B8
102	410-575 (ITEM#4,8,10)	1" PIPE	SCR.80 SMLS. SA106 GR. B RT#E48995
103	410-575 (ITEM#6)	1" PIPE	SCR.80 SMLS. SA106 GR. B RT#E48962
104	410-575 (ITEM#11)	1" PIPE	SCR.80 SMLS. SA106 GR. B RT#E48443
105	101908 (ITEM#3)	3/4" CUPOLET	F.S.S/W 3000# SA105 RT#E27
106	101908 (ITEM#SWS-188-5C3, SWS-188-2C, P-1375B)	12" PIPE	STD.WT. SMLS. SA106 GR. B RT#F73145
107	101908 (ITEM#4)	3/4" PIPE	SCR.80 SMLS. SA106 GR. B RT#M60122
108	101908 (ITEM#6)	3/4" 90° ELBOW	F.S.S/W 3000# SA105 RT#P-5

Continued on Sheet 27

Date 11/18/86 Stone & Webster Engineering Corp. Sign [Signature]
(N-6 Certificate Holder)

Date 11/18/86 [Signature] Commission [Signature]
(N-6 Inspector)

Date 11/18/86 St. Lawrence Energy, Inc. (S.L.E.I.) Signed [Signature]
(N-6 Inspector)

Date 11/18/86 [Signature] Commission [Signature]
(N-6 Inspector)

N-5 DATA REPORT
ATTACHMENT 10

- 1. INSTALLED BY Schneider Power Corp., 125 Seventh Street, Pittsburgh, PA
- 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.
Beaver Valley Power Station, Unit 2, Shippingport, PA 15077
- 4. LOCATION OF INSTALLATION: _____
- 5. SYSTEM IDENTIFICATION Service Water System (SWS) 2-SR-30-06-SWS YEAR INSTALLED 1986

DESCRIPTION OF INSTALLATION PERFORMED

Continued from Sheet 1

Drawing No. and Rev.	Prepared By	Drawing No. and Rev.	Prepared By
410-574-4	SPC	410-612-5	SPC
410-573-6	SPC	101942-0E	PPC & SPC
410-572-5	SPC	101988-0D	PPC & SPC
410-615-5	SPC	101943-0F	PPC & SPC
410-604-6	SPC	101908-0L	PPC & SPC
410-605-6	SPC	410-603-6	SPC
410-606-6	SPC	101909-0R	PPC & SPC
410-609-7	SPC	109915-1H	PPC & SPC
410-613-7	SPC	120707-2P	PPC & SPC
410-570-5	SPC	175902-1E	PPC & SPC
410-614-5	SPC	101952-0E	PPC & SPC
410-576-6	SPC	175901-1D	PPC & SPC
410-575-6 <i>6 of 6</i>	SPC	101941-0F	PPC & SPC
410-577-6	SPC	109914-2H	PPC & SPC
101916-0H	PPC & SPC	410-571-5	SPC
101917-0K	PPC & SPC	101944-0V	PPC & SPC

Revision level Control Drawings designated as "AC" have
 been reconciled with the control drawing revision list
 and have no impact on the ASME III Code Fabrication/
 installation delineated in this N-5 data report. *SPC*
 10-13-86

NO FURTHER ENTRIES

Continued on Sheet 31A

Date 9/15/86 Schneider Power Corp. Signed [Signature]
 Date 9/15/86 [Signature] Commissioned [Signature]
 Date 9/15/86 Stone & Webster Eng. Corp. Signed [Signature]
 Date 9/15/86 [Signature] Commissioned [Signature]

N-6 DATA REPORT
ATTACHMENT 12

1. INSTALLED BY Schnaidler Power Corp., 125 Seventh Street, Pittsburgh, PA 15222
(Name and Address of Installer of N-6 Components, and Assurances)
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-30-06-SWS YEAR INSTALLED 1986
(N-6 Serial No.)

Continued from Sheet 2

LATER CODE EDITION(S) AND ADDENDA(S) INVOKED, AND CODE CASES INVOKED

Later Edition(s)/Addenda(s) of the ASME Code for Nuclear Power Plant Components, Section III, Division 1, invoked for use during Plant construction. As authorized by the Design Specification, material may have been procured and certified to later Editions/Addenda of the ASME Code. The specific Edition/Addenda to which the material was procured and certified is identified on the Certified Material Test Report or Certificate of Compliance furnished with the material and referenced on Attachment (7) to this N-6 Data Report.

Edition	Addenda	Subsection	Paragraphs	Authorizing Document(s)
1980	Winter 1981	NB/NC/ND	4427-1	2BVS-920
1980	Winter 1982	NCA	80 0	2BVS-920
1974	Summer 1976	NI	4435	2BVS-920
1980	Summer 1981	NCA	8240(b)	2BVS-920
1974	N/A	NB/NC/ND	3641.1	2BVS-939
1977	Summer 1978	WC/WD	3643.1	2BVS-939
1977	Summer 1978	WC/WD	3643.3	2BVS-939
1983	Summer 1983	Appendix V	N/A	2BVS-920
1974	N/A	ND	4231.2	2BVS-920
1983	N/A	NB	6111	2BVS-920
1980	Summer 1981	NI	6211	2BVS-920
1980	Summer 1980	NCA	1273	2BVS-920
1983	Winter 1983	NC/ND	4436	2BVS-920

NO FURTHER ENTRIES

Code Case(s) invoked for installation or testing

Code Case Number	Authorizing Document(s)	Code Case Number	Authorizing Document(s)
		N-275	2BVS-920
N-224	2BVS-920	N-292	2BVS-920
N-240	2BVS-920	1606-1	2BVS-939
N-32-3	2BVS-920	N-392	2BVS-939

NO FURTHER ENTRIES

Continued on Sheet N/A Date 9/15/86 Schnaidler Power Corp. Signed [Signature]
(N-6 Certificate Number)
 Date 9/29/86 [Signature] Commissions 1A2Y11N
(N-6 Signature)
 Date 10/15/86 Stone & Webster Eng. Corp. Signed [Signature]
(N-6 Certificate Number)
 Date 10-15-86 [Signature] Commissions BR2052A
(N-6 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 11-12-90
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# 908172
Address Repair Organization P.O. No., Job No., etc

3. Work Performed by DlCo - Maintenance Dept. 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 Section III 10 7 Edition S'77 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)
2FWS-FCV488	Copes Vulcan	7310-952 55-1-2	795	B-Feed Reg Valv	1977	Repaired	Yes
Stud	Cardinal Industrial	-----	-----	HT#8868610	-----	Replacement	No
Nut	Cardinal Industrial	-----	-----	HT#32706	-----	Replacement	No

7. Description of Work: Replaced one (1) body to bonnet stud and nut

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program

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

Signed [Signature] ENG I Date Nov 29 19 90
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 _____ to _____, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Factory Mutual Systems

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

Date _____ 19 _____

FORM NFA-1 - (Rev. 4)

Mark No	Material Spec. No.	Manufacturer	Remarks
1st Bolt			
Studs Lot TL	ASME-SAI93	Republic	GR. B7
Nuts Lot A	ASME-SAI94	Allied Int.	GR. 2H
2nd Bolt			
Plug S/N 75-16	ASME-SAI82	Cartech	GR. F304

2. Hydrostatic Test 3250

CVI S/N 7310-95255-1-2

CERTIFICATION OF DESIGN

Information on file at Westinghouse Electric Corp., Nuclear Energy System
 Stress analysis report on file at Not Applicable
 Design specifications certified by Louis James Malandra, Prof. Eng. ME State PA Reg. No. 13868-E
 Stress analysis report consistent by Not Applicable, Prof. Eng. _____ State _____ Reg. No. _____

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

Dated Feb 27 19 77 Signed Copes-Vulcan, Inc J. H. Luthers
(Manufacturer)
 Certificate of Authorization No. N-826 expires June 17, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and in the State of Penna. and employed by Protection Mutual Ins. Co * at Park Ridge, Ill. have inspected the equipment described in this data report on 2-14 19 77 and state that in the best of my knowledge and belief, the manufacturer has constructed this equipment in accordance with the applicable portions 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.

Dated 2-14 19 77
G. A. Lemcke Commission Natl. Bd. # 3275
(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 11-12-90
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address MWR#908173
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Maintenance Dept. 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 Section 111.19.71 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)
2FWS-FCV498	Copes Vulcan	7310-95 255-1-3	803	C-Feed Reg. Valve	1977	Repaired	Yes
Stud	Cardinal Industrial	-----	-----	HT#8868610	----	Replacmnt	No
Nut	Cardinal Industrial	-----	-----	HT#32706	----	Replacmnt	No

7. Description of Work Replaced one (1) body to honner stud and nut
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 NGAM 8.5 "ASME Section XI Repair/Replacement Progr

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

Signed [Signature] ENG 1 Date Nov. 28 19 90
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 9/4/90 to 11/29/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this 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 Systems

[Signature] Commission NB 8441 PA 2266
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/29 19 90

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 November 13, 1990
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
2. Plant Beaver Valley Power Station Unit No. 2
Name
Chippingport, PA 15077
Address DCP 1589
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Nuclear Construction 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 Section III 19 71 Edition W'72 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*305	Kerotest	HAX-30-7	N/A	----	1981	repaired	Yes
2FWS*285	Kerotest	HAW-7-16	N/A	----	1981	repaired	Yes
2FWS*281	Kerotest	KAM-23-14	N/A	----	1981	repaired	Yes
2FWS*297	Kerotest	KAM-29-17	N/A	----	1981	repaired	Yes

7. Description of Work Replaced pipe and modified lines per DCP 1589

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: Modified lines 2-FWS-750-67-2, 2-FWS-750-63-2, 2-FWS-750-61-2,
and 2-FWS-750-65-2
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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Gordon A. Loxak Engineer II Date 11/16 19 90
Owner or Owner's Designated 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

in this Owner's Report during the period Sept. 4 to Nov. 16, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

G. Muehle Commission NB-8316 PA2248
Inspector's Signature National Board, State, Province, and Endorsement

Date Nov. 16, 1990

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 November 13, 1980
Name
One Oxford Centre - Pittsburgh, PA 15279
Address
 Sheet 3 of 3

2. Plant Beaver Valley Power Station Unit No. 2
Name
Shippingport, PA 15077
Address
DCP 1589
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DlCo - Nuclear Construction 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 Section III 19 71 Edition W'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)
2FWS*287	Kerotest	HAX-30-6	---	-----	1981	repaired	Yes
2FWS*283	Kerotest	KAM-28-6	---	-----	1981	repaired	Yes
2FWS*307	Kerotest	HAX-30-18	---	-----	1981	repaired	Yes
2FWS*299	Kerotest	KAM-30-1	---	-----	1981	repaired	Yes

7. Description of Work Replaced pipe and modified lines per DCP 1589

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: Modified lines 2-FWS-750-79-2, 2-FWS-750-77-2, 2-FWS-750-83-2,
2-FWS-750-81-2, and 2-FWS-750-913-2
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 NGAM 9.5 "ASME Section XI Repair/Replacement Program"

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

Signed Barbara A. Poirer, Engineer II Date 11/16 19 90
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

in this Owner's Report during the period Sept. 4 to Nov. 16, 1990 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Commission NR 8316 PA 2248
Inspector's Signature National Board, State, Province, and Endorsements

Date Nov. 16, 19 90

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 November 13, 1990
Name
One Oxford Centre - Pittsburgh, PA 15279
Address

2. Plant Beaver Valley Power Station Sheet 2 of 3
Name
Shippingport, PA 15077
Address Unit No. 2
DCP 1589
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DlCo - Nuclear Construction 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 Section III 18 71 Edition W'72 Addenda _____ Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 18 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*286	Kerotest	KAM-41-12	---	-----	1981	repaired	Yes
2FWS*306	Klein, Schanzlin, & Becker	3-620-18122913	48	-----	1989	repaired	Yes
2FWS*282	Klein, Schanzlin, & Becker	3-620-18122912	47	-----	1989	repaired	Yes
2FWS*298	Kerotest	HAW-5-16	---	-----	1981	repaired	Yes

7. Description of Work Replaced pipe and modified lines per DCP 1589

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: modified lines 2-FWS-750-71-2, 2-FWS-750-75-2, 2-FWS-750-69-2,
and 2-FWS-750-73-2

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Barbara A. Payne, Engineer II Date 11/16 19 90
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 Sept. 7 to Nov. 16, 1990, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Inspector's Signature
Commissions NB 8316 PA 2248
*Factory Mutual Systems
National Board, State, Province, and Endorsements

Date Nov. 16, 1990

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 09-28-90
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# 908693
Address Repair Organization P.O. No., Job No., etc.
 3. Work Performed by DLCO - Maintenance Dept. Type Code Symbol Stamp Not Applicable
Name Authorization No.
Shippingport, PA 15077 Expiration Date
Address

4. Identification of System Chemical and Volume Control System
 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 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)
2CHS-RV382A	Crosby Valve Co.	N56900-00-0069	726	RV-8121	1982	Repaired	Yes
Disc	Crosby	N90448-47-0221	----	-----	----	Replaced	Yes
Nozzle	Crosby	N90137-63-0247	----	-----	----	Replaced	Yes

7. Description of Work Replaced valves disc and nozzle

8. Tests Conducted: Hydrostatic Pneumatic Operating Pressure
 Other Pressure *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 NGAM 8.5 "ACME Section XI Repair/Replacement Program"

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

Signed [Signature] ENGR Date Nov. 27 19 90
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 9/24/90 to 11/17/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 468441 121166
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27 19 90

CROSBY

CROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

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

62-40C-1

DATA REPORT Safety and Relief Valve

1. Manufactured by Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
or to this Address

Model No. JB-13-TD-8R Order No. W9022548 Contract Date 3/28/80 National Board No. 726
Westinghouse Electric Corp., Nuclear Energy Systems

2. Manufactured For P.O. Box 353, Winsted, PA 15230 Order No. 546-CCS-183426-8R
Name and Address

3. Owner Duquesne Light Co. - Beaver Valley No. 2
Name and Address

4. Location of Plant Pennsylvania

5. Valve Identification RV-8121 Serial No. W54900-00-0069 Drawing No. DS-C-56900 Rev. A

Type Relief Orifice Size J Pipe Size --- Inlet 2 Outlet 3
Subm. Safety Relief Pilot, Power Actuated Inlet Inlet Inlet Inlet

6. Set Pressure (PSIG) 150 150 P
Liquid Temperature

Discharge Capacity 225 GPM Water @ 70 @ 10 % Overpressure --- Blowdown (PSIG) 10% S.P.

Hydrostatic Test (PSIG) Inlet 425 Complete ---

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

Class 2 Edition 1971, Addenda Date Winter 1972, Case No. ---

Pressure Containing or Pressure Retaining Components

	Serial No Identification	Material Specification Including Type or Grade
a. Castings		
Body	<u>W90135-57-0101</u>	<u>ASME SA351 Gr. CF8M</u>
Mounts	<u>W90449-45-0068</u>	<u>ASME SA216 Gr. WCB</u>
b. Nut Stems and Fringes		
Nut/Stem	<u>W90137-63-0247</u>	<u>ASME SA478 Type 316</u>
Inset Inners	<u>W90448-47-0221</u>	<u>ASME SA478 Type 316</u>
Washer	<u>W88634-59-0543</u>	<u>ASME SA193 Gr. B6</u>
Adjusting Bolt	<u>W88635-54-0276</u>	<u>ASME SA193 Gr. B6</u>
Washer	<u>W55102-51-0122</u>	<u>ASTM A193-73 Gr. B6</u> <u>ASME SA193 Gr. B6</u>

- a. Serial
- b. Make
- c. Other Parts such as Plant Components

Serial No. of
 Manufacturer
EX2605-011E

General Specification
 Including Type or Grade
API 5313-71 Type 316

Pressure Stud

02209

Pressure Nut

02293

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

Date 6/12/83 at PA Signed Crosby Valve & Gage Co. Manufacturer [Signature]

Certificate of Authorization No. 1878 expires September 30, 1983

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 ACHUTCH-BORSON FERRACE/FACTORY MUTUAL INSURANCE COMPANY have inspected the equipment described in this Data Report on 6-12-83 and assure 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 6-15-83 at PA
[Signature]
 (Inspector)

Factory Mutual System

Commission

MA 1878 PA 2439
 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 11-15-90
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# 909449
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Maintenance Dept. 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 S'73 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-1040	Dresser	H908AAD	-----	2"-5580W	1978	Repaired	Yes
Disc	Universal Cyclops	G-9502	-----	-----	-----	Removed	Yes

7. Description of Work Removed valves disc to increase flow thru system per temporary modification No. 02-90-90
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.

9 13 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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG I Date Nov 28 19 90
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. * of Norwood, Massachusetts have inspected the components described in the Owner's Report during the period 7/4/90 to 11/29/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions LB 8441 PA 2266
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/29 19 90

FORM NPV-1 (BACK)

MARKING	MATERIAL SPEC. NO.	MANUFACTURER	REMARKS
(S) DC-52 N-92047	SA193, Gr. B7 SA194, Gr. 2K	Texas Bolt Co. Texas Bolt Co.	Studs Nuts
(S) SILEN PARTS 832991 G-9502	ASTM A-276, Gr. 410 ASTM A-276, Gr. 410	Carpenter Technology Seat Universal Cyclops	Seat Valve
*See Below SEAT TESTED @ 1500 PSIG STUD TESTED @ 2175 PSIG			

8. INCHES (8.0) 5 PSI.

CERTIFICATE OF COMPLIANCE

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THAT THIS PUMP, VALVE, COMPONENTS [IN THE RULES OF CONSTRUCTION OF THE ASME CODE FOR NUCLEAR POWER PLANT COMPONENTS SECTION III, DIV. 1, EDITION 1975] ADDENDA SUMMIT 1973 CASE NO. N/A DATE 7-17-78

SIGNED Drewery I.V.I.D. BY [Signature] Principal Quality Assurance Engineer
(ASME CERTIFICATE HOLDER)

OUR ASME CERTIFICATE OF AUTHORIZATION NO. N-1746 IS USE THE N SYMBOL EXPIRES 5/20/80
(DATE)

CERTIFICATION OF DESIGN

DESIGN INFORMATION ON FILE AT Drewery Industries, Alexandria, La.
STRESS ANALYSIS REPORT (CLASS 1 ONLY) ON FILE AT _____

DESIGN SPECIFICATIONS CERTIFIED BY (1) Saruk A. Gopalani
PE STATE Pennsylvania REG. NO. 21956-C

STRESS ANALYSIS CERTIFIED BY (1) _____
PE STATE _____ REG. NO. _____

(1) SIGNATURE NOT REQUIRED. LIST NAME ONLY.

CERTIFICATE OF SHOP INSPECTION

I, THE INSPECTOR, 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 NATIONAL STEEL INDUSTRIES OF LOUISIANA HAVE INSPECTED THE PUMP, VALVE, COMPONENTS IN THIS DATA REPORT ON 7-19 AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE CERTIFICATE HOLDER HAS CONSTRUCTED THIS PUMP, VALVE, IN ACCORDANCE WITH THE ASME CODE SECTION III.

BY SIGNING THIS CERTIFICATE, NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EQUIPMENT DESCRIBED IN THIS DATA REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

DATE 7-19 IN LA
(INSPECTOR) [Signature]

COMMISSIONS La, 672
Pennsylvania WC 2458
(NAT'L OR 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 10-20-90
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# 908900
Repair Organization P.O. No., Job No., etc.

3. Work Performed By DLCo - Nuclear Construction 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 19 71 Edition S'72 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)
2RSS-E21C	Joseph Oat Corporation	2189-1C	892	Vertical Heat Exch.	1976	Repaired	Yes

7. Description of Work Plugged and seal welded three (3) tubes

8. Tests Conducted: Static 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

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 NGAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENG-X Date Nov 27 19 90
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 8/19/90 to 10/17/90 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NO 8741 PA 111
Inspector's Signature National Board, State, Province, and Endorsements

Date 11/27 19 90