

INSERVICE INSPECTION NINETY-DAY REPORT

BEAVER VALLEY POWER STATION UNIT 1

Outage 8 Year 1991

Inspection Term from 12/22/89 to 07/15/91

Issue date: 10/8/91

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

NRC Docket Number: 50-334

Reactor Supplier: Westinghouse Electric Corporation  
Commercial Service Date: September 30, 1976

Prepared by: Wesley A. Will Date: 9/4/91

Reviewed by: D. G. [Signature] Date: 9-4-91

Approved by: J. P. Noonan Date: 9-4-91

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

1. Owner Duquesne Light Company, One Oxford Centre, Pittsburgh, PA 15279  
(Name and Address of Owner)
2. Plant Beaver Valley Power Station, P.O. Box 4, Shippingport, PA 15077  
(Name and Address of Plant)
3. Plant Unit 1 4. Owner Certificate of Authorization (if required) 26-05000\*
5. Commercial Service Date 9/30/76 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	69103	B105642	21011
Reactor Vessel Closure Head	Combustion Engineering	69203	N/A	21011
Pressurizer	Westinghouse	1311	434676	68-50
Steam Generators	Westinghouse			
"A" Loop		1301	434597	68-45
"B" Loop		1302	434598	68-46
"C" Loop		1303	434599	68-47
"B" Reactor Coolant Pump	Westinghouse	2-618J931G01	N/A	N/A
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 Exchanger	Joseph Oat & Sons	1832-1	434682	368
Boron Injection Tank	Struthers Wells Corp.	N/A	434783	1374
Regenerative Heat Exchanger	Joseph Oat & Sons	1831-10	434686	438
Non-Regenerative Heat Exchanger	Joseph Oat & Sons	1830-1	434718	361
"2B" Recirculation Spray Pump	Bingham-Willamette Co.	290597	N/A	N/A
"A" Residual Heat Removal Pump	Ingersoll Rand	1170-20	N/A	N/A

\*Designates account number of arrangement with Authorized Inspection Agency to provide inspection services.

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 \_\_\_\_\_ to \_\_\_\_\_ 9. Inspection Interval from \_\_\_\_\_ to \_\_\_\_\_
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
11. Abstract of Conditions Noted
12. Abstract of Corrective Measures Recommended and Taken

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

Certificate of Authorization No. (if applicable) \_\_\_\_\_ Expiration Date \_\_\_\_\_

Date \_\_\_\_\_ 19 \_\_\_\_ Signed \_\_\_\_\_ By \_\_\_\_\_  
Owner

**CERTIFICATE OF INSERVICE INSPECTION**

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

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

Inspector's Signature \_\_\_\_\_ Commissions \_\_\_\_\_ National Board, State, Province, and Endorsements \_\_\_\_\_  
Date \_\_\_\_\_ 19 \_\_\_\_

FORM NIS-1 (Back)

8. Examination Dates 12/22/89 to 07/15/91 9. Inspection Interval from 11/21/87 to 11/21/97
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Appendices I, II
11. Abstract of Conditions Noted  
See Text
12. Abstract of Corrective Measures Recommended and Taken  
See Appendix III

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

Certificate of Authorization No. (if applicable) 26-05000 Expiration Date N/A

Date 9-4 19 91 Signed Duquesne Light Company By J.P. Noonan 9/4/91  
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 Ashworth Mutual of Norwood Mass. have inspected the components described in this Owner's Report during the period 8-26-90 to 10-1-91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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.P. Muehle Commissions NB 8316 PA 2248  
Inspector's Signature National Board, State, Province, and Endorsements  
Date Oct 7, 19 91

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3. Plant Unit 1 4. Owner Certificate of Authorization (if required): 26-05000\*
5. Commercial Service Date 9/30/76 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.
Valve RV-RC-551B.C	Target Rock	69C(MOD#)	N/A	N/A
Valve MOV-RC-586	Rockwell	7517(MOD#)	N/A	N/A
Valve MOV-RH-700	Copes/Vulcan	1404485CR(MOD#)	N/A	N/A
Valve MOV-RH-720A	Anchor/Darling	S350-WDD(MOD#)	N/A	N/A
Valve SI-52	Anchor/Darling	S350W(MOD#)	N/A	N/A
Valve SI-21	Velan	78704(MOD#)	N/A	N/A
Valve CH-32	Velan	78409(MOD#)	N/A	N/A
Valve MOV-CH-310	Velan	88418/3(MOD#)	N/A	N/A

\*Designates account number of arrangement with Authorized Inspection Agency to provide inspection services.

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Valve MOV-RC-586	Rockwell	7517(MOD#)	N/A	N/A
Valve MOV-RH-700	Copes/Vulcan	14G44BSER(MOD#)	N/A	N/A
Valve MOV-RH-720A	Anchor/Darling	S350-WDD(MOD#)	N/A	N/A
Valve S1-52	Anchor/Darling	S350W(MOD#)	N/A	N/A
Valve S1-21	Velan	78704(MOD#)	N/A	N/A
Valve CH-32	Velan	78409(MOD#)	N/A	N/A
Valve MOV-CH-310	Velan	88418/3(MOD#)	N/A	N/A

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### Outage Summary

During the Eighth Refueling Outage (8R) at the Beaver Valley Power Station, Unit 1, Inservice Inspection (ISI) exams were performed on Class 1, 2, and 3 components. This was the first outage in the second period of the second ten year interval.

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

### ASME XI Exams

1. Six hundred twelve (612) Class 1 exams were performed and are divided into four groups as follows:
  - a. Welds (piping and vessels)
    - Ultrasonic Exams - 13
    - Penetrant Exams - 90
    - Magnetic Particle - 1
  - b. Bolting
    - Ultrasonic Exams - 19
    - Magnetic Particle - 38
    - Visual Exams - 232
  - c. Supports
    - Visual Exams - 216
  - d. Three (3) visual exams were performed on vessel and valve interiors.
2. One hundred, forty eight (148) Class 2 exams were performed and are divided into three groups as follows:
  - a. Welds (piping, pumps, and vessels)
    - Ultrasonic Exams - 37
    - Penetrant Exams - 35
    - Magnetic Particle Exams - 28
    - Visual Exams - 18
  - b. Bolting
    - Ultrasonic Exams - 5
  - c. Supports
    - Visual Exams - 25
3. One hundred, thirty three (133) visual exams of Class 3 supports were performed and divided into two groups as follows:
  - a. Supports
    - Visual Exams - 67
  - b. Attachments
    - Visual Exams - 66

The ASME XI exams were performed by Duquesne Light Company and EBASCO NDE Technicians. These exams are listed in Appendices I and II.

Appendix I compiles those exams that have been credited towards fulfilling the Ten Year Plan requirements. Appendix II identifies baseline exams.

#### Pressure Testing

The Class 1 piping System Leakage Test and accompanying VT-2 exam were performed prior to plant start-up. Also, Class 2 and 3 system functional and system leakage tests were performed during the outage on various systems to fulfill the 40-month pressure testing requirement.

#### Steam Generator Tube Examination

One hundred percent of the in-service tubes were examined in the three generators. Results of the examinations and information on tube plugging are contained in Appendix V.

#### NRC Bulletin 88-09

All 50 Bottom Mounted Instrumentation (BMI) flux thimble tubes were examined with eddy current methodology employing multifrequency techniques by the Westinghouse Electric Corporation. Corrective action for 6 of 7 thimbles (removal from service or repositioning) was in accordance with Westinghouse letter DLW-91-130. See Appendix VI for the flux thimble examination summary.

#### Snubber Exams

Snubber exams were performed this outage in accordance with Technical Specification 3/4.7.12. The results of the exams are contained in the Unit 1 8R Snubber Outage Summary Report.

#### Deficiency Resolution

All recorded deficiencies on vessels, piping and supports were evaluated and reported by the Quality Services Inspection and Examination Department per administrative procedures. Appendix III is a disposition matrix identifying the rejectable indications found this outage.

#### NIS-2 Forms

Included as Appendix IV are the NIS-2 Forms associated with Repairs and Replacements made at EVPS-1.

APPENDIX I

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION =====	COMPONENT DESCRIPTION =====	NDE REPORT NUMBER =====	OUTAGE REMARKS =====
** ASME ITEM NUMBER/EXAM CATEGORY: B01.040 B-A			
* ISOMETRIC: E-001J RC-R-B-C-5	RVCH FLG CIRCUMFERENTIAL WELD	UT91059	UT RI(SLAG) SAT. EXAM'D FROM STUDHOLE 1 TO 19 MT91024
** ASME ITEM NUMBER/EXAM CATEGORY: B05.040 B-F			
* ISOMETRIC: 0999D DLW-PRESS-2-E-01	NOZZLE TO SAFE END WELD	UT91037 PT91042	
** ASME ITEM NUMBER/EXAM CATEGORY: B06.010 B-G-1			
* ISOMETRIC: E-001L			
RC-R-1-NUT-20	BOLTING	MT91027 MT91030	
RC-R-1-NUT-21	BOLTING	MT91027 MT91030	
RC-R-1-NUT-22	BOLTING	MT91027 MT91030	
RC-R-1-NUT-23	BOLTING	MT91027 MT91030	
RC-R-1-NUT-24	BOLTING	MT91027 MT91030	
RC-R-1-NUT-25	BOLTING	MT91027 MT91030	
RC-R-1-NUT-26	BOLTING	MT91027 MT91030	
RC-R-1-NUT-27	BOLTING	MT91027 MT91030	
RC-R-1-NUT-28	BOLTING	MT91027 MT91020	
RC-R-1-NUT-29	BOLTING	MT91022 MT91030	
RC-R-1-NUT-30	BOLTING	MT91022 MT91030	
RC-R-1-NUT-31	BOLTING	MT91025 MT91030	
RC-R-1-NUT-32	BOLTING	MT91022	
RC-R-1-NUT-33	BOLTING	MT91022	
RC-R-1-NUT-34	BOLTING	MT91022	
RC-R-1-NUT-35	BOLTING	MT91022	
RC-R-1-NUT-36	BOLTING	MT91025	
RC-R-1-NUT-37	BOLTING	MT91025	
RC-R-1-NUT-38	BOLTING	MT91022	

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTSIDE MARKS *****
** ASME ITEM NUMBER/EXAM CATEGORY: B06.030 B-G-1			
* ISOMETRIC: E-001L			
RC-R-1-STUD-20	BOLTING	UT91052 UT91058 MT91028	
RC-R-1-STUD-21	BOLTING	UT91052 UT91058 MT91028	
RC-R-1-STUD-22	BOLTING	UT91052 UT91058 MT91028	
RC-R-1-STUD-23	BOLTING	UT91052 UT91058 MT91028	
RC-R-1-STUD-24	BOLTING	UT91052 UT91058 MT91028	
RC-R-1-STUD-25	BOLTING	UT91052 UT91058 MT91028	
RC-R-1-STUD-26	BOLTING	UT91052 UT91058 MT91028	
RC-R-1-STUD-27	BOLTING	UT91052 UT91058 MT91028	
RC-R-1-STUD-28	BOLTING	UT91052 UT91058 MT91023	
RC-R-1-STUD-29	BOLTING	UT91052 UT91053 UT91054 MT91023	
RC-R-1-STUD-30	BOLTING	UT91052 UT91053 UT91054 MT91023	
RC-R-1-STUD-31	BOLTING	UT91052 UT91053 UT91054 MT91025	
RC-R-1-STUD-32	BOLTING	UT91052 UT91053 UT91054 MT91023	

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
89 NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
RC-R-1-STUD-33	BOLTING	UT91052 UT91053 UT91054	
RC-R-1-STUD-34	BOLTING	MT91023 UT91052 UT91053 UT91054	
RC-R-1-STUD-35	BOLTING	MT91023 UT91052 UT91053 UT91054	
RC-R-1-STUD-36	BOLTING	MT91023 UT91052 UT91053 UT91054	
RC-R-1-STUD-37	BOLTING	MT91025 UT91052 UT91053 UT91054	
RC-R-1-STUD-38	BOLTING	MT91025 UT91052 UT91053 UT91054 MT91023	

\*\* ASME ITEM NUMBER/EXAM CATEGORY: B06.050 B-G-1

\* ISOMETRIC: E-001L

RC-R-1-WASHER-20	BOLTING	VT91180
RC-R-1-WASHER-21	BOLTING	VT91180
RC-R-1-WASHER-22	BOLTING	VT91180
RC-R-1-WASHER-23	BOLTING	VT91180
RC-R-1-WASHER-24	BOLTING	VT91180
RC-R-1-WASHER-25	BOLTING	VT91180
RC-R-1-WASHER-26	BOLTING	VT91180
RC-R-1-WASHER-27	BOLTING	VT91180
RC-R-1-WASHER-28	BOLTING	VT91180
RC-R-1-WASHER-29	BOLTING	VT91175
RC-R-1-WASHER-30	BOLTING	VT91175
RC-R-1-WASHER-31	BOLTING	VT91177
RC-R-1-WASHER-32	BOLTING	VT91175
RC-R-1-WASHER-33	BOLTING	VT91175
RC-R-1-WASHER-34	BOLTING	VT91175
RC-R-1-WASHER-35	BOLTING	VT91175
RC-R-1-WASHER-36	BOLTING	VT91177
RC-R-1-WASHER-37	BOLTING	VT91177

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
90 DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
RC-R-1-WASHER-38	BOLTING	VT91175	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.020 B-G-2			
* ISOMETRIC: E-001P			
RC-TK-1-E-1	BOLTING	VT91189	
RC-TK-1-B-2	BOLTING	VT91189	
RC-TK-1-B-3	BOLTING	VT91189	
RC-TK-1-B-4	BOLTING	VT91189	
RC-TK-1-B-5	BOLTING	VT91189	
RC-TK-1-B-6	BOLTING	VT91189	
RC-TK-1-B-7	BOLTING	VT91189	
RC-TK-1-B-8	BOLTING	VT91189	
RC-TK-1-B-9	BOLTING	VT91189	
RC-TK-1-B-10	BOLTING	VT91189	
RC-TK-1-B-11	BOLTING	VT91189	
RC-TK-1-B-12	BOLTING	VT91189	
RC-TK-1-B-13	BOLTING	VT91189	
RC-TK-1-B-14	BOLTING	VT91189	
RC-TK-1-B-15	BOLTING	VT91189	
RC-TK-1-B-16	BOLTING	VT91189	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.030 B-G-2			
* ISOMETRIC: E-001M			
RC-E-1A-AH-1	BOLTING	VT91142	
RC-E-1A-AH-2	BOLTING	VT91142	
RC-E-1A-AH-3	BOLTING	VT91142	
RC-E-1A-AH-4	BOLTING	VT91142	
RC-E-1A-AH-5	BOLTING	VT91142	
RC-E-1A-AH-6	BOLTING	VT91142	
RC-E-1A-AH-7	BOLTING	VT91142	
RC-E-1A-AH-8	BOLTING	VT91142	
RC-E-1A-AH-9	BOLTING	VT91142	
RC-E-1A-AH-10	BOLTING	VT91142	
RC-E-1A-AH-11	BOLTING	VT91142	
RC-E-1A-AH-12	BOLTING	VT91142	
RC-E-1A-AH-13	BOLTING	VT91142	
RC-E-1A-AH-14	BOLTING	VT91142	
RC-E-1A-AH-15	BOLTING	VT91157	
RC-E-1A-AH-16	BOLTING	VT91142	
RC-E-1A-AC-1	BOLTING	VT91142	
RC-E-1A-AC-2	BOLTING	VT91142	
RC-E-1A-AC-3	BOLTING	VT91142	
RC-E-1A-AC-4	BOLTING	VT91142	
RC-E-1A-AC-5	BOLTING	VT91142	

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
RC-E-1A-AC-6	BOLTING	VT91142	
RC-E-1A-AC-7	BOLTING	VT91142	
RC-E-1A-AC-8	BOLTING	VT91142	
RC-F-1A-AC-9	BOLTING	VT91142	
RC-E-1A-AC-10	BOLTING	VT91142	
RC-E-1A-AC-11	BOLTING	VT91142	
RC-E-1A-AC-12	BOLTING	VT91142	
RC-E-1A-AC-13	BOLTING	VT91142	
RC-E-1A-AC-14	BOLTING	VT91142	
RC-E-1A-AC-15	BOLTING	VT91142	
RC-E-1A-AC-16	BOLTING	VT91142	
RC-E-1B-BH-1	BOLTING	VT91142	
RC-E-1B-BH-2	BOLTING	VT91142	
RC-E-1B-BH-3	BOLTING	VT91142	
RC-E-1B-BH-4	BOLTING	VT91142	
RC-E-1B-BH-6	BOLTING	VT91142	
RC-E-1B-BH-7	BOLTING	VT91142	
RC-E-1B-BH-8	BOLTING	VT91142	
RC-E-1B-BH-9	BOLTING	VT91142	
RC-E-1B-BH-10	BOLTING	VT91142	
RC-E-1B-BH-11	BOLTING	VT91142	
RC-E-1B-BH-12	BOLTING	VT91142	
RC-E-1B-BH-13	BOLTING	VT91142	
RC-E-1B-BH-14	BOLTING	VT91142	
RC-E-1B-BH-15	BOLTING	VT91142	
RC-E-1B-BH-16	BOLTING	VT91142	
RC-E-1B-BC-1	BOLTING	VT91142	
RC-E-1B-BC-2	BOLTING	VT91142	
RC-E-1B-BC-3	BOLTING	VT91142	
RC-E-1B-BC-4	BOLTING	VT91142	
RC-E-1B-BC-5	BOLTING	VT91142	
RC-E-1B-BC-6	BOLTING	VT91142	
RC-E-1B-BC-7	BOLTING	VT91142	
RC-E-1B-BC-8	BOLTING	VT91142	
RC-E-1B-BC-9	BOLTING	VT91142	
RC-E-1B-BL-10	BOLTING	VT91142	
RC-E-1B-BC-11	BOLTING	VT91142	
RC-E-1B-BC-12	BOLTING	VT91142	
RC-F-1B-BC-13	BOLTING	VT91142	
RC-E-1B-BC-14	BOLTING	VT91142	
RC-E-1B-BC-15	BOLTING	VT91142	
RC-E-1B-BC-16	BOLTING	VT91142	

\*\* ASME ITEM NUMBER/EXAM CATEGORY: B07.050 B-G-2



APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
89 NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0354B			
ORIFICE (10)-B-1	BOLTING	VT91094	UNSAT, DR639 MWR 912362. CLR REP MT91037
ORIFICE (10)-B-2	BOLTING	VT91094	UNSAT, DR639 MWR 912362. CLR REP MT91037
ORIFICE (10)-B-3	BOLTING	VT91094	UNSAT, DR639 MWR 912362. CLR REP MT91037
ORIFICE (10)-B-4	BOLTING	VT91094	UNSAT, DR639 MWR 912362. CLR REP MT91037
ORIFICE (10)-B-5	BOLTING	VT91094	UNSAT, DR639 MWR 912362. CLR REP MT91037
ORIFICE (10)-B-6	BOLTING	VT91094	UNSAT, DR639 MWR 912362. CLR REP MT91037
ORIFICE (10)-B-7	BOLTING	VT91094	UNSAT, DR639 MWR 912362. CLR REP MT91037
ORIFICE (10)-B-8	BOLTING	VT91094	UNSAT, DR639 MWR 912362. CLR REP MT91037
* ISOMETRIC: 0247A			
ORIFICE (9)-B-1	BOLTING	VT91092	
ORIFICE (9)-B-2	BOLTING	VT91092	
ORIFICE (9)-B-3	BOLTING	VT91092	
ORIFICE (9)-B-4	BOLTING	VT91092	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.060 B-Q-2			
* ISOMETRIC: E-001R			
RC-P-1B-B(S)-1	BOLTING	VT91128	
RC-P-1B-B(S)-2	BOLTING	VT91128	
RC-P-1B-B(S)-3	BOLTING	VT91128	
RC-P-1B-B(S)-4	BOLTING	VT91128	
RC-P-1B-B(S)-5	BOLTING	VT91128	
RC-P-1B-B(S)-6	BOLTING	VT91128	
RC-P-1B-B(S)-7	BOLTING	VT91128	
RC-P-1B-B(S)-8	BOLTING	VT91128	
RC-P-1B-B(S)-9	BOLTING	VT91128	
RC-P-1B-B(S)-10	BOLTING	VT91128	
RC-P-1B-B(S)-11	BOLTING	VT91128	
RC-P-1B-B(S)-12	BOLTING	VT91128	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.070 B-Q-2			
* ISOMETRIC: 0253A			
MOV-CH-310-B-1	VALVE BOLTING	VT91115	
MOV-CH-310-B-2	VALVE BOLTING	VT91115	
MOV-CH-310-B-3	VALVE BOLTING	VT91115	

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
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COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
*****	*****	*****	*****
MOV-CH-310-B-4	VALVE BOLTING	VT91115	
MOV-CH-310-B-5	VALVE BOLTING	VT91115	
MOV-CH-310-B-6	VALVE BOLTING	VT91115	
MOV-CH-310-B-7	VALVE BOLTING	VT91115	
MOV-CH-310-B-8	VALVE BOLTING	VT91115	
MOV-CH-310-B-9	VALVE BOLTING	VT91115	
MOV-CH-310-B-10	VALVE BOLTING	VT91115	
MOV-CH-310-B-11	VALVE BOLTING	VT91115	
MOV-CH-310-B-12	VALVE BOLTING	VT91115	
1CH-32-B-1	VALVE BOLTING	VT91093	THRD ENG ACC-AS-15 DR638
1CH-32-B-2	VALVE BOLTING	VT91093	
1CH-32-B-3	VALVE BOLTING	VT91093	
1CH-32-B-4	VALVE BOLTING	VT91093	THRD ENG ACC-AS-15 DR638
1CH-32-B-5	VALVE BOLTING	VT91093	
1CH-32-B-6	VALVE BOLTING	VT91093	
1CH-32-B-7	VALVE BOLTING	VT91093	
1CH-32-B-8	VALVE BOLTING	VT91093	
1CH-32-B-9	VALVE BOLTING	VT91093	
1CH-32-B-10	VALVE BOLTING	VT91093	
1CH-32-B-11	VALVE BOLTING	VT91093	
1CH-32-B-12	VALVE BOLTING	VT91093	
* ISOMETRIC: 0350B			
RV-RC-551B-B-1	VALVE BOLTING	VT91065	
RV-RC-551B-B-2	VALVE BOLTING	VT91065	
RV-RC-551E-B-3	VALVE BOLTING	VT91065	
RV-RC-551B-B-4	VALVE BOLTING	VT91065	
RV-RC-551B-B-5	VALVE BOLTING	VT91065	
RV-RC-551B-B-6	VALVE BOLTING	VT91065	
* ISOMETRIC: 0999B			
MOV-RC-586-B-1	VALVE BOLTING	VT91135	
MOV-RC-586-B-2	VALVE BOLTING	VT91135	
MOV-RC-586-B-3	VALVE BOLTING	VT91135	
MOV-RC-586-B-4	VALVE BOLTING	VT91135	
* ISOMETRIC: 0074A			
MOV-RH-700-B-1	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-2	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-3	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-4	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-5	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-6	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-7	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-8	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-9	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397

APPENDIX I COMPLETED CODE EXAMS

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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
MOV-RH-700-B-10	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-11	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-12	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-13	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-14	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-15	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
MOV-RH-700-B-16	VALVE BOLTING	VT91131	CLOSING DOCUMENT Q-12397
* ISOMETRIC: 0107A			
MOV-RH-720A-B-1	VALVE BOLTING	VT91134	CLOSING DOCUMENT Q-12403
MOV-RH-720A-B-2	VALVE BOLTING	VT91134	CLOSING DOCUMENT Q-12403
MOV-RH-720A-B-3	VALVE BOLTING	VT91134	CLOSING DOCUMENT Q-12403
MOV-RH-720A-B-4	VALVE BOLTING	VT91134	CLOSING DOCUMENT Q-12403
MOV-RH-720A-B-5	VALVE BOLTING	VT91134	CLOSING DOCUMENT Q-12403
MOV-RH-720A-B-6	VALVE BOLTING	VT91134	CLOSING DOCUMENT Q-12403
MOV-RH-720A-B-7	VALVE BOLTING	VT91134	
MOV-RH-720A-B-8	VALVE BOLTING	VT91134	
MOV-RH-720A-B-9	VALVE BOLTING	VT91134	DR 646->ACCEPT AS IS
MOV-RH-720A-B-10	VALVE BOLTING	VT91134	
MOV-RH-720A-B-11	VALVE BOLTING	VT91134	
MOV-RH-720A-B-12	VALVE BOLTING	VT91134	
MOV-RH-720A-B-13	VALVE BOLTING	VT91134	
MOV-RH-720A-B-14	VALVE BOLTING	VT91134	
MOV-RH-720A-B-15	VALVE BOLTING	VT91134	CLOSING DOCUMENT Q-12403
MOV-RH-720A-B-16	VALVE BOLTING	VT91134	CLOSING DOCUMENT Q-12403
* ISOMETRIC: 0107B			
1S1-52-B-1	VALVE BOLTING	VT91141	
1S1-52-B-2	VALVE BOLTING	VT91141	
1S1-52-B-3	VALVE BOLTING	VT91141	
1S1-52-B-4	VALVE BOLTING	VT91141	DR660->ACCEPT AS IS
1S1-52-B-5	VALVE BOLTING	VT91141	
1S1-52-B-6	VALVE BOLTING	VT91141	
1S1-52-B-7	VALVE BOLTING	VT91141	DR660->ACCEPT AS IS
1S1-52-B-8	VALVE BOLTING	VT91141	
1S1-52-B-9	VALVE BOLTING	VT91141	
1S1-52-B-10	VALVE BOLTING	VT91141	DR660->ACCEPT AS IS
1S1-52-B-11	VALVE BOLTING	VT91141	DR660->ACCEPT AS IS
1S1-52-B-12	VALVE BOLTING	VT91141	
1S1-52-B-13	VALVE BOLTING	VT91141	DR660->ACCEPT AS IS
1S1-52-B-14	VALVE BOLTING	VT91141	DR660->ACCEPT AS IS
1S1-52-B-15	VALVE BOLTING	VT91141	
1S1-52-B-16	VALVE BOLTING	VT91141	DR660->ACCEPT AS IS
* ISOMETRIC: 0220C			
1S1-21-B-1	VALVE BOLTING	VT91126	

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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
1S1-21-B-2	VALVE BOLTING	VT91126	
1S1-21-B-3	VALVE BOLTING	VT91126	
1S1-21-B-4	VALVE BOLTING	VT91126	
1S1-21-B-5	VALVE BOLTING	VT91126	
1S1-21-B-6	VALVE BOLTING	VT91126	
1S1-21-B-7	VALVE BOLTING	VT91126	
1S1-21-B-8	VALVE BOLTING	VT91126	
1S1-21-B-9	VALVE BOLTING	VT91126	
1S1-21-B-10	VALVE BOLTING	VT91126	
1S1-21-B-11	VALVE BOLTING	VT91126	
1S1-21-B-12	VALVE BOLTING	VT91126	
* ISOMETRIC: 0375F			
1S1-24-B-1	VALVE BOLTING	VT91127	
1S1-24-B-2	VALVE BOLTING	VT91127	
1S1-24-B-3	VALVE BOLTING	VT91127	
1S1-24-B-4	VALVE BOLTING	VT91127	
1S1-24-B-5	VALVE BOLTING	VT91127	
1S1-24-B-6	VALVE BOLTING	VT91127	
1S1-24-B-7	VALVE BOLTING	VT91127	
1S1-24-B-8	VALVE BOLTING	VT91127	
1S1-24-B-9	VALVE BOLTING	VT91127	
1S1-24-B-10	VALVE BOLTING	VT91127	
1S1-24-B-11	VALVE BOLTING	VT91127	
1S1-24-B-12	VALVE BOLTING	VT91127	
** ASME ITEM NUMBER/EXAM CATEGORY: B07.080 B-G-2			
* ISOMETRIC: E-001J			
CONOSEAL BOLT ASSEMBLY 47	BOLTS AND NUTS	VT91171	
CONOSEAL BOLT ASSEMBLY 49	BOLTS AND NUTS	VT91171	
CONOSEAL BOLT ASSEMBLY 51	BOLTS AND NUTS	VT91171	
CONOSEAL BOLT ASSEMBLY 53	BOLTS AND NUTS	VT91177	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.011 B-J			
* ISOMETRIC: 0348C			
RC-72-1-F-01	BUTT WELD	UT91042	
		PT91152	
RC-72-1-S-01	BUTT WELD	UT91143	
		PT91152	
RC-72-1-S-02	BUTT WELD	UT91044	
		PT91052	
* ISOMETRIC: 0999D			
DLW-PRESS-1-F-37	BUTT WELD	UT91060	

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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	E REPORT NUMBER *****	OUTAGE REMARKS *****
DLW-PRESS-2-F-38	BUTT WELD	PT91079 UT91061 PT91078	
DLW-PRESS-2-S-02	BUTT WELD	UT91062 PT91078	
DLW-PRESS-2-F-39	BUTT WELD	UT91038 PT91041	
* ISOMETRIC: L-001A DLW-LOOP1-4-S-01	BUTT WELD	UT91028 PT91040	
* ISOMETRIC: 0375F SI-73-B-F-10	BUTT WELD	UT91040 PT91045	PT UNSA. R640-ACC-FS-18
SI-73-B-S-01	BUTT WELD	UT91041 PT91045	
SI-73-B-F-11	BUTT WELD	UT91039 PT91045	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.012 B-J			
* ISOMETRIC: L-001A DLW-LOOP1-4-L-01	LONGITUDINAL ELBOW WELD	PT91036	
DLW-LOOP1-4-L-02	LONGITUDINAL ELBOW WELD	PT91036	
DLW-LOOP1-5-L-03	LONGITUDINAL ELBOW WELD	PT91036	
DLW-LOOP1-5-L-04	LONGITUDINAL ELBOW WELD	PT91036	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.021 B-J			
* ISOMETRIC: 0247A RC-P-1B-E-02	BUTT WELD	PT91083	
RC-P-1B-E-01	BUTT WELD	PT91083	
* ISOMETRIC: 0200C SI-134-3-F-04	BUTT WELD	PT91074	
SI-134-3-S-05	BUTT WELD	PT91074	
SI-134-3-S-03	BUTT WELD	PT91074	
* ISOMETRIC: 0268A CH-125-7B-S-05	PIPE WELD	PT91014 PT91123	
CH-125-7B-S-04	PIPE WELD	PT91014 PT91123	

APPENDIX I COMPLETED CODE EXAMS

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BVP'S UNIT 1 1991 OUTAGE  
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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0273B			
SI-81-9-S-04	PIPE WELD	PT91015	
SI-81-9C-S-13	PIPE WELD	PT91015	
SI-81-9C-S-14	PIPE WELD	PT91015	
SI-81-9C-S-15	PIPE WELD	PT91015	
* ISOMETRIC: 0275A			
SI-130-7A-S-02	PIPE WELD	PT91016	
SI-130-7A-S-01	PIPE WELD	PT91016	
SI-140-1D-S-05	PIPE WELD	PT91020	
SI-140-2-F-02	PIPE WELD	PT91020	
SI-140-2-S-07	PIPE WELD	PT91020	
SI-140-2-S-06	PIPE WELD	PT91020	
SI-140-2-S-04	PIPE WELD	PT91020	
SI-140-2A-S-03	PIPE WELD	PT91020	
SI-140-2A-S-02	PIPE WELD	PT91020	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.032 B-J			
* ISOMETRIC: L-001B			
DLW-LOOP1-S-S-02	BRANCH CONNECTION WELD	PT91034	
DLW-LOOP1-S-S-05	BRANCH CONNECTION WELD	PT91034	
* ISOMETRIC: L-002B			
DLW-LOOP2-7-S-03	BRANCH CONNECTION WELD	PT91047	
DLW-LOOP2-7-S-06	BRANCH CONNECTION WELD	PT91047	
** ASME ITEM NUMBER/EXAM CATEGORY: B09.040 B-J			
* ISOMETRIC: 0191A			
CH-140-3D-F-05	SOCKET WELD	PT91073	
CH-140-3D-F-5C	SOCKET WELD	PT91073	
CH-140-3E-F-5D	SOCKET WELD	PT91073	
* ISOMETRIC: 0244A			
CH-141-2-S-08	SOCKET WELD	PT91084	PT UNSAT DR687->MWR 912374. CLR REP PT91092
		PT91092	
CH-141-2-S-07	SOCKET WELD	PT91084	
CH-141-2-S-06	SOCKET WELD	PT91084	PT UNSAT DR687->MWR 912373. CLR REP PT91100
		PT91086	
		PT91092	
		PT91100	
CH-141-2-S-05	SOCKET WELD	PT91084	
JH-141-2-S-04	SOCKET WELD	PT91084	
CH-141-2-S-03	SOCKET WELD	PT91084	PT UNSAT DR687->MWR 912372. CLR REP PT91092
		PT91092	

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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
CH-141-2-S-01	SOCKET WELD	PT91084	PT UNSAT DR687->MWR 912371. CLR REP PT91091 PT91071
* ISOMETRIC: 0247A			
CH-97-5-S-02	SOCKET WELD	PT91081	
CH-97-5-S-01	SOCKET WELD	PT91081	PT UNSAT DR687->MWR 912370. CLR REP PT91844 PT91844
CH-97-6-F-8A	SOCKET WELD	PT91081	
CH-97-6-F-09	SOCKET WELD	PT91081	
CH-97-7-F-10	SOCKET WELD	PT91081	
CH-97-7-S-07	SOCKET WELD	PT91081	
CH-97-7-S-06	SOCKET WELD	PT91081	
CH-97-7-S-05	SOCKET WELD	PT91081	
CH-97-7-S-04	SOCKET WELD	PT91081	
CH-97-7-S-03	SOCKET WELD	PT91081	
CH-97-7-S-02	SOCKET WELD	PT91081	
CH-97-7-S-01	SOCKET WELD	PT91082	
* ISOMETRIC: 0254A			
CH-23-2-S-06	SOCKET WELD	PT91059	
CH-23-2-S-05	SOCKET WELD	PT91059	
CH-23-2-S-04	SOCKET WELD	PT91059	
CH-23-2-S-02	SOCKET WELD	PT91059	
* ISOMETRIC: 0243A			
RC-44-1-F-14	SOCKET WELD	PT91035	
* ISOMETRIC: 0354A			
RC-15-1-F-01	SOCKET WELD	PT91039	
RC-15-1-F-02	SOCKET WELD	PT91039	
RC-15-2A-F-03	SOCKET WELD	PT91039	
* ISOMETRIC: 0354B			
RC-25-3-S-02	SOCKET WELD	PT91046	
RC-25-3-F-06	SOCKET WELD	PT91046	
RC-25-4-F-07	SOCKET WELD	PT91046	
RC-25-4-F-08	SOCKET WELD	PT91046	
* ISOMETRIC: 0200B			
S1-106-1C-S-07	SOCKET WELD	PT91060	
S1-106-1C-S-06	SOCKET WELD	PT91060	
S1-106-1C-S-05	SOCKET WELD	PT91060	93% COVERAGE
S1-106-1C-S-04	SOCKET WELD	PT91060	
S1-106-1C-S-03	SOCKET WELD	PT91060	

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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0375F S1-73-7-F-04	SOCKET WELD	PT91053	
* ISOMETRIC: 0192A S1-83-5F-F-4F	SOCKET WELD	PT91050	
S1-83-5G-F-4G	SOCKET WELD	PT91050	
* ISOMETRIC: 0193A S1-85-3-S-02	SOCKET WELD	PT91071	
* ISOMETRIC: 0273A CH-140-2B-S-03	SOCKET WELD	PT91075	
CH-140-2B-S-02	SOCKET WELD	PT91075	
CH-140-2B-S-01	SOCKET WELD	PT91075	
** ASME ITEM NUMBER/EXAM CATEGORY: B10.010 B-K-1			
* ISOMETRIC: 0106A S1-121-5-A-04 TO 07	WELDED ATTACHMENT SUPPORT R-8	PT91038	
S1-121-6-A-08	WELDED ATTACHMENT SUPPORT SH-10	PT91049	
* ISOMETRIC: 0107A S1-101-2-A-01 TO 06	WELDED ATTACHMENT SUPPORT R-12	PT91044	
* ISOMETRIC: 0106B S1-121-1-A-01	WELDED ATTACHMENT SUPPORT R-2	PT91043	
** ASME ITEM NUMBER/EXAM CATEGORY: B12.050 B-M-2			
* ISOMETRIC: 0350B RV-RC-551B	VALVE BODY	VT91245	
RV-RC-551C	VALVE BODY	VT91244	
** ASME ITEM NUMBER/EXAM CATEGORY: B13.010 B-N-1			
* ISOMETRIC: E-001F RC-R-1-ACC-1HT	INTERIOR	VT91125	
* ISOMETRIC: E-001G RC-R-1-UPPER-INT	CORE SUPPORT STRUCTURE	VT91125	
** ASME ITEM NUMBER/EXAM CATEGORY: C01.010 C-A			
* ISOMETRIC: E-003C CH-E-3-C-7	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-8	CIRCUMFERENTIAL BUTT WELD	VT91263	



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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
CH-E-3-C-9	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-10	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-11	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-12	CIRCUMFERENTIAL BUTT WELD	VT91263	
* ISOMETRIC: E-003B			
CH-E-2-C-2	CIRCUMFERENTIAL BUTT WELD	VT91044	
* ISOMETRIC: E-001N			
RC-E-1C-C-3	CIRCUMFERENTIAL BUTT WELD	UT91049	
RC-E-1C-C-6	CIRCUMFERENTIAL BUTT WELD	UT91050	
** ASME ITEM NUMBER/EXAM CATEGORY: C01.020 C-A			
* ISOMETRIC: E-003C			
CH-E-3-C-1	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-2	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-3	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-4	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-5	CIRCUMFERENTIAL BUTT WELD	VT91263	
CH-E-3-C-6	CIRCUMFERENTIAL BUTT WELD	VT91263	
* ISOMETRIC: E-003B			
CH-E-2-C-1	CIRCUMFERENTIAL BUTT WELD	VT91044	
* ISOMETRIC: E-001N			
RC-E-1C-C-8	CIRCUMFERENTIAL BUTT WELD	UT91051	
** ASME ITEM NUMBER/EXAM CATEGORY: C02.021 C-B			
* ISOMETRIC: E-001N			
RC-E-1A-N-9	NOZZLE-TO-VESSEL WELD	UT91045	MT91007
RC-E-1A-N-10	NOZZLE-TO-VESSEL WELD	UT91056	MT91026
** ASME ITEM NUMBER/EXAM CATEGORY: C02.022 C-B			
* ISOMETRIC: E-001N			
RC-E-1A-N-91R	NOZZLE INSIDE RADIUS	UT91046	UT91048
RC-E-1A-N-101R	NOZZLE INSIDE RADIUS	UT91057	
** ASME ITEM NUMBER/EXAM CATEGORY: C02.033 C-B			

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COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: E-004A			
RH-E-1A-N-3	NOZZLE-TO-VESSEL WELD	VT91051	
RH-E-1A-N-4	NOZZLE-TO-VESSEL WELD	VT91051	
** ASME ITEM NUMBER/EXAM CATEGORY: C03.010 C-C			
* ISOMETRIC: E-003B			
CH-E-2-A-01 TO 02	WELDED ATTACHMENT SUPPORT SUPP-1	VT91043	
CH-E-2-A-03 TO 04	WELDED ATTACHMENT SUPPORT SUPP-2	VT91043	
** ASME ITEM NUMBER/EXAM CATEGORY: C03.020 C-C			
* ISOMETRIC: 0001A			
SHP-56-1A-A-01	WELDED ATTACHMENT SUPPORT SH-1	MT91017	
SHP-56-2-A-02	WELDED ATTACHMENT SUPPORT S-2	MT91017	
SHP-56-3-A-03 TO 04	WELD ATT SNUBBER HSS-201 PLATE TO PIPE	MT91033	
SHP-56-3-A-05 TO 06	WELD ATT SNUBBER HSS-201 PLATE TO PIPE	MT91033	
SHP-56-3-A-07 TO 10	WELD ATT SNUBBERS UPSTRM RING TO PIPE	MT91033	A-08 RI SAT
SHP-56-3-A-11 TO 14	WELD ATT SNUBBERS DWNSTRM RING TO PIPE	MT91033	
SHP-56-3-A-15 TO 16	WELDED ATTACHMENT SUPPORT S-3	MT91017	
SHP-56-4-A-17 TO 18	WELDED ATTACHMENT SUPPORT S-4	MT91020	
SHP-56-8-A-19 TO 26	WELDED ATTACHMENT SUPPORT SH-5	MT91017	
* ISOMETRIC: 0001B			
SHP-57-3-A-01 TO 08	WELDED ATTACHMENT SUPPORT SH-6	MT91018	
* ISOMETRIC: 0001C			
SHP-58-1A-A-01	WELDED ATTACHMENT SUPPORT SH-7	MT91019	
SHP-58-2-A-02 TO 03	WELD ATT SUPP SH-8 PLATE TO PIPE	MT91032	
SHP-58-2-A-04 TO 05	WELD ATT SUPP SH-8 PLATE TO PIPE	MT91032	
SHP-58-2-A-14 TO 17	WELD ATT SUPP SH-8 UPSTRM RING TO PIPE	MT91032	
SHP-58-2-A-18 TO 21	WELD ATT SUPP SH-8 MIDDLE RING TO PIPE	MT91032	
SHP-58-6-A-06 TO 13	WELDED ATTACHMENT SUPPORT SH-9	MT91018	
* ISOMETRIC: 0002B			
SHP-57-5-S-14	OUTER SADDLE WELD	MT91010	
SHP-57-5-S-08	REINF PAD TO MAIN HEADER WELD	MT91011	
* ISOMETRIC: 0001C			
SHP-58-2-A-22 TO 25	WELD ATT SUPP SH-8 DWNSTRM RING TO PIPE	MT91032	
** ASME ITEM NUMBER/EXAM CATEGORY: C04.010 D-D			
* ISOMETRIC: E-005B			
S1-TK-2-STUD-6	BOLTING	UT91006	
S1-TK-2-STUD-7	BOLTING	UT91006	

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
90 NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
S1-1K-2-STUD-8	BOLTING	UT91006	
S1-1K-2-STUD-9	BOLTING	UT91006	
S1-1K-2-STUD-10	BOLTING	UT91006	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.011 C-F-1			
* ISOMETRIC: 0114A			
P12-H1-F-37	PIPE WELD	UT91008 PT91012	
P12-H1-S-08	PIPE WELD	UT91009 PT91012 PT91118 PT91120	UNSAT DR710-HWR 912336, CLR REP PT91120
P12-H1-S-0U	PIPE WELD	UT91011 PT91012	
P12-H1-S-0V	PIPE WELD	UT91010 PT91012	
* ISOMETRIC: 0115A			
P11-H-F-10	PIPE WELD	UT91012 PT91011	
P11-H-S-0T	PIPE WELD	UT91013 PT91011	
P11-J-F-11	PIPE WELD	UT91014 PT91011	
* ISOMETRIC: 0083B			
S1-1-6-S-02	PIPE WELD	UT91007 PT91010 PT91125	
S1-1-6A-S-01	PIPE WELD	UT91023 PT91017	
* ISOMETRIC: 0111A			
QS-2-3B-F-06	PIPE WELD	UT91027 PT91023	PT INDCTNS W/IN ACC CRIT
* ISOMETRIC: 0084A			
RS-7-1-F-02	PIPE WELD	UT91025 PT91019 PT91126	
RS-8-1-F-08	PIPE WELD	UT91026 PT91018 PT91126	

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
** ASME ITEM NUMBER/EXAM CATEGORY: C05.012 C-F-1			
* ISOMETRIC: 0083B			
SI-1-7A-F-3B	ALIGNING CONN. LONGITUDINAL WELD	UT91024 UT91019	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.021 C-F-1			
* ISOMETRIC: 0267A			
CH-69-1-S-03	PIPE WELD	UT91003 PT91007	
CH-69-1-S-04	PIPE WELD	UT91004 PT91007	
CH-69-1-S-05	PIPE WELD	UT91005 PT91029 PT91823 PT91115	PT UNSAT DR617->MWR 912361. CLR REP PT91823
CH-71-1-S-05	PIPE WELD	UT91015 PT91013 PT91031	
CH-75-1-S-09	PIPE WELD	UT91022 PT91030 PT91822	PT UNSAT DR617->MWR 912359. CLR REP PT91822
CH-75-1-S-07	PIPE WELD	UT91020 PT91013	
CH-75-1-S-08	PIPE WELD	UT91021 PT91013	
CH-75-1-S-06	PIPE WELD	UT91019 PT91809 PT91030 PT91824	PT UNSAT DR591/617. CLR REP PT91809/PT91824
CH-75-1-S-05	PIPE WELD	UT91018 PT91013	
CH-75-1-S-04	PIPE WELD	UT91017 PT91013	
CH-75-1-S-03	PIPE WELD	UT91016 PT91013	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.030 C-F-1			
* ISOMETRIC: 0266A			
CH-82-1-F-02	SOCKET WELD	PT9122	
CH-82-1-S-01	SOCKET WELD	PT91022	
* ISOMETRIC: 0269A			
CH-83-5-S-02	SOCKET WELD	PT91027	

APPENDIX I COMPLETED CODE EXAMS

DUGUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
CH-84-1-S-02	SOCKET WELD	PT91027	
* ISOMETRIC: 0270A			
CH-86-3A-F-05	SOCKET WELD	PT91026	
CH-86-3A-F-5A	SOCKET WELD	PT91026	
CH-85-4-S-12	SOCKET WELD	PT91026	
CH-85-3-F-04	SOCKET WELD	PT91026	
CH-85-3A-F-5A	SOCKET WELD	PT91026	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.041 C-F-1			
* ISOMETRIC: 0268A			
CH-125-2-S-06	BRANCH CONN. WELD	PT91021	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.051 C-F-2			
* ISOMETRIC: 0062B			
WFPD-23-6A-F-0B	PIPE WELD	UT91036 MT91005	
WFPD-23-6A-S-03	PIPE WELD	UT91035 MT91005	
WFPD-23-6A-S-02	PIPE WELD	UT91034 MT91005	
* ISOMETRIC: 0001A			
SHP-56-9-F-11	PIPE WELD	UT91055 MT91021	
* ISOMETRIC: 0002B			
SHP-57-5-F-0B	PIPE WELD	UT91047 MT91009	
* ISOMETRIC: 0062A			
WFPD-24-7C-F-01A	PIPE WELD	UT91029 MT91004	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.081 C-F-2			
* ISOMETRIC: 0002B			
SHP-23-3-F-03	UPP TO REIN PAD TO LONG FLG BRANCH WELD	MT91008	
** ASME ITEM NUMBER/EXAM CATEGORY: C06.010 C-G			
* ISOMETRIC: E-007C			
RS-P-2B-2	PUMP CASING WELD	PT91008	

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
89 NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
** ASME ITEM NUMBER/EXAM CATEGORY: D02.020 D-B			
* ISOMETRIC: 0083C			
SI-2-8-A-15 1 18	WELDED ATTACHMENT SUPPORT R-17	VT91031	
SI-2-8-A-19	WELDED ATTACHMENT SUPPORT A-11	VT91031	
* ISOMETRIC: 0066A			
WR-29-1-A-01 TO 04	WELDED ATTACHMENT SUPPORT R-81	VT91008	
* ISOMETRIC: 0067A			
WR-19-7-A-01	WELDED ATTACHMENT SUPPORT R-24	VT91009	
WR-19-7-A-02	WELDED ATTACHMENT SUPPORT R-22	VT91008	
WR-19-8-A-03 TO 06	WELDED ATTACHMENT SUPPORT R-21	VT91008	
WR-19-8-A-07	WELDED ATTACHMENT SUPPORT R-20	VT91008	
WR-19-11-A-08	WELDED ATTACHMENT SUPPORT R-20A	VT91009	
WR-19-11-A-09	WELDED ATTACHMENT SUPPORT R-32	VT89009	
WR-20-1-A-10 TO 14	WELDED ATTACHMENT SUPPORT R-33	VT89009	
WR-20-1-A-15	WELDED ATTACHMENT SUPPORT R-35	VT91009	
* ISOMETRIC: 0068A			
WR-19-1-A-19 TO 20	WELDED ATTACHMENT SUPPORT R-64	VT91010	
WR-19-2-A-18	WELDED ATTACHMENT SUPPORT R-50	VT91010	
WR-19-2-A-16 TO 17	WELDED ATTACHMENT SUPPORT R-49	VT91010	
WR-19-3-A-15	WELDED ATTACHMENT SUPPORT R-31	VT91010	
WR-19-3C-A-12 TO 14	WELDED ATTACHMENT SUPPORT R-30	VT91010	
WR-19-6-A-06 TO 09	WELDED ATTACHMENT SUPPORT R-25	VT91010	
* ISOMETRIC: 0069A			
CC-260-3-A-15 TO 18	WELDED ATTACHMENT SUPPORT R-225	VT91011	
WR-17-5-A-04 TO 07	WELDED ATTACHMENT SUPPORT R-17	VT91011	
WR-17-7-A-08 TO 11	WELDED ATTACHMENT SUPPORT R-12	VT91011	
WR-29-3-A-14	WELDED ATTACHMENT SNUBBER R-5, HSS-306	VT91011	
* ISOMETRIC: 0069C			
WR-17-9-A-01 TO 04	WELDED ATTACHMENT SUPPORT R-10	VT91025	
WR-17-9-A-05 TO 08	WELDED ATTACHMENT SUPPORT R-43	VT91025	
WR-17-11-A-10 TO 13	WELDED ATTACHMENT SUPPORT R-46	VT91025	
WR-17-12-A-14	WELDED ATTACHMENT SUPPORT R-47A	VT91025	
* ISOMETRIC: 0128A			
WR-20-10-A-01 TO 02	WELDED ATTACHMENT SUPPORT R-57	VT91014	
WR-20-11C-A-03 TO 05	WELDED ATTACHMENT SUPPORT R-41A	VT91014	
WR-20-2-A-06 TO 09	WELDED ATTACHMENT SUPPORT R-36	VT91014	
WR-25-4-A-13	WELDED ATTACHMENT SUPPORT A-9	VT91014	

DUQUESNE LIGHT COMPANY  
BVF'S UNIT 1 1991 OUTAGE  
OR WIRELESS REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 01288			
WR-20-6-A-02	WELDED ATTACHMENT SUPPORT R-62	VT91015	
WR-20-6-A-03	WELDED ATTACHMENT SUPPORT R-61	VT91015	
WR-20-7-A-04	WELDED ATTACHMENT SUPPORT R-60	VT91015	
WR-20-8-A-05 TO 08	WELDED ATTACHMENT SUPPORT R-83	VT91015	
WR-20-9-A-09	WELDED ATTACHMENT SUPPORT R-39	VT91015	
WR-20-10-A-10 TO 12	WELDED ATTACHMENT SUPPORT R-58	VT91015	
WR-19-11-A-14	WELDED ATTACHMENT SUPPORT R-55	VT91015	
WR-19-11-A-15	WELDED ATTACHMENT SUPPORT R-54	VT91015	
WR-19-12-A-16	WELDED ATTACHMENT SUPPORT R-53	VT91015	
* ISOMETRIC: 0129A			
WR-61-5B A-01	WELDED ATTACHMENT SUPPORT R-123	VT91020	
WR-90-5-A-02	WELDED ATTACHMENT SUPPORT R-119	VT91020	
* ISOMETRIC: 0224A			
WR-53-3-A-01 TO 02	WELDED ATTACHMENT SUPPORT A-92	VT91016	
* ISOMETRIC: 0225A			
WR-43-2-A-01	WELDED ATTACHMENT SUPPORT A-91	VT91017	
WR-43-7-A-02	WELDED ATTACHMENT SUPPORT R-90	VT91017	
* ISOMETRIC: 0226A			
WR-55-2-A-01	WELDED ATTACHMENT SUPPORT A-84	VT91018	
WR-55-7B-A-02	WELDED ATTACHMENT SUPPORT R-85	VT91018	
* ISOMETRIC: 0229A			
WR-119-7-A-01 TO 04	WELDED ATTACHMENT SUPPORT R-152	VT91019	
* ISOMETRIC: 0226A			
WR-55-2-A-03	WELDED ATTACHMENT SUPPORT A-62	VT91018	
* ISOMETRIC: 0225A			
WR-43-2-A-03	WELDED ATTACHMENT SUPPORT A-89	VT91017	
* ISOMETRIC: 0183A			
CC-178-4-A-01	WELDED ATTACHMENT SUPPORT R-296	VT91070	
CC-178-5-A-02 TO 05	WELDED ATTACHMENT SUPPORT A-160-1	VT91145	
CC-178-7C-A-06 TO 09	WELDED ATTACHMENT SUPPORT A-270-1	VT91145	
CC-178-9-A-10 TO 11	WELDED ATTACHMENT SUPPORT A-185	VT91077	
** ASME ITEM NUMBER/EXAM CATEGORY: D02.040 D-B			
* ISOMETRIC: 0058A			
WR-19-6-A-05	WELDED ATTACHMENT SUPPORT SH-23	VT91010	
WR-8-3-A-25	WELDED ATTACHMENT SUPPORT SH-70	VT91010	

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVP5 UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
WR-8-2-A-1	WELDED ATTACHMENT SUPPORT SH-71	VT91010	
WR-8-1-A-23	WELDED ATTACHMENT SUPPORT SH-72	VT91010	
* ISOMETRIC: 0069A WR-29-4-A-13	WELDED ATTACHMENT SNUBBER VS-6,HSS-307	VT91011	
* ISOMETRIC: 0069B WR-17-1-A-03	WELDED ATTACHMENT SUPPORT SH-69	VT91012	
WR-17-1-A-02	WELDED ATTACHMENT SUPPORT SH-68	VT91012	
WR-17-1-A-01	WELDED ATTACHMENT SUPPORT SH-67	VT91012	
WR-17-3X-A-04	WELDED ATTACHMENT SUPPORT VS-19A	VT91012	
* ISOMETRIC: 0069C WR-17-10-A-09	WELDED ATTACHMENT SUPPORT SH-44A	VT91025	
* ISOMETRIC: 0128A WR-20-2F-A-10	WELDED ATTACHMENT SUPPORT SH-34	VT91014	
** ASME ITEM NUMBER/EXAM CATEGORY: D03.020 D-C			
* ISOMETRIC: 0070A FC-9-2-A-06	WELDED ATTACHMENT SUPPORT R-20	VT91013	
* ISOMETRIC: 0070B FC-9-2K-A-01 TO 04	WELDED ATTACHMENT SUPPORT R-16	VT91038	
FC-9-4-A-09 TO 12	WELDED ATTACHMENT SUPPORT R-11	VT91038	
** ASME ITEM NUMBER/EXAM CATEGORY: F03.010 F-C			
* ISOMETRIC: 0195A CH-97-1A-PS-3	SUPPORT	VT91091	
CH-97-2-PS-4	SUPPORT	VT91091	
* ISOMETRIC: 0253A CH-126-6-A-212	SUPPORT	VT91145	
CH-126-6-R-213	SUPPORT	VT91145	
CH-126-7-A-214	SUPPORT	VT91167	
* ISOMETRIC: 0254A CH-VC-1	SUPPORT	VT91114	
* ISOMETRIC: 0357A DG-56-1-PS-4	SUPPORT	VT91078	
DG-56-2-PS-3	SUPPORT	VT91078	



APPENDIX 1 COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0358A			
DG-52-1-PS-4	SUPPORT	VT91095	
DG-52-1F-PS-3	SUPPORT	VT91197	
* ISOMETRIC: 0359A			
DG-47-1-PS-4	SUPPORT	VT91106	
DG-47-2-PS-3	SUPPORT	VT91106	
* ISOMETRIC: 0350B			
RC-H-38	VALVE SUPPORT	VT91190	
* ISOMETRIC: 0379A			
RC-75-1-PS-1	SUPPORT	VT91111	
* ISOMETRIC: 0106A			
SI-121-2-DS-2	SUPPORT	VT91100	
SI-121-2-RH-3	SUPPORT	VT91100	
SI-121-3-R-4	SUPPORT	VT91100	
SI-121-4-R-6	SUPPORT	VT91100	
SI-121-4-R-7	SUPPORT	VT91100	
SI-121-5-R-9	SUPPORT	VT91084	
SI-121-6-DS-1	SUPPORT	VT91084	
* ISOMETRIC: 0107A			
SI-101-2-DS-1	SUPPORT	VT91116	
* ISOMETRIC: 0376A			
SI-104-1-A-PS-4	SUPPORT	VT91144	
SI-22-2-R-PS-18	SUPPORT	VT91144	
SI-22-2-R-PS-17	SUPPORT	VT91144	
SI-22-2-R-PS-16	SUPPORT	VT91144	
SI-22-3-R-PS-15	SUPPORT	VT91144	
SI-22-3-R-PS-14	SUPPORT	VT91144	
SI-22-3-R-PS-13	SUPPORT	VT91144	
SI-22-4-R-PS-12	SUPPORT	VT91144	
SI-22-4-R-PS-11	SUPPORT	VT91144	
SI-22-4-R-PS-10	SUPPORT	VT91144	
SI-22-5-R-PS-9	SUPPORT	VT91144	
SI-22-5-R-PS-8	SUPPORT	VT91144	
SI-22-5-R-PS-7	SUPPORT	VT91144	
SI-22-6-R-PS-6	SUPPORT	VT91144	
SI-22-6-PS-5	SUPPORT	VT91144	
SI-22-6-PS-4	SUPPORT	VT91144	
SI-22-7-R-PS-3	SUPPORT	VT91144	
SI-22-7-R-PS-2	SUPPORT	VT91144	
SI-22-7-A-PS-1	SUPPORT	VT91144	

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0170A			
CH-125-9B-R-147	SUPPORT	VT91071	
CH-125-10-RH-120A	SUPPORT	VT91088	
CH-125-10-R-120	SUPPORT	VT91089	
CH-125-10-R-119	SUPPORT	VT91147	
CH-125-12-R-136	SUPPORT	VT91147	
CH-125-12-R-135	SUPPORT	VT91147	
CH-125-12-V6-134D	SUPPORT	VT91147	
CH-125-12-R-134	SUPPORT	VT91147	
CH-125-13-R-134A	SUPPORT	VT91147	
CH-125-13-V6-134C	SUPPORT	VT91147	
CH-125-13-R-134B	SUPPORT	VT91147	
CH-125-15-R-204	SUPPORT	VT91147	
CH-125-15-R-203	SUPPORT	VT91147	
CH-125-15-R-202	SUPPORT	VT91147	
CH-125-15A-R-201	SUPPORT	VT91147	
CH-125-16-R-215	SUPPORT	VT91099	
* ISOMETRIC: 0192A			
S1-81-11-R-313A	SUPPORT	VT91089	
S1-81-12-R-89A	SUPPORT	VT91089	
S1-81-12-R-88A	SUPPORT	VT91153	
S1-81-12-R-88B	SUPPORT	VT91153	
S1-81-13-H-87	SUPPORT	VT91153	
S1-81-13-X-86	SUPPORT	VT91153	
S1-81-13-PS-01	SUPPORT	VT91153	
S1-82-2-PS-R-10	SUPPORT	VT91153	
S1-83-2-PS-R-10A	SUPPORT	VT91153	
S1-83-2-PS-09	SUPPORT	VT91153	
S1-83-2-PS-08	SUPPORT	VT91153	
S1-83-2-PS-07	SUPPORT	VT91153	
S1-83-3-PS-06	SUPPORT	VT91153	
S1-83-3-PS-05	SUPPORT	VT91153	
S1-83-3-PS-04	SUPPORT	VT91153	
S1-83-4-PS-03	SUPPORT	VT91153	
S1-83-4-PS-02	SUPPORT	VT91153	
S1-83-4-PS-R-01	SUPPORT	VT91153	
S1-83-5-PS-R-19	SUPPORT	VT91153	
* ISOMETRIC: 0193A			
S1-84-2-PS-A-11	SUPPORT	VT91151	
S1-85-2-PS-R-11A	SUPPORT	VT91151	
S1-85-2-PS-12	SUPPORT	VT91151	
S1-85-2-PS-13	SUPPORT	VT91151	
S1-85-2-PS-14	SUPPORT	VT91151	
S1-85-2-PS-15	SUPPORT	VT91151	

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	NDE REPORT NUMBER	OUTAGE REMARKS
*****	*****	*****	*****
S1-85-3-PS-16	SUPPORT	VT91151	
S1-85-3-PS-R-17	SUPPORT	VT91090	
S1-85-3-PS-R-18	SUPPORT	VT91086	
* ISOMETRIC: 0194A			
S1-86-2-PS-01	SUPPORT	VT91150	
S1-87-2-PS-R-2A	SUPPORT	VT91150	
S1-87-2-PS-02	SUPPORT	VT91150	
S1-87-2-PS-03	SUPPORT	VT91150	
S1-87-2-PS-04	SUPPORT	VT91150	
S1-87-3-PS-05	SUPPORT	VT91150	
S1-87-3-PS-06	SUPPORT	VT91150	
S1-87-4-PS-07	SUPPORT	VT91150	
S1-87-40-PS-08	SUPPORT	VT91150	
S1-87-40-PS-09	SUPPORT	VT91150	
S1-87-40-PS-10	SUPPORT	VT91150	
S1-87-50-PS-11	SUPPORT	VT91150	
S1-87-50-PS-12	SUPPORT	VT91150	
S1-87-50-PS-13	SUPPORT	VT91150	
S1-87-50-PS-14	SUPPORT	VT91150	
S1-87-6-PS-15	SUPPORT	VT91150	
S1-87-6-PS-16	SUPPORT	VT91150	
S1-87-6-PS-17	SUPPORT	VT91150	
S1-87-7-PS-18	SUPPORT	VT91150	
S1-87-7-PS-19	SUPPORT	VT91150	
S1-87-8-PS-21	SUPPORT	VT91150	
* ISOMETRIC: 0242B			
CH-126-1-R-205	SUPPORT	VT91149	
CH-126-2-R-206	SUPPORT	VT91149	
CH-126-2-R-207	SUPPORT	VT91149	
CH-126-2-R-208	SUPPORT	VT91149	
CH-126-3-A-209	SUPPORT	VT91149	
CH-126-4-R-210	SUPPORT	VT91149	
CH-126-4-R-211	SUPPORT	VT91149	
* ISOMETRIC: 0269A			
CH-83-1-PS-R-1	SUPPORT	VT91032	
CH-83-4-PS-7	SUPPORT	VT91040	
CH-83-4-PS-18	SUPPORT	VT91040	
CH-83-4-PS-11	SUPPORT	VT91040	
CH-83-4-PS-14	SUPPORT	VT91040	
CH-83-4-PS-9	SUPPORT	VT91040	
* ISOMETRIC: 0083C			
S1-2-B-R-17	SUPPORT	VT91031	

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
89 NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
SI-2-8-A-11	SUPPORT	VT91031	
* ISOMETRIC: 0106B			
SI-121-1-R-2	SUPPORT	VT91119	
* ISOMETRIC: 0222A			
SI-20-1-R-101	SUPPORT	VT91152	
SI-20-2-RH-2D-2	SUPPORT	VT91152	
SI-20-2-RH-3D-2	SUPPORT	VT91152	
SI-20-2-R-4D-2	SUPPORT	VT91152	
SI-20-3A-R-5D-2	SUPPORT	VT91152	
SI-20-3A-R-6D-2	SUPPORT	VT91152	
SI-20-3A-R-7D-2	SUPPORT	VT91152	
SI-20-3A-R-8D-2	SUPPORT	VT91152	
SI-20-3A-R-9D-2	SUPPORT	VT91152	
SI-20-4-R-10D-2	SUPPORT	VT91152	
SI-20-4-R-11D-2	SUPPORT	VT91152	
SI-20-4-R-12D-2	SUPPORT	VT91152	
SI-20-4-RH-13D-2	SUPPORT	VT91132	
SI-20-5-A-60	SUPPORT	VT91152	
* ISOMETRIC: 0223A			
SI-30-1-R-57	SUPPORT	VT91148	
SI-30-1-R-4R	SUPPORT	VT91148	
* ISOMETRIC: 0375A			
SI-34-1-DS-1	SUPPORT	VT91068	
* ISOMETRIC: 0375B			
SI-74-1-DS-1	SUPPORT	VT91067	
SI-74-1-R-421A	SUPPORT	VT91067	
* ISOMETRIC: 0375D			
SI-72-1-R-306A	SUPPORT	VT91075	
SI-72-1-R-307	SUPPORT	VT91074	
SI-72-1-R-308	SUPPORT	VT91074	
SI-72-2-R-309	SUPPORT	VT91074	
SI-72-2-R-310	SUPPORT	VT91073	
SI-72-3-R-311	SUPPORT	VT91074	
SI-72-3-A-312	SUPPORT	VT91073	
SI-73-1-R-306	SUPPORT	VT91074	
SI-73-1-R-332	SUPPORT	VT91074	
SI-73-1-R-302	SUPPORT	VT91074	
SI-73-2-R-303	SUPPORT	VT91074	
SI-73-2-R-304	SUPPORT	VT91074	
SI-73-2-A-305	SUPPORT	VT91073	

APPENDIX 1 COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0074C			
RH-12-1-R-0	SUPPORT	VT91168	
RH-12-1-D5-5	SUPPORT	VT91117	VT UNSAT THRD ENG DR 645
		Q-13103	
RH-12-1-A-7	SUPPORT	VT91117	
RH-8-1-D5-4	SUPPORT	VT91168	
* ISOMETRIC: 0070A			
FC-9-R-20	SUPPORT	VT91013	
* ISOMETRIC: 0070B			
FC-9-R-16	SUPPORT	VT91038	
FC-9-R-11	SUPPORT	VT91038	
* ISOMETRIC: 0065A			
WR-28-R-81	SUPPORT	VT91008	
* ISOMETRIC: 0067A			
WR-19-R-24	SUPPORT	VT91009	
WR-19-R-22	SUPPORT	VT91009	
WR-19-R-20	SUPPORT	VT91009	
WR-20-R-20A	SUPPORT	VT91009	
WR-20-P-32	SUPPORT	VT91009	
WR-20-R-35	SUPPORT	VT91009	
* ISOMETRIC: 0068A			
WR-19-R-64	SUPPORT	VT91010	
WR-187-R-50	SUPPORT	VT91010	
WR-187-R-49	SUPPORT	VT91010	
WR-187-R-31	SUPPORT	VT91010	
WR-19-R-25	SUPPORT	VT91010	
* ISOMETRIC: 0069A			
WR-234-R-225	SUPPORT	VT91011	
WR-17-VS-19	SUPPORT	VT91011	
WR-17-R-17	SUPPORT	VT91011	
WR-29-VS-6	SUPPORT	VT91011	
WR-29-R-5	SUPPORT	VT91011	
* ISOMETRIC: 0069B			
WR-17-VS-19A	SUPPORT	VT92012	
* ISOMETRIC: 0069C			
WR-17-R-10	SUPPORT	VT91024	
WR-17-R-43	SUPPORT	VT91024	
WR-17-R-46	SUPPORT	VT91024	

APPENDIX I COMPLETED CODE EXAMS

DUQUEENE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
WR-17-R-47A	SUPPORT	VT91024	
* ISOMETRIC: 0128A			
WR-20-R-57	SUPPORT	VT91014	
WR-20-R-41A	SUPPORT	VT91014	
WD-A-9	SUPPORT	VT91014	
* ISOMETRIC: 0128B			
WR-20-R-62	SUPPORT	VT91015	
WR-20-R-61	SUPPORT	VT91015	
WR-20-R-60	SUPPORT	VT91015	
WR-20-R-83	SUPPORT	VT91015	
WR-19-R-59	SUPPORT	VT91015	
WR-20-R-58	SUPPORT	VT91015	
WR-19-R-55	SUPPORT	VT91015	
WR-19-R-54	SUPPORT	VT91015	
WR-19-R-53	SUPPORT	VT91015	
* ISOMETRIC: 0129A			
WR-91-R-123	SUPPORT	VT91020	
WR-90-R-119	SUPPORT	VT91020	
* ISOMETRIC: 0224A			
WR-53-A-92	SUPPORT	VT91016	
* ISOMETRIC: 0225A			
WR-43-A-91	SUPPORT	VT91017	
WR-43-R-90	SUPPORT	VT91017	
WR-181-A-89	SUPPORT	VT91017	
* ISOMETRIC: 0226A			
WR-55-A-84	SUPPORT	VT91018	
WR-55-R-85	SUPPORT	VT91018	
WR-182-A-82	SUPPORT	VT91018	
* ISOMETRIC: 0229A			
WR-119-R-152	SUPPORT	VT91019	
* ISOMETRIC: 0242B			
CH-1-11-R-PS-3	SUPPORT	VT91149	
CH-1-11-R-PS-2	SUPPORT	VT91149	
* ISOMETRIC: 1254A			
CH-149-1-R-PS-3	SUPPORT	VT91096	
CH-149-1-R-PS-2	SUPPORT	VT91096	
CH-2-16-R-PS-4	SUPPORT	VT91143	

APPENDIX I COMPLETED CODE EXAMS

DUG JESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
89 NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
CH-2-17-R-PS-3	SUPPORT	VT91143	
CH-2-18-R-PS-2	SUPPORT	VT91143	
CH-2-18-A-PS-1	SUPPORT	VT91143	
CH-2-24-R-PS-4	SUPPORT	VT91143	
* ISOMETRIC: 0183A			
CC-178-5-A-160-1	SUPPORT	VT91146	
CC-178-7C-A-27D-1	SUPPORT	VT91145	
CC-178-9-A-185	SUPPORT	VT91077	
* ISOMETRIC: 1254A			
CH-2-25-R-PS-2	SUPPORT	VT91215	
** ASME ITEM NUMBER/EXAM CATEGORY: F03.020 F-C			
* ISOMETRIC: 0195A			
CH-97-1-PS-4	SUPPORT	VT91072	
* ISOMETRIC: 0357A			
DG-56-2-PS-2	SUPPORT	VT91078	
* ISOMETRIC: 0358A			
DG-52-1F-PS-2	SUPPORT	VT91095	
* ISOMETRIC: 0359A			
DG-47-2-PS-2	SUPPORT	VT91106	
* ISOMETRIC: 0170A			
CH-125-9B-R-121	SUPPORT	VT91071	
* ISOMETRIC: 0192A			
SI-81-11-R-313	SUPPORT	VT91069	
SI-140-4-R-314	SUPPORT	VT91069	
SI-140-4-R-315	SUPPORT	VT91069	
SI-83-3-PS-R-20	SUPPORT	VT91113	
* ISOMETRIC: 0194A			
SI-87-8-PS-20	SUPPORT	VT91104	
SI-87-8-PS-22	SUPPORT	VT91087	
* ISOMETRIC: 0242B			
CH-23-1-PS-06	SUPPORT	VT91149	
CH-23-1A-PS-07	SUPPORT	VT91149	
* ISOMETRIC: 0269A			
CH-83-4-PS-B	SUPPORT	VT91140	

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
89 NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0375D S1-72-3-R-311A	SUPPORT	VT91074	
* ISOMETRIC: 0001A SHP-56-2-S-2	SUPPORT	VT91165	CONCRETE CRACKS->EM100836
SHP-56-3-S-3	SUPPORT	VT91165	CONCRETE CRACKS->EM100836
SHP-56-4-S-4	SUPPORT	VT91165	
* ISOMETRIC: 0067A WR-19-R-21	SUPPORT	VT91009	
WR-20-R-33	SUPPORT	VT91009	
* ISOMETRIC: 0068A WR-187-R-30	SUPPORT	VT91010	
* ISOMETRIC: 0069A WR-17-R-12	SUPPORT	VT91011	
* ISOMETRIC: 0242B CH-1-5A-R-PS-20	SUPPORT	VT91149	
CH-1-5A-R-PS-23	SUPPORT	VT91149	
CH-1-5A-R-PS-19	SUPPORT	VT91149	
CH-1-6A-R-PS-18	SUPPORT	VT91149	
CH-1-6A-R-PS-17	SUPPORT	VT91149	
CH-1-7-R-PS-16	SUPPORT	VT91149	
CH-1-7-R-PS-15	SUPPORT	VT91149	
CH-1-8-R-PS-14	SUPPORT	VT91149	
CH-1-8-R-PS-13	SUPPORT	VT91149	
CH-1-9-R-PS-12	SUPPORT	VT91149	
CH-1-9-R-PS-11	SUPPORT	VT91149	
CH-1-9-R-PS-10	SUPPORT	VT91149	
CH-1-9-A-PS-9	SUPPORT	VT91149	
CH-1-10-R-PS-8	SUPPORT	VT91149	
CH-1-10-R-PS-7	SUPPORT	VT91149	
CH-1-10-R-PS-6	SUPPORT	VT91149	
CH-1-10-A-PS-5	SUPPORT	VT91149	
CH-1-10-R-PS-4	SUPPORT	VT91149	
* ISOMETRIC: 1254A CH-2-26-R-PS-1	SUPPORT	VT91076	
CH-2-27-R-PS-1	SUPPORT	VT91028	
CH-2-27-R-PS-3	SUPPORT	VT91028	
* ISOMETRIC: 0183A CC-178-4-R-296	SUPPORT	VT91070	



DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NCE REPORT NUMBER *****	OUTAGE REMARKS *****
** ASME ITEM NUMBER/EXAM CATEGORY: F03.030 F-C			
* ISOMETRIC: 0106A S1-121-5-R-8	SUPPORT	VT91066	
* ISOMETRIC: 0107A S1-101-2-R-12	SUPPORT	VT91118	
* ISOMETRIC: 0375C S1-74-4-R-328	SUPPORT	VT91103	
* ISOMETRIC: 0242B CH-126-3-VS-209A CH-126-3-R-210A	SUPPORT SUPPORT	VT91149 VT91149	
* ISOMETRIC: 0128A WR-20-R-36	SUPPORT	VT91014	
** ASME ITEM NUMBER/EXAM CATEGORY: F03.050 F-C			
* ISOMETRIC: 0359A DG-47-3-PS-1	SUPPORT	VT91106	
* ISOMETRIC: 0350B RC-97-1-SH-50	SUPPORT	VT91196 UNSAT DR686->MWR 912391. CLR REP Q-13443 Q-13443	
RC-98-1-SH-51	SUPPORT	VT91196 UNSAT DR686->MWR 912392. CLR REP Q-13444 Q-13444	
RC-99-1-SH-52	SUPPORT	VT91196 UNSAT DR686->MWR 912393. CLR REP Q-13445 Q-13445	
* ISOMETRIC: 0999C DLW-LOOP3-9-SH-5	SUPPORT	VT91105	
* ISOMETRIC: 0999D DLW-PRESS-1-SH-2	SUPPORT	VT91098 UNSAT ACC-AS-1S (DR641)	
* ISOMETRIC: 0106A S1-121-3-SH-5 S1-121-6-SH-10	SUPPORT SUPPORT	VT91100 VT91084	
* ISOMETRIC: 0192A S1-B1-13-SH-B7A S1-B1-13-SH-B6A	SUPPORT SUPPORT	VT91153 VT91153	

APPENDIX I COMPLETED CODE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
89 NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0083A S1-5-1-SH-50 S1-6-1A-SH-49	SUPPORT SUPPORT	VT91030 VT91030	
* ISOMETRIC: 0083B S1-1-6A-SH-52	SUPPORT	VT91029	
* ISOMETRIC: 0106B S1-10B-1-SH-1	SUPPORT	VT91120	
* ISOMETRIC: 0109A S1-2B-1-SH-66 S1-1B-1-SH-63	SUPPORT SUPPORT	VT91023 VT91023	
* ISOMETRIC: 0222A S1-20-1-SH-101A S1-20-5-SH-60A	SUPPORT SUPPORT	VT91152 VT91152	
* ISOMETRIC: 0223A S1-30-1-SH-58A S1-30-1-SH-57A	SUPPORT SUPPORT	VT91148 VT91148	
* ISOMETRIC: 0001A SHP-56-1A-SH-1 SHP-56-B-SH	SUPPORT SUPPORT	VT91164 VT91164	UNSAT DR673->MWR 912369, CLR REF Q-13054 3054
* ISOMETRIC: 0001B SHP-57-3-SH-6	SUPPORT	VT91163	UNSAT DR673->ACC AS IS
* ISOMETRIC: 0001C SHP-58-1A-SH-7 SHP-58-6-SH-9	SUPPORT SUPPORT	VT91166 VT91166	UNSAT DR674->ACC AS IS
* ISOMETRIC: 0074C RH-12-1-SH-8 RH-8-1-SH-13	SUPPORT SUPPORT	VT91185 VT91185	
* ISOMETRIC: 0075A RH-9-1-SH-26	SUPPORT	VT91185	
* ISOMETRIC: U068A WR-19-SH-23 WR-8-SH-70 WR-8-SH-71 WR-8-SH-72	SUPPORT SUPPORT SUPPORT SUPPORT	VT91010 VT91010 VT91010 VT91010	

APPENDIX 1 COMPLETED CODE EXAMS

DUQUEJNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
OR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
* ISOMETRIC: 0069B WR-17-SH-69	SUPPORT	VT91012	
WR-17-SH-68	SUPPORT	VT91012	
WR-17-SH-67	SUPPORT	VT91012	
* ISOMETRIC: 0069C WR-17-SH-44A	SUPPORT	VT91024	
* ISOMETRIC: 0128A WR-20-SH-34	SUPPORT	VT91014	UNSAT SETTING->DR5B1 ACC-AS-15 (DES ANAL 8700-DMC-385-0-A1)
* ISOMETRIC: 1254A CH-2-24-SH-1-3	SUPPORT	VT91107	
CH-149-1-SH-PS-1	SUPPORT	VT91097	UNSAT DR642 SETTING-OK LOOSE NUT-MWR 912363, Q-13119 CLR REP Q-13119.

APPENDIX II

PAGE NO. 1  
08/21/91

APPENDIX I] - BASELINE EXAMS

DUQUESNE LIGHT COMPANY  
BVPS UNIT 1 1991 OUTAGE  
BR NINETY DAY REPORT

COMPONENT IDENTIFICATION *****	COMPONENT DESCRIPTION *****	NDE REPORT NUMBER *****	OUTAGE REMARKS *****
** ASME ITEM NUMBER/EXAM CATEGORY: B07.030 B-G-2			
* ISOMETRIC: E-001M RC-E-1B-BH-5	BOLTING	VT91157	UNSAT DR670->REPLACE
		VT91162	
RC-E-1C-CC-6	BOLTING	VT91157	UNSAT DR670->REPLACE
		VT91162	
** ASME ITEM NUMBER/EXAM CATEGORY: C05.051 C-F-2			
* ISOMETRIC: 0062C WFPD-22-BF-F-02A	PIPE WELD	UT91064	
		MT91036	
WFPD-22-BF-F-01A	PIPE WELD	UT91063	
		MT91036	

APPENDIX III

UNSAT SUMMARY  
UNIT 1 BR

COMPONENT	REJECTING REPORT	DR NUMBER	DESCRIPTION	MWR NUMBER	CLOSING DOCUMENT
WR-20-SH-74	VT-91-14	DR 581	SETTING TOLERANCE	NA	ACC-AS-15
CH-75-1-S-06	PT-91-13	DR 584	LINEAR INDICATIONS	912860	PT-91-809
CH-74-1-S-76	PT-91-24	DR 591	LINEAR INDICATIONS	912532	PT-91-113
CH-69-1-S-05	PT-91-29	DR 617	FORGING LAPS	912361	PT-91-823
CH-73-1-S-06	PT-91-28	DR 617	FORGING LAPS	912360	PT-91-821
CH-75-1-S-09	PT-91-30	DR 617	FORGING LAPS	912359	PT-91-822
CH-75-1-S-06	PT-91-30	DR 617	FORGING LAP	912358	PT-91-824
DG-56-3-PS-1	VT-91-78	DR 635	THREAD ENGAGEMENT	NA	ACC-AS-15
CH-32 BOLTING	VT-91-93	DR 638	THREAD ENGAGEMENT	NA	ACC-AS-15
ORIFICE 1C BOLTING	VT-91-94	DR 639	LIGHT BORIC ACID	912362	MT-91-037
SI-73-B-F-10	PT-91-45	DR 640	PT INDICATION	NA	ACC-AS-15
DLW-PRESS-1-SH-2	VT-91-98	DR 641	SETTING TOLERANCE	NA	ACC-AS-15
CH-149-1-SH-PS-1	VT-91-97	DR 642	SETTING->OK, LOOSE NUT->FIX	912363	Q-13119
MOV-CH-310	VT-91-115	DR 644	THREAD ENGAGEMENT	NA	ACC-AS-15
SI-101-2-DS-1	VT-91-116	DR 644	THREAD ENGAGEMENT	NA	ACC-AS-15
RH-12-1-DS-5	VT-91-117	DR 645	THREAD ENGAGEMENT	912364	Q-13103
MOV-RH-700-B-1 THRU 16	VT-91-131	DR 651	BORIC ACID RESIDUE	912365	Q-12307
MOV-RH-720A BOLTING	VT-91-134	DR 646	THRD ENGMT, BORIC ACID	912366	Q-12403
SI-52	VT-91-141	DR 660	THREAD ENGAGEMENT	NA	ACC-AS-15
SI-26-3-S-03	PT-91-70	DR 665	LINEAR INDICATION	912368	PT-91-834
SHP-57-3-SH-6	VT-91-163	DR 673	THREAD ENGAGEMENT	NA	ACC-AS-15
SHP-56-8-SH-5	VT-91-164	DR 673	THRD ENG->OK, LOOSE NUTS->FIX	912369	Q-13054
SHP-58-6-SH-9	VT-91-166	DR 673	THREAD ENGAGEMENT	NA	ACC-AS-15
SHP-57-1A-SH-7	VT-91-166	DR 674	SETTING TOLERANCE	NA	ACC-AS-15
SHP-58-6-SH-9	VT-91-166	DR 674	SETTING TOLERANCE	NA	ACC-AS-15
RC-97-1-SH-50	VT-91-196	DR 686	LOOSE NUT	912391	Q-13443
RC-98-1-SH-51	VT-91-196	DR 686	LOOSE NUT	912392	Q-13444
RC-99-1-SH-52	VT-91-196	DR 686	LOOSE NUT	912393	Q-13445
CH-97-5-S-01	PT-91-81	DR 687	LINEAR INDICATION	912370	PT-91-044
CH-141-2-S-01	PT-91-84	DR 687	LINEAR INDICATIONS	912371	PT-91-091
CH-141-2-S-03	PT-91-84	DR 687	LINEAR INDICATIONS	912372	PT-91-092
CH-141-2-S-06	PT-91-84	DR 687	LINEAR INDICATIONS	912373	PT-91-100
CH-141-2-S-08	PT-91-84	DR 687	LINEAR INDICATIONS	912374	PT-91-096
SI-81-3B-F-04	PT-91-85	DR 690	LINEAR INDICATION	912375	PT-91-104
RC-107-2-PSSH-46	VT-91-207	DR 694	SETTING TOLERANCE	NA	ACC-AS-15
CH-96-1A-F-1B	PT-91-87	DR 695	LINEAR INDICATION	912376	PT-91-108
CH-96-1D-F-1F	PT-91-87	DR 695	LINEAR INDICATION	912377	PT-91-108
CH-96-1A-F-03	PT-91-87	DR 695	LINEAR INDICATION	912378	PT-91-107
CH-96-1-S-01	PT-91-89	DR 695	LINEAR INDICATION	912379	PT-91-107
CH-96-1-F-02	PT-91-89	DR 695	LINEAR INDICATION	912380	PT-91-108
CH-98-1G-S-01	PT-91-90	DR 695	LINEAR INDICATION	912381	PT-91-106
CH-23-4-F-06	PT-91-93	DR 695	LINEAR INDICATIONS	912382	PT-91-106
CH-98-1A-S-02	PT-91-97	DR 696	LINEAR INDICATIONS	912383	PT-91-107
CH-140-8-F-12	PT-91-98	DR 699	LINEAR INDICATIONS	912384	PT-91-112
CH-140-8-S-04	PT-91-99	DR 699	LINEAR INDICATION	912385	PT-91-110
CH-140-8-S-05	PT-91-99	DR 699	LINEAR INDICATION	912386	PT-91-110
CH-140-E-S-06	PT-91-99	DR 699	LINEAR INDICATIONS	912387	PT-91-110
CH-140-8-S-07	PT-91-99	DR 699	LINEAR INDICATION	912388	PT-91-110

APPENDIX III - BR DEFICIENCIES

UNSAT SUMMARY  
UNIT 1 BR

COMPONENT -----	REJECTING REF # -----	DR NUMBER -----	DESCRIPTION -----	MWR NUMBER -----	CLOSING DOCUMENT -----
CH-1-1B-F-1B	PT-91-101	DR 699	LINEAR INDICATION	912389	PT-91-111
CH-1-1B-S-02	PT-91-101	DR 699	LINEAR INDICATION	912390	PT-91-111
CH-69-1-S-06	PT-91-115	DR 708	LINEAR INDICATIONS	912394	PT-91-121
SI-26-3-S-04	PT-91-117	DR 709	ARC STRIKE	912395	PT-91-122
RC-E-1B-BH-5	VT-91-157	DR 670	DAMAGED THREAD	912852	VT-91-162
RC-E-1C-CC-6	VT-91-157	DR 670	DAMAGED THREAD	912853	VT-91-162
P12-H1-S-05	PT-91-118	DR 710	LINEAR INDICATION	912396	PT-91-120
SI-130-6-S-08	PT-91-119	DR 711	LINEAR INDICATION	912398	PT-91-136
SI-130-6-S-13	PY-91-119	DR 711	LINEAR INDICATIONS	912399	PT-91-136
SI-5-1B-F-04	PT-91-131	DR 715	PT INDICATIONS	914035	PT-91-144
CH-81-4-S-07	PT-91-139	DR 717	LINEAR INDICATIONS	914037	PT-91-146
CH-81-4-S-05	PT-91-139	DR 717	LINEAR INDICATIONS	914038	PT-91-146
CH-81-4-S-06	PT-91-139	DR 717	LINEAR INDICATIONS	914039	PT-91-146
SI-60-1A-S-07	PY-91-138	DR 717	FORGING LAPS	914040	PT-91-146
SI-60-1A-S-08	PT-91-138	DR 717	FORGING LAPS	914041	PT-91-146
CH-67-2-L-08	PT-91-149	DP 724	ARC STRIKE	914177	PT-91-864



APPENDIX IV

APPENDIX IV

NIS - 2 FORMS

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

1. Owner Duquesne Light Company Date 3/7/90  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR 900068  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Maint. Dept. Type Code Symbol Stamp Not Applicable  
Name Authorization No. "  
Shippingport, PA 15077 Expiration Date "  
Address
4. Identification of System Charging and Volume Control
5. (a) Applicable Construction Code ASME Sec. 8 19 65 Edition, - Addenda, - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RV-CH-203	Crosby	51680-3	-	Relief 2x3 Valve	-	Replaced	No
RV-CH-203	Crosby	61680-3	-	2 X 3 Relief Valve	-	Replacement	No

7. Description of Work Replaces Relief Valve with spare

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 SAP 39 "ASME Section XI Repair/Replacement Program"

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

Signed Daniel M. Huff Sr. Eng. Date 3/30/90 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 Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 11/14/89 to 3/30/90 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 PA 2266  
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/30 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 3/15/90  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #893232  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by D/Co - Nuclear Const. Dept. Type Code Symbol Stamp Not Applicable  
Name Authorization No. "  
Shippingport, PA 15077 Expiration Date "  
Address

4. Identification of System Diesel Generator Air Start Piping

5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda " Code Case "  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Piping	Stone and Webster	Line Nos. (see back)	N/A	Diesel Air Start Piping --		Replaced	No
Piping	Stone and Webster	Line Nos. (see back)	N/A	Diesel Air Start Piping	1989	Replacement	No

7. Description of Work Replacement of D/G #1 Air Start Piping

8. Tests Conducted: Hydraulic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 276 psi Test Temp. 69 °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 Line nos. (1 1/2" - ASC - xx - 151 - Q3): ASC-65, ASC-66, ASC-67  
Applicable Manufacturer's Data Reports to be attached  
ASC-68, ASC-69, ASC-70, ASC-71, ASC-72, ASC-75 were replaced.

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 SAP 39 "ASME Section XI Repair/Replacement Program"

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

Signed *[Signature]* ENG. I Date March 26 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 10/88 to 3/26/90, 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 208-41 PA2266  
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/26 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 3/28/90  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR #866552  
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 Reactor Plant River Water
5. (a) Applicable Construction Code B31.1 19 67 Edition, S'71 Addenda, --- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RW-77	Crane	869414	----	2" check valve	----	Replaced	No
RW-77	Kerotest	JAW 21.5	----	"	---	Replacement	No
2"-WR-66-151-Q3	Duquesne Light	----	----	2" Pipe	---	Replacement	No

7. Description of Work Replaced valve with new design and inlet pipe nipple
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 105 psi Test Temp. Amb. °F

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

FORM NIS-2 (Back)

9. Remarks 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 SAP 39 "ASME Section XI Repair/Replacement Program"

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

Signed David M. [Signature] SE, Eng Date 3/30/90 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 Waltham, Massachusetts have inspected the components described in this Owner's Report during the period 3/9/90 to 1/30/90, 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 PA-2246  
Inspector's Signature National Board, State, Province, and Endorsements

Date 3/30 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 6/4/90  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR #892230  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Duquesne Nuclear Const. 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 ANSI B31.1 19 67 Edition, S'71 Addenda, --- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RV-CH-209	Crosby	61382-MS	N/A	Relief Valve 2" X 3"	N/A	Replacement	No

7. Description of Work: Replaced relief 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 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 replacement 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 Progr

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

Signed [Signature] ENG I Date 6-4- 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 10/8/89 to 6/14/90, 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 PA 2466  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/14 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 7/25/90  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR 900027  
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Charging System

5. (a) Applicable Construction Code B31.1 '87 Edition Sup 71' Addenda N/A 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)
MOV-C 310	Velan	--	--	Model 88418/3	--	Repaired	No

7. Description of work Replaced all 12 bonnet bolts

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Visual Exam  
 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 SAP 39 "ASME Section XI Repair/Replacement Program"

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

Signed Crusick Mount Super Date 7/25/90  
 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 7/15/90 to 7/27/90, 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 ABRXXI PA1106  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 7/27 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 8-13-90  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 602671  
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Heating and Ventilation

5. (a) Applicable Construction Code Sect. VIII 19 19 Edition, S'71 Addenda, ---- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
VS-E-4B	Borg-Warner	----	46531	Control Room A/C Htexch	1972	Repaired	No

7. Description of Work Replaced heat exchangers and bells

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. 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 August 20 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 7/19 to 8/20, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 LB 8441 PA 2266  
Inspector's Signature National Board, State, Province, and Endorsements

Date 8/20 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 8/22/90  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #902691  
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 Heating & ventilation

5. (a) Applicable Construction Code Sect. VIII 19 71 Edition, S'72 Addenda ----- Code Case 1  
 (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)
VS-E-4A	Borg-Warner	-----	46530	Control Room A/C Htexch	1972	Repaired	No

7. Description of Work: Replaced heat exchangers end bells

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] ENG I Date August 24 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 8/12 to 8/24/90 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] Commissions NO 8221 P9226  
Inspector's Signature National Board, State, Province, and Endorsements

Date 8/28 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 1/24/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 912177  
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code Section III 19 68 Edition, W'68 Addenda, ----- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1983E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MOV-RC-593	Westinghouse	06618J854 G04	N/A	Model A-2328-A1	1972	Repaired	Yes

7. Description of Work Replaced broken 3/4" weld & nipple with solid plug attached to body  
of valve

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

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 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 As a temporary repair, a plug was welded to the valve body after  
the nipple was removed. Permanent repairs will be made during the next  
refueling outage.

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 NCAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed C. Bussock Maint Super. Date 3/14 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 Jan 22, 91 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

J. M. Muckee Commissions NB8316 PA 2248  
Inspector's Signature National Board, State, Province, and Endorsements

Date March 17, 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 7/26/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR 903544  
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 68 Edition S'68 Addenda ----- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 d3E-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)
RV-RC-551C	Target Rock	6	----	6" x 6" Relief Valve	1973	Replaced	Yes
RV-RC-551C	Target Rock	2	----	6" x 6" Relief Valve	1973	Replacement	Yes

7. Description of Work Replaced existing valve with a spare

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] Seni-Eng Date Aug 14 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 April 12, 1991 to July 20, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 9248  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 15, 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 5-22-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 1
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR #913958  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Maintenance Dept. Type Code Symbol Stamp Not Applicable  
Name Authorization file "  
Shippingport, PA 15077 Expiration Date "  
Address
4. Identification of System Main System
5. (a) Applicable Construction Code ANSI B16.34, 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)
MS-19	Crane Valve	Model 175-1/2XR	N/A	3 inch Check Valve	1973	Repaired	No
Disc	Crane-Aloyco	B1037	N/A	HT-# 696583	---	Replacement	No

7. Description of Work: Replaced valve internals and three 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 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] Senior Eng. Date July 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 April 12 to July 23, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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-2218  
Inspector's Signature National Board, State, Province, and Endorsements

Date July 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 6/5/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address
2. Plant Beaver Valley Power Station Unit 1  
Name  
Shippingport, PA 15077  
Address  
 MWR #013692  
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 ANSI B31.1 1967 Edition, S'71 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 Item No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-18	Crane Val.	5-1/2KF	N/A	3 Inch Check Valve	1973	Repaired	No
Disc	Crane-Aloyco	B-1035	N/A	-----	-----	Replacement	No
Hinge Pin Plug	-----	HT # 8879809	N/A	Code APH	-----	Replacement	No
Studs	Cardinal Industry	-----	N/A	-----	-----	Replacement	No

7. Description of Work replaced valve hinge pin plug, disc, & body to 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 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 Armed W. Seig ENR Date July 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 April 12 to July 23, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 July 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 6/11/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 1
2. Plant Beaver Valley Power Station Unit No. 1  
Name MWR 9037R1, MWR 912851  
Shippingport, PA 15077 MWR 912854  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Type Code Symbol Stamp Not Applicable  
Name Authorization No. \_\_\_\_\_  
Shippingport, PA 15077 Expiration Date \_\_\_\_\_  
Address
4. Identification of System Reactor Coolant System (06)
5. (a) Applicable Construction Code ASME III 19 65 Edition, W66 Addenda, 1429 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)
UR1E 1 "A" Steam Generator	Westinghouse	1301	68-45	RC-E-1A	1971	Repair	Yes

7. Description of Work: Replaced #1 handhole cover, machined gasket surface #2 handhole, replaced handhole bolts (16), replaced one (1) primary manway nut.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
Eddy current per technical specifications

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 Plugged 339 tubes, pulled two tubes & plugged (R6-C64 & R16-C60);  
cut one tube, staked & plugged (R11-C48)  
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 Constantine J. Good Date 7/16/91 1991  
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 April 12 to July 16, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date July 16, 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 6/11/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 1
2. Plant Beaver Valley Power Station Unit No. 1  
Name MWR's 903782, 913852, 912855  
Shippingport, PA 15077  
Address Re: Organization P.O. No., Job No., etc.
3. Work Performed by DLCo - Type of Symbol Stamp Not Applicable  
Name Auth: ation No. " "  
Shippingport, PA 15077  
Address on Date: " "
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME III 19 65 Edition, VI-6 Addenda, 1429 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 Component

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Unit 1 - B Steam Generator	Westinghouse	1302	68-46	RC-E-1B	1971	Repair	Yes

Installed 8 new handhole bolts, replaced one primary manway stud, plugged 220 tubes

7. Description of Work \_\_\_\_\_
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 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 Constantine D. Gaud Date 7/16/91 1991  
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 April 12 to July 16, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken/corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

John J. Fackell Commissions NB 8316 PA 2248  
Inspector's Signature National Board, State, Province, and Jurisdictions

Date July 16, 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 6/11/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 1
2. Plant Beaver Valley Power Station Unit No. 1  
Name MWR 903783, 912853, 912856, 913332  
Shippingport, PA 15077  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - NCD, Westinghouse Type Code Symbol Stamp Not Applicable  
Name Authorization No. "  
Shippingport, PA 15077 Expiration Date "  
Address
4. Identification of System RCS-Reactor Coolant System
5. (a) Applicable Construction Code ASME III 19 65 Edition W66 Addenda 1429 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)
Unit 1 "C" Steam Generator	Westinghouse	1303	68-47	RC-E-1C	1971	Repair	Yes

7. Description of Work Machined #1 handhole gasket seating surface, installed new (16) handhole bolts, weld repaired & machined handhole 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 Replaced #6 stud primary manway cold leg, plugged 197 tubes.  
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 Christopher D. Gosh Date 7/16/91, 1991  
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 April 13 to July 16, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

John Muckler Commissions NB 8516 PA 2248  
Inspector's Signature National Board, State, Province, and Endorsements

Date July 16, 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 6/14/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR #913692  
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 ANSI B31.1 19 67 Edition, G71 Addenda ---- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-20	Crane Valve	Model # 175-1/2XR	N/A	3" Check Valve	1973	Repaired	No
Disc	Crane Valve	B1036	N/A	HT # 696583	----	Replacement	No
Hinge Pin Plug	Dubose Steel	----	N/A	HT # 8879629	----	Replacement	No

7. Description of Work Replaced valve disc, hinge pin plug & body/cap bolting

8. Tests Conducted: Hydraulic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9 Remarks 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 *Thomas J. White* Senior ENR Date July 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 April 12 to July 23, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*J. Mucklee* Commissions NB 8316 PA 2248  
Inspector's Signature National Board, State, Province, and Endorsements

Date July 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 6/18/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2  
Address  
 2. Plant Beaver Valley Power Station Unit No. 1  
Name MWR 871664  
Shippingport, PA 15077 Repair Organization P.O. No., Job No., etc.  
Address  
 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 ANSI B31.1 1967 Edition S'71 Addenda N/A 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)
SI-431	Rockwell	46ABD	N/A	N/A	N/A	Replaced	Yes

7. Description of Work Replaced valve and inlet pipe

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 875 psi Test Temp. 72 °F

NCTE: 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] ENGI Date June 28 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 6/10/91 to 6/28/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA 2266  
Inspector's Signature National Board, State, Province, and Endorsements

Date 6/28 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 6/10/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address  
 2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR 901472  
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

Identification of System High Head Safety Injection

5. (a) Applicable Construction Code ANSI B31.1 19 71 Edition, N/A Addenda, N/A 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)
MOV-CB-350	Aloyco	N/A	N/A	N/A	N/A	Repaired	No

7. Description of Work Machined .010 mils from gasket surface

8. Tests Conducted: Hydraulic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi T-T 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 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 Progra

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

Signed [Signature] ENG I Date July 11 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 April 13 to July 11, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date July 11, 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 6/19/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MW 900981  
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 ANSI B31.1 1971 Edition, N/A Addenda, N/A 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)
MOV-SI-862A	Aloyco	N/A	N/A	N/A	N/A	Replaced	No

7. Description of Work Replaced body to 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.

FC A 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 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] Senior ENG Date Aug 14 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 April 20, 1991 to July 20, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 August 15, 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 6/18/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 2
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR 904056  
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 ANSI B31.1 19 71 Edition, N/A Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RV-SI858C	Crosby	N/A	N/A	N/A	N/A	Repaired	No

7. Description of Work: Replaced disc

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
*\* Valve relief setting*

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 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 Date July 11, 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 April 12 to July 11, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this 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.

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

Date July 11, 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 6/21/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #913240  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DLCo - Nuc. Cons. Dept. Type Code Symbol Stamp Not Applicable  
Name Authorization No. 0  
Shippingport, PA 15077 Expiration Date "  
Address

4. Identification of System Feedwater

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, 8'71 Addenda --- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
WFPD-24	Bechtel Corp.	----	----	Piping-16*	---	Repaired	No

7. Description of Work Feedwater elbow to steam generator was cut-out and replaced.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 1380 psi Test Temp. 97.5 °F

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

FORM NIS-2 (Back)

9. Remarks \_\_\_\_\_  
 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 JUNE 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 6/21/91 to 6/26/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 PA 2266  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 6/26 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 7-2-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR 901564  
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 Sect. III, Gb 6B Edition, W'71 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)
RS-E-1B	Industrial Process Eng.	6301-2	3180	Recirc Spray Heat Exch.	1971	Repaired	Yes
Tubes	Stainless Tubular Products	N/A	N/A	N/A	1991	Replaced	No
Tubes	Greenville Tube Co.	N/A	N/A	N/A	1989	Replaced	No

7. Description of Work Replaced one hundred forty three (143) tubes
8. Tests Conducted: Hydraulic  Pneumatic  Nominal Operating Pressure   
 Water  Pressure 81 psi Test Temp. 78 °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 U-1 form attached  
Applicable Manufacturer's Data Reports to be attached

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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 C. Bussick Maint Super Date 7/5 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 April 12 to July 11, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this 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

J. Muckle Commission NB 8316 PAR 248  
Inspector's Signature National Board, State, Province, and Endorsements

Date July 11, 1991



14. INSPECTION Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 15. OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 16. SUPPORTS: Ekin No. \_\_\_\_\_ Legs FOUR \_\_\_\_\_ Other \_\_\_\_\_  
 (Yes or No) (Number) (Number) (Number)

REMARKS: Recirculation Spray Cooler TEMA Type C, E, N  
 Item No. RS-E-1B - I.O. No. 11700 - B.V. 75  
 Contents: Shell Side Spray Water - Tube Side River Water  
 Vessel Certified as ASME Code Section III Class "C" Unit by John H. Noble  
 Registered P.E. #11501-E, Commonwealth of Pennsylvania and is  
 constructed in accordance with the winter 1968 Addenda of ASME Section III, Article 21.

(Brief description of purpose of the vessel, or Air Tank, After Cooler, Jacketed Cooler, etc. Show contents of each part.)

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

Date December 14 19 71 Signed Industrial Process Engineers by D. B. Haller

Certificate of Authorization Expires December 31, 1973

CERTIFICATE OF SHOP INSPECTION

MADE BY Industrial Process Engineers at Newark, New Jersey

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

have inspected the pressure vessel described in this manufacturer's data report on December 3 19 71, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

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

Date December 14, 19 71

[Signature] Commissioner NB#6375 Penna-WC 1879  
 Nat'l Board, State, or Province and No.

SYS. CL.	Inspector's Signature	MAJOR	MINOR	LIMIT	P. O.
M	RS	RS-E-1B	P	2.4	1 75

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

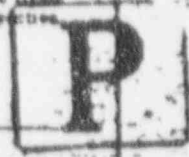
\_\_\_\_\_ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items \_\_\_\_\_ set included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME

Boiler and Pressure vessel Code. The described vessel was inspected and subjected to a hydrostatic test of \_\_\_\_\_ psi.

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

Date \_\_\_\_\_ 19 \_\_\_\_\_

Inspector's Signature \_\_\_\_\_ Commission \_\_\_\_\_  
 Nat'l Board, State, or Province and No.



01684

U N DIVISION W PHT RT	INDUSTRIAL PROCESS ENGINEERS NEWARK, N.J.	
	SERIAL NUMBER	NATIONAL BOARD NO.
	6301-2	3180
	SHELL	TUBE
	150 PSI INT	150 PSI INT
MAX. WORK PRESS.	150 PSI	48 PSI EXT
MAX. WORK TEMP.	280 F	230 F
THICKNESS	1/4" 5/16 7/16	HD. CVR 1 1/4"
HYDRO-TEST PRESS.	250 PSI	225 PSI
STATE NUMBER		YEAR BUILT
		1971

M
SYS. CODE
RS
EQ. ID. NO.
RS-E-1B
MAJOR
P
MINOR
2.4
P.O.
75

CUST. ITEM NO. RS-E-1B

P

11700 BV-75



RECEIVED

JAN - 4 - 1972

St. Louis & Western  
Engineering

**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 7-2-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 2
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR #901565  
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 Recirculation Spray
5. (a) Applicable Construction Code Sect. III.C 19 68 Edition W'71 Addenda ---- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

## 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RS-E-1D	Industrial Process Eng.	6301-4	3182	Recirc. Spray Heat Exch.	1971	Repaired	Yes
Tubes	Stainless Tubular Products	N/A	N/A	N/A	1991	Replaced	No
Tubes	Greenville Tube Co.	N/A	N/A	N/A	1989	Replaced	No
Studs	Cardinal Ind. Prod.	N/A	N/A	N/A	1991	Replaced	No
Nuts	Cardinal Ind. Prod.	N/A	N/A	N/A	1991	Replaced	No

7. Description of Work: Replaced one hundred eighteen tubes (118) & strongback studs & nuts

8. Tests Conducted: Hydrostatic  Pneumatic  Normal Operating Pressure   
 Other  Pressure 81 psi Test Temp. 78 °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)

3 Remarks U-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 Bussick Maint Super Date 7/5 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 April 12 to July 11, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date July 11 19 91

Manufactured by **INDUSTRIAL PROCESS ENGINEERING**

Manufactured for **Stone & Webster Eng. Co. for Duquesne Light Co., Shippingport, Pa.**

Vert. Heat Exch. Vessel No. **6301-4** ( ) Mod. No. **318g**

Items 4-9 incl. to be completed for shell and tube sections.

10. SHELL: Material **SA240-304L** T.S. **70,000** Nominal Thickness **7/16** in. Allowance **0** in. Corrosion

11. SEAMS: Long **D.B.W.** H.T. **No** R.T. **complete** Sectioned **No** Efficiency **100**

12. HEADS (a) Material **SA240-304L** T.S. **70,000** (b) Material **SA240-304L** T.S. **70,000** (c) Material **SA240-304L** T.S. **70,000**

13. JACKET CLOSURE: (Describe as girth & weld, bar, etc. if bar, give dimensions, if belted, describe or sketch)

14. STAYBOLTS: (Material) **SA193-B7** if hollow **No** Attachments **None** Pitch **12** in. Dia. **1/2** in.

15. CONSTRUCTED FOR MAX. allowable working press. **150** psi at max. temp. **280** °F. Min. temp. (when less than -20°) **None** Test Press **250** psi

Items 10 and 11 to be completed for tube sections.

16. TUBE SHEETS: Stationary. Material **SA240-304L** Diam. **31** in. Thickness **1/4** in. Attachment **Welded**

17. TUBES: Material **TP304L** O.D. **5/8** in. Thickness **20** inches or Gage Number **850** Type **Straight**

Items 12-15 incl. to be completed for shell and tube sections.

18. SHELL: Material **SA515-70** T.S. **70,000** Nominal Thickness **7/16** in. Allowance **0** in. Diam. **2** Ft. Length **2** Ft. **3/4** in.

19. SEAMS: Long **D.B.W.** H.T. **Yes** R.T. **complete** Sectioned **No** Efficiency **100**

20. HEADS (a) Material **SA515-70** T.S. **70,000** (b) Material **SA515-70** T.S. **70,000** (c) Material **SA515-70** T.S. **70,000**

21. JACKET CLOSURE: (Describe as girth & weld, bar, etc. if bar, give dimensions, if belted, describe or sketch)

22. STAYBOLTS: (Material) **SA193-B7** if hollow **No** Attachments **None** Pitch **12** in. Dia. **1/2** in.

23. CONSTRUCTED FOR MAX. allowable working press. **48** PSI - Ext. **150** PSI - Int. Min. temp. (when less than -20°) **None** Test Press **225** psi

Items below to be completed for all vessels where applicable.

24. SAFETY VALVE OUTLETS: Number **None** Size **None** Location **BY OTHERS**

25. NOZZLES

Purpose (Inlet, Outlet, etc.)	Number	Diam. or Size	Type	Material	Thickness	Replacement Material	How Attached
Shell	1	14 x 10	B.W.Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	14 x 12	B.W.Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	1"	Weld End	SA312	109	-----	Welded
Shell	1	1/8"	Coup Thr'd	SA240-304L	6000#	-----	Welded
Channel	2	1/4"	Weld End	SA53-B	438	SA515-70	Welded
Channel	2	1/2, 1"	Weld End	SA53-B	Sch. 80	-----	Welded



NOTE JAN 11 1972

MANUFACTURED BY INDUSTRIAL PROCESS ENGINEERING

FORM U-1 (back)

18. INSPECTION Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 19. SUPPORTS: Skirt No Legs Four Legs \_\_\_\_\_ Other \_\_\_\_\_ Attached Shell Welded  
 (Yes or No) (Number) (Number) (Weight) (Weight)

20. REMARKS: Recirculation Spray Cooler--TEMA Type CEN  
Item No. RS-E-ID -- J.O. No. 11700 -- BV-75  
Contents: Shell Side -- Spray Water -- Tube Side -- River Water  
Vessel Certified as ASME Code Sect. III Class "C" Unit by John H. Noble  
Registered P.E. #11501-E. Co. Commonwealth of Pennsylvania and is  
constructed in accordance with the Winter 1968 Addenda of ASME Sect. III, Article 21

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooler, etc. State contents of each part.)

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

Date December 17, 19 71 Signed Industrial Process Engineers by B.B. Hallan  
 (Manufacturer)

Certificate of Authorization Expires December 31, 1973

01693

**CERTIFICATE OF SHOP INSPECTION**

VESEL MADE BY Industrial Process Engineers at Newark, New Jersey

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N. J. and employed by The State of \_\_\_\_\_ have inspected the pressure vessel described in this manufacturer's data report on December 17, 19 71, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

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

Date December 17, 19 71

Commission N. B. 6575 Penna. WC 1879  
 National Board, State, or Province and No.

DATE	INSPECTOR	NO.	MAJOR	MINOR	UNIT	P.O.
M	RS	RS-E-ID	P	2-4	1	75

**CERTIFICATE OF FIELD ASSEMBLY INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items \_\_\_\_\_ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code. The described vessel was inspected and subjected to a hydrostatic test of \_\_\_\_\_ psi.

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

Date \_\_\_\_\_ 19 \_\_\_\_\_

Inspector's Signature \_\_\_\_\_ Commission \_\_\_\_\_  
 National Board, State, or Province and No.

P

<div style="border: 1px solid black; padding: 2px; text-align: center;"> <b>U</b>          N          DIVISION  <b>W</b>          PH T          RT       </div>	<b>INDUSTRIAL PROCESS ENGINEERS</b> <b>NEWARK, N.J.</b>	
	SERIAL NUMBER <b>6301-4</b>	NATIONAL BOARD NO. <b>3182</b>
	SHEET	TUBE <b>150 PSI-INT.</b>
	MAX. WORK PRESS. <b>150 PSI</b>	<b>48 PSI-EXT.</b>
	MAX. WORK TEMP. <b>280 F.</b>	<b>200 F.</b>
THICKNESS <b>1/4 5/16 7/16</b>	HD CVR. <b>1 13/16</b>	
HYDRO-TEST PRESS. <b>250 PSI</b>	<b>225 PSI</b>	
STATE NUMBER <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px;"></span>	YEAR BUILT <b>1971</b>	

<b>M</b>
SYS CODE
<b>RS</b>
EQ. ID. NO.
<b>RS-E-ID</b>
MAJOR
<b>P</b>
MINOR
<b>24</b>
PO
<b>95</b>

CUST. ITEM NO. - RS-E-ID

11700 BV-75



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

1. Owner Dugussne Light Company Date July 11, 1991  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR 900994  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCO - Mechanical Maint. Type Code Symbol Stamp Not Applicable  
Name Authorization No. "  
Shippingport, PA 15077 Expiration Date "  
Address
4. Identification of System High Head Safety Injection
5. (a) Applicable Construction Code ANSI B31.1 1971 Edition, N/A Addenda, N/A 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)
MOV-CH-115D	Anchor Darling	9193-5/70	N/A	Model #15-1028-3E	1970	Repaired	No
Body to Bonnet Studs (10)	Cardinal	N/A	N/A	HT #8096740	N/A	Replaced	No

7. Description of Work: Replaced body to bonnet studs (10)
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 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 Bussack Maint. Supv Date 7/22 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 April 12 to July 23, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date July 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 July 11, 1991  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR 913367  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DlCo - Mechanical Maintenance Type Code Symbol Stamp Not Applicable  
Name  
Shippingport, PA 15077  
Address Authorization No. \_\_\_\_\_  
 Expiration Date \_\_\_\_\_
4. Identification of System Quench Spray System
5. (a) Applicable Construction Code ANSI B31.1 19 71 Edition, N/A Addenda, N/A 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)
MOV-QS-101B	Pacific	164052	N/A	Model # 10-G-150-E-E-WE	N/A	Repaired	No
Wedge	Pacific	Part # 10G15-74R	W-8-B	HT # G9AX	N/A	Replaced	No

7. Description of Work: Replaced wedge

8. Tests Conducted: Hydraulic  Pneumatic  Normal Operating Pressure   
 Other  Pressure \_\_\_\_\_ and Test Temp: \_\_\_\_\_ °F.

NOTE: Suppliers' test 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 None  
 \_\_\_\_\_  
 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 C. Bussock Plant Supt. Date 7/16/91 1991  
 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 April 12 to July 23, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

J. Muckler Commissions NB 8316 PA 2278  
 Inspector's Signature National Board, State, Provincial, and Endorsements

Date July 23, 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 7/12/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR 912179  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by DLCO - Mechanical Maintenance 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 ASME III 19 68 Edition, WCB Authority N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements is B3G-9'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Order Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Reactor Coolant Stop Valve	Westinghouse	N/A	N/A	MOV-RC-593	N/A	Repaired	Yes

7. Description of Work: Repaired valve nipple assembly, See MWR 912179 for further details.

8. Tests Conducted: Hydraulic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psig 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 Performed weld repair in valve body to disc pressurization nipple assembly  
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 Progr"

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

Signed [Signature] Senior ENG Date Aug 14 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 April 12, 1991 to July 20, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] NB 8316 PA a. 18  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 15, 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 7/26/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15707 MWR # 913756  
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 10 68 Edition, S'68 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)
RV-RC-551B	Target Rock	1	-----	6" x 6" Relief Valve	1973	Replaced	Yes
RV-RC-551B	Target Rock	6	-----	6" x 6" Relief Valve	1973	Replacement	Yes

7. Description of Work Replaced existing valve with another

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

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**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* Senior ENG Date Aug 14 19 91  
Owner or Owner's Designer, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. \* of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period April 12, 1991 to July 20, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date August 15, 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 8/8/91  
Name  
C/o Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #913975  
Address Repair Organization P.O. 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 1968 Edition, S'68 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)
RV-RC-SPARE	Target Rock	1	---	6" x 6" Relief Valve	1973	Repaired	Yes

7. Description of Work Machined pilot disc and main disc
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
*\* Relief Pressure and Seat Leakage set by manufacturer Rep.*

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 None  
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] Senior ENR Date Aug 14, 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 April 12, 1991 to July 20, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date August 15, 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 9-3-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 1
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR # 900881  
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 111.19 65 Edition W'66 Addenda 1429 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)
RC-E-1A	Westinghouse	1301	68-45	"A" Steam Generator	1971	Repaired	yes

7. Description of Work Replaced both handholes 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 Bolting was replaced to allow temporary repair of handhole gasket leaks.  
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 *Robert A. White* ENG 1 Date SEPT 6 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 7/12/91 to 7/13/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Robert A. White* Commissions PA 2262  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 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  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address  
Swaver Valley Power Station  
Name  
Port, PA 15077  
Address  
Co - Maintenance Dept.  
Name  
15077  
Address

Date 9-4-91  
 Sheet 1 of 1  
 Unit No. 1  
 MWR # 901029  
Repair Organization P.O. No., Job No., etc.  
 Type Code Symbol Stamp Not Applicable  
 Authorization No. "  
 Expiration Date "

4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code Section 111.19.65 Edition, W'66 Addenda, 1429 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)
RC-E-1C	Westinghouse	1303	68-47	"C" Steam Generator	1971	Repair	yes

7. Description of Work: Replaced bolting on handhole 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 Bolting was replaced to allow temporary repair of handhole gasket leaks.

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 conform 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] EX-1 Date SEPT 6 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 7/14/91 to 9/13/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA 2126  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 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 9-4-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 3
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR # 904327  
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 III 19 68 Edition, W'71 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)
RS-E-1C	Industrial Process Eng.	6301-3	3181	Recirc Spray Heat Exch.	1971	Repaired	yes

7. Description of Work Replaced bottom 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 U-1 form attached.  
Applicable Manufacturer's Data Reports to be attached

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**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 *Norman J. White* ENG I Date Sept. 6 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 4/3/91 to 9/13/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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. Smith* Commissions PA 2262  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 19 91

**FORM U-1 MANUFACTURERS DATA REPORT FOR PRESSURE VESSELS**  
 As required by the provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by INDUSTRIAL PROCESS ENGINEERS, NEWARK, NEW JERSEY  
(Name and address of Manufacturer)

Manufactured for Stone & Webster Eng. Co. for Duguesne Light Co., Stirling, Port P.  
(Name and address of Purchaser)

3. Type Vert Heat Exch. Vessel No. 6301-3 (Type, Jacketed, Heat Exch.) (Mfr. Encl.) (Chart & Table No.)  
 No. 3181 (No.) No. 1991 (No.)

Items 4-9 incl. to be completed for shell sections of heat exchangers.  
 4. SHELL Material SA240-304L T.S. 70,000 Nominal 1/4 Corrosion Allowance 0 in. Diam. 2 Ft. 7 in. Length 8 Ft. 3 1/2 in.  
(Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.) (Thickness) (Subject to Pressure)

5. SEAMS: Long D.B.W. H.T. No R.T. complete Sectioned no Efficiency 100 %  
(Welded, Del. Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Girth S.B. & D.B.W. H.T. No R.T. complete Sectioned No No. of Courses 1  
(Welded, Del. Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

6. HEADS (a) Material See Line 10 T.S. 70,000 (b) Material SA515-70 T.S. 70,000 (c) Material SA515-70 T.S. 70,000  
(Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.) (Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.) (Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.)

(a) Location Top, bottom, ends Thickness 1-13/16 in. Crown Radius 37 in. Elliptical Ratio 37 in. Conical Apex Angle 37 in. Hemispherical Radius 37 in. Flat Diameter 37 in. Side to Pressure (Cover or Cradles)  
 (b) Location Channel Thickness 1-13/16 in. Crown Radius 37 in. Elliptical Ratio 37 in. Conical Apex Angle 37 in. Hemispherical Radius 37 in. Flat Diameter 37 in. Side to Pressure (Cover or Cradles)  
 (c) Location Floating Thickness 1-13/16 in. Crown Radius 37 in. Elliptical Ratio 37 in. Conical Apex Angle 37 in. Hemispherical Radius 37 in. Flat Diameter 37 in. Side to Pressure (Cover or Cradles)

7. STAYBOLTS: Material SA193-B7 If hollow No Attachment Threaded, Welded Pitch 3 in. (a) Diagonal (b) Vertical (c) Diagonal  
(Material) (Size of Hole) (Threaded, Welded) (Diagonal or Attach Block)

8. JACKET CLOSURE: None  
(Describe as cover & weld, bar, etc. If bar, give dimensions, if banded, describe or sketch)

9. Constructed for max. allowable working press. 150 psi at max. temp. 280 °F. Min. temp. (when less than -20°) None Hydrostatic Test Pressure 250 psi  
(Hydrostatic Test Pressure) (Compressive) (Tensile)

Items 10 and 11 to be completed for tube sections.  
 10. TUBE SHEETS: Stationary. Material SA240-304L Diam. 31 in. Thickness 1/4 in. Attachment Welded  
(Kind & Spec. No.) (Subject to Pressure) (Welded, Bolted)

Floating. Material SA213-316 Diam. 31 in. Thickness 1/4 in. Attachment Welded  
(Kind & Spec. No.) (Subject to Pressure) (Welded, Bolted)

11. TUBES: Material TP304-L O.D. 5/8 in. Thickness 20 mils. Number 850 Type Straight  
(Kind & Spec. No.) (Gage) (Straight or U)

Items 12-15 incl. to be completed for shell channels of heat exchangers.  
 12. SHELL Material SA515-70 T.S. 70,000 Nominal 7/16 Corrosion Allowance 0 in. Diam. 2 Ft. 7 in. Length 2 Ft. 4 3/4 in.  
(Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.) (Thickness) (Subject to Pressure) (Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.)

13. SEAMS: Long D.B.W. H.T. Yes R.T. complete Sectioned No Efficiency 100 %  
(Welded, Del. Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Girth See Fig. NB-3352-3(C) H.T. Yes R.T. complete Sectioned No No. of courses 1  
(Welded, Del. Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

14. HEADS (a) Material SA515-70 T.S. 70,000 (b) Material SA515-70 T.S. 70,000 (c) Material SA515-70 T.S. 70,000  
(Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.) (Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.) (Kind & Spec. No.) (Fig. or P. B. & Spec. Min. T.S.)

(a) Top, bottom, ends Thickness 1-13/16 in. Crown Radius 37 in. Elliptical Ratio 37 in. Conical Apex Angle 37 in. Hemispherical Radius 37 in. Flat Diameter 37 in. Side to Pressure (Cover or Cradles)  
 (b) Channel Thickness 1-13/16 in. Crown Radius 37 in. Elliptical Ratio 37 in. Conical Apex Angle 37 in. Hemispherical Radius 37 in. Flat Diameter 37 in. Side to Pressure (Cover or Cradles)  
 (c) Floating Thickness 1-13/16 in. Crown Radius 37 in. Elliptical Ratio 37 in. Conical Apex Angle 37 in. Hemispherical Radius 37 in. Flat Diameter 37 in. Side to Pressure (Cover or Cradles)

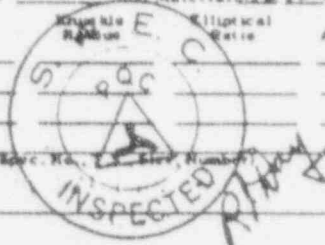
If removable, bolts used (a) Material SA193-B7 Size 3/4 in. dia. (b) 24 bolts - 3/4" dia. - SA193-B7  
(Material, Spec. No., T.S., Size, Number) (Diagonal or Attach Block)

15. Constructed for max. allowable working press. 150 psi-int. 48 psi-ext. 280 °F. Min. temp. (when less than -20°) None Hydrostatic Test Pressure 225 psi  
(Hydrostatic Test Pressure) (Compressive) (Tensile)

Items below to be completed for all vessels where applicable.  
 16. SAFETY VALVE OUTLETS: Number None Size None Location By Others

17. NOZZLES

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Attachment Material	How Attached
Shell	1	14 x 10	B.W. Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	14 x 12	B.W. Red.	SA240-304L	1/4	SA240-304L	Welded
Shell	1	1"	Weld End	SA 312	.109	SA240-304L	Welded
Shell	1	1/8"	Coup. Thr'd	SA182F304L	.6000#	SA240-304L	Welded
Channel	2	14"	Weld End	SA53-B	.438	SA515-70	Welded
Channel	2	1/2.1"	Weld End	SA53-B	Sch. 80	SA515-70	Welded



SYS. 5001 12-12-42  
 AS-RTD  
 P. 2. 7 1 75

FORM U-1 (book)

18. INSPECTION Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Throtded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 19. SUPPORTS: Skirt \_\_\_\_\_ No \_\_\_\_\_ Legs Four \_\_\_\_\_ Legs \_\_\_\_\_ Other \_\_\_\_\_ Attached Shell Weld \_\_\_\_\_  
(Yes or No) (Number) (Number) (Description) (Vessel or Pipe)

20. REMARKS: Recirculation Spray Cooler. TEMA Type -- CEN  
Tag No. BS-E-1C, I.O. No. 11700, B.V. 75  
Contents: Shell Side -- Spray Water, Tube Side -- River Water.  
Vessel certified as ASME Code Sec. III, Class "C" Unit by John H. Noble.  
Registered P.E. #11501-E Commonwealth of Pennsylvania and is constructed in  
accordance with the Winter 1968 Addenda of ASME Sect. III, Article 21.  
(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooler, etc. Also contents of each part.)

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

Date December 14 19 71 Signed Industrial Process Engineers by D.B. Hallon  
(Name of inspector)

0 Certificate of Authorization Expires December 31, 1973

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1  
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**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY Industrial Process Engineers at Newark, New Jersey

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N. J. and employed by The State of \_\_\_\_\_ have inspected the pressure vessel described in this manufacturer's data report on December 10 19 71 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

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

Date December 14 19 71

[Signature] Inspectors Signature      Commission NB 6575 Penna WC-1879  
Natl Board, State, or Province and No.

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P  
24  
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75  
 Inspected by  
 Date  
 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 \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items \_\_\_\_\_ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure vessel Code. The described vessel was inspected and subjected to a hydrostatic test of \_\_\_\_\_ psi.

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

Date \_\_\_\_\_ 19 \_\_\_\_\_

[Signature] Inspector's Signature      Commission \_\_\_\_\_  
Natl Board, State, or Province and No.

P

m  
 SYS CODE  
 RS  
 Q. B. NO.  
 RS-E-1C  
 MAJOR  
 P  
 MINOR  
 24  
 P.Q.  
 75

U N DIVISION I W PHT RT	<b>INDUSTRIAL PROCESS ENGINEERS</b> <b>NEWARK, N.J.</b>	
	SERIAL NUMBER	6301-3
	NATIONAL BOARD NO.	6101
	SHELL	TUBE 150 PSI
	MAX. WORK PRESS.	150 PSI
MAX. WORK TEMP.	200 F	
THICKNESS	1/4" / 1/16"	
HYDRO TEST PRESS.	250 PSI	
STATE NUMBER	YEAR BUILT	1974

MULT. ITEM NO. - RS-E-1C

11700 BV-75



**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 9-4-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 903263  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by DICO - 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 B31.1 19 67 Edition, S'71 Addenda, - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PCV-MS-101A	Copes-Vulcan	701095096-1-1	-	Atmospheric Dump Valve	-	Repaired	No

7. Description of Work Replaced trim assembly.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 \* *Operational Functional Test*

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 B.5 "ASME Section XI Repair/Replacement Program"

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

Signed [Signature] ENR 1 Date Sept. 13 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 8/27/91 to 9/13/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be 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 PA 2266  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 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 9-4-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 903264  
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 B31.1 19 67 Edition, S'71 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PCV-MS-101B	Copes-Vulcan	701095096-1-2	-	Atmospheric Dump Valve	-	Repaired	No

7. Description of Work Replaced trim assembly and balancing cylinder.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
\* OPERATIONAL FUNCTIONAL TEST

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 I Date SEPT 6 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 8/24/91 to 9/13/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA-2246  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 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 9-4-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 900513  
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 B31.1 19 67 Edition, S'71 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)
LCV-CH-460B	Masoneilan	-	-	Model No. 38-20721	-	Repaired	No

7. Description of Work Replaced valve plug and body to bonnet 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/A  
 Applicable Manufacturer's Data Reports to be attached

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**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 SEPT 6 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 4/2/91 to 7/17/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA 2464  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 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 9-4-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 903330  
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 ANSI B16.34 19 73 Edition, - Addenda, - Code Cases  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FCV-FW-478	Copes-Vulcan	6910-65010-31	-	"A" Feed-Reg Valve	-	Repaired	No
-	Copes-Vulcan	90-3	-	Plug	-	Replacement	Yes

7. Description of Work Replaced valve plug
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 OST 1.1.10

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

FORM NIS-2 (Back)

9. Remarks 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 I Date Oct. 7 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 April 12 to July 22, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date Oct 7, 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 9-4-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 903331  
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 ANSI B16.34, 19 73 Edition, - Addenda, - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FCV-FW-488	Copes-Vulcan	5910-65010-32	-	"B" Feed-Reg Valve	-	Repaired	No
-	Copes-Vulcan	90-5	-	Plug	-	Replacement	Yes

7. Description of Work Replaced valve plug
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F  
 OST 1.1.10

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



FORM NIS-2 (Back)

9. Remarks 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 1 Date Oct. 7 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 April 12 to July 22, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. 7, 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 9-4-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR # 903332  
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 ANSI B16.34 19 73 Edition, - Addenda, - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FCV-FW-498	Copes-Vulcan	6910-65010-33	-	"C" Feed Reg Valve	-	Repaired	No
-	Copes-Vulcan	90-1	-	Plug	-	Replacement	Yes

7. Description of Work Replaced valve plug
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure            psi Test Temp.            °F  
 OST 1.1.10

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

FORM NIS-2 (Back)

9. Remarks 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. I. Date Oct 7 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

has inspected the components described in this Owner's Report during the period April 12 to July 22, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date Oct. 7 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 9-5-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #901563  
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 Sect. III-C 19 68 Edition W'71 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)
RS-R-1A	Industrial Process Eng.	6301-1	3179	Recirc Spray Heat Exch.	1971	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 U-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 Sept 11 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 4/30/91 to 9/13/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA 2226  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 19 91

**FORM 1 - MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS**  
As required by the Provisions of the ASME Code Rules, Section III, Division 1

Manufactured by INDUSTRIAL PROCESS ENGINEERS, NEWARK, NEW JERSEY

2. Manufactured for Stone & Webster Engineering Co. for Duquesne Light Co., Shippingport, Pa.

3. Type Vert Kind Heat Exch. Vessel No. 6301-1 (Serial) (Name & Number)  
 (Class. or Vert.) (Tank, Jacket, Heat Exch.) (Fig. or P.D. & Spec. No. T.S.) (Name & Number)

Items 4-9 incl. to be completed for shells and heads of heat exchangers.

4. SHELL: Material SA240-304L T.S. 70,000 Nominal Thickness 1/4 in. Allowance Q in. Diam. 2 Ft. 7 in. Length 11-7/8 Ft.  
 (Kind and Spec. No.) (Fig. or P.D. & Spec. No. T.S.) (Corrosion)

5. SEAMS: Long D.B.W. H.T. No R.T. complete Sections No Efficiency 100 %  
 (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Girth S.B. & D.B.W. H.T. No R.T. complete Sections No No. of Courses 4

6. HEADS (a) Material See Line 10 T.S. (b) Material T.S.  
 Location Thickness Crown Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Measure (Cover or Course)

(a) \_\_\_\_\_ (b) \_\_\_\_\_

If removable, bolts used \_\_\_\_\_ Other (staying) \_\_\_\_\_  
 (Material, Spec. No., T.S., Size, Number) (General or Attach Sketch)

7. STAYBOLTS: \_\_\_\_\_ If hollow Attachment \_\_\_\_\_ Pick \_\_\_\_\_  
 (Material) (Class of Bolt) (Flanged, Welded) (Blank) (Yes) (No)

8. JACKET CLOSURE: \_\_\_\_\_  
 (Describe all girth & weld, bar, etc. If bolt, give dimensions. If bolted, describe or sketch)

9. Constructed for max. allowable working press. 150 psi at max. temp. 280 °F. less than -20°  
 Hydrostatic Test 250 psi  
 (Name of Test Agency)

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material SA240-304L Diam. 31 in. Thickness 1/4 in. Attachment Welded  
 (Kind & Spec. No.) (Sub. Ref. to Process)

Floating. Material SA-213 sml's Diam. \_\_\_\_\_ in. Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
 (Kind & Spec. No.)

11. TUBES: Material TP304-L O.D. 5/8" in. Thickness 20 \_\_\_\_\_ Gage Number 850 Type Straight  
 (Kind & Spec. No.) (Straight or U)

Items 12-15 incl. to be completed for shells and heads of channels of heat exchangers.

12. SHELL: Material SA515-70 T.S. 70,000 Nominal Thickness 7/16 in. Allowance Q in. Diam. 2 Ft. 7 in. Length 43/4" Ft.  
 (Kind and Spec. No.) (Fig. or P.D. & Spec. No. T.S.) (Corrosion)

13. SEAMS: Long D.B.W. H.T. Yes R.T. complete Sections No Efficiency 100 %  
 (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Girth NB 3352-3-1(C) H.T. Yes R.T. complete Sections No No. of Courses 1

14. HEADS (a) Material \_\_\_\_\_ T.S. (b) Material SA515-70 T.S. 70,000 Material T.S.  
 Location Thickness Crown Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Measure (Cover or Course)

(a) Top, bottom, ends \_\_\_\_\_ (b) Channel \_\_\_\_\_  
 (c) Floating \_\_\_\_\_

If removable, bolts used (a) \_\_\_\_\_ (b) 24 Bolts 3/4" dia. SA193-B7  
 (Material, Spec. No., T.S., Size, Number) (General or Attach Sketch)

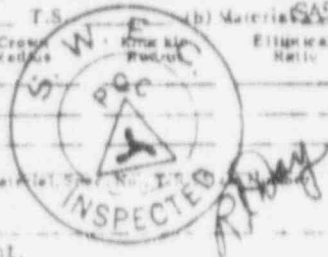
15. Constructed for max. 48 psi. Ext. allowable working press. 250 psi at max. temp. 250 °F. less than -20°  
 Hydrostatic Test 225 psi  
 (Name of Test Agency)

Items below to be completed for all vessels which are provided with safety valves.

16. SAFETY VALVE OUTLETS: Number \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_ By \_\_\_\_\_

17. NOZZLES

Purpose (Inlet, Outlet, etc.)	Number	Diam. or Size	Type	Material	Thickness	Attachment	How Attached
Shell	1	14 x 10	B.W. Rad.	SA240-304L	1/4"	SA240-304L	Welded
Shell	1	14 x 12	B.W. Rad.	SA240-304L	1/4"	SA240-304L	Welded
Shell	1	1/2"	Weld End	SA312	109%		Welded
Shell	1	1/8"	Coup. Thr'd	SA182F304L	60000		Welded
Channel	2	1/4"	Weld End	SA53-B	438	SA515-70	Welded
Channel	2	1/2, 1"	Weld End	SA53-B	Sch. 80		Welded



**P**

ASME CODE T.R. & C. MAJOR WORK UNIT P.C.  
 11-25-68

FORM U-1 (back)

18. INSPECTION Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 19. SUPPORTS: Skirt No. \_\_\_\_\_ Legs Four \_\_\_\_\_ Legs \_\_\_\_\_ Order \_\_\_\_\_ Attached Shell Welded  
 (Yes or No) (Number) (Number) (Date) (Where Welded)

20. REMARKS: Recirculation Spray Cooler TEMA Type CEN  
Item No. RS-E-1A J. O. No. 11700 -BV-75  
Contents: Shell Side - Spray Water - Tube Side - River Water  
Vessel Certified as ASME Code Sect. III Class "C" Unit by John H. Noble  
Registered P. E. #11501, E. Commonwealth of Pennsylvania, and is constructed in  
accordance with the Winter 1968 Addenda of ASME Sect. III, Article 21.

(Brief description of purpose of the vessel, or Air Tank, Air Cooler, Jacketed Cooler, etc. State contents of each part.)

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

Date December 22, 1971 Signed Industrial Process Engineers by B. B. Hillman  
 (Manufacturer)  
 Certificate of Authorization Expires December 31, 1973

6  
7

CERTIFICATE OF SHOP INSPECTION

VESEL MADE BY Industrial Process Engineers at Newark, New Jersey  
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N. J. and employed by The State of \_\_\_\_\_

have inspected the pressure vessel described in this manufacturer's data report on December 22, 1971, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

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

Date December 22, 1971  
E. Moran Commissioner N. B. #6575 Penna. WC 1879  
 (Inspector's Signature) (Natl. Board, State, or Province and No.)

U.S.	STATE	UNIT	F. O.
M	RS	RS-E-1A	P 2.4 1 75

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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

have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items \_\_\_\_\_ not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code. The described vessel was inspected and subjected to a hydrostatic test of \_\_\_\_\_ psi.

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

Date \_\_\_\_\_ 19 \_\_\_\_\_  
 \_\_\_\_\_ Inspector's Signature \_\_\_\_\_ Commissioner \_\_\_\_\_  
 (Natl. Board, State, or Province and No.)



U N DIVISION I W PHT RT	<b>INDUSTRIAL PROCESS ENGINEERS</b> <b>NEWARK, N.J.</b>	
	SERIAL NUMBER <b>6301-1</b>	NATIONAL BOARD NO. <b>3179</b>
	SHEET <b>1</b> OF <b>1</b> TUBE <b>150 PSI INT</b>	
	MAX. WORK PRESS. <b>150 PSI</b>	<b>48 PSI EXT.</b>
MAX. WORK TEMP. <b>280 F</b>	<b>230 F</b>	
THICKNESS <b>1/4" 5/16" 3/16"</b>	<b>HD. CVR. 1 1/2"</b>	
HYDRO TEST PRESS. <b>250 PSI</b>	<b>225 PSI</b>	
STATE NUMBER <input type="text"/>	YEAR BUILT <b>1971</b>	

CUST. ITEM NO. - RS-E-1A

11700 BV-75

M
BYS CODE
RS
EQ. ID. NO.
RS-E-1A
MAJOR
P
MINOR
24
04
25



**P**

**RECEIVED**  
 JAN - 5 1972  
 STONE & WEBSTER  
 ENGINEERING CORP.



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

1. Owner Duguesne Light Company Date 9-5-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address  
 Sheet 1 of 1

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address  
MWR # 902351  
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 ASME B31.1 19 67 Edition, 571 Addenda, --- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 B3E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FW-T-2	Dresser-Rand	T-36555	-	Model No. ZS-4	-	Repaired	No

7. Description of Work Replaced turbine and governor valve 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/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 NCAM 8.5 "ASME Section XI Repair/Replacement Program"

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

Signed Thomas J. White ENG. I Date OCT. 7 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 April 12 to July 23, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Glenn E. Zwickler Commissions NB-8316 PA 2278  
Inspector's Signature National Board, State, Province, and Endorsements

Date OCT. 7 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  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address

Date 9-5-91  
 Sheet 1 of 1

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

Unit No. 1  
 MWR # 900348  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by DlCo - Maintenance Dept.  
Name  
Shippingport, PA 15077  
Address

Type Code Symbol Stamp Not Applicable  
 Authorization No. "  
 Expiration Date "

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FT-SI-943	Stone and Webster	-	-	Flow Orifice	-	Repaired	No

7. Description of Work Replaced flow orifice 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/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] ENGR Date Sept. 13, 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 3/3/91 to 9/13/91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 AB 2262  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 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 9/6/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #913654  
Address Repair Organization P.O. F.O., 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 & volume control
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda, ---- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 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)
3"-CB-75-153W-Q3	Stone & Webster	---	----	3" Flange	---	Repaired	No

7. Description of Work Replaced bolting on flange upstream of valve Ch-61
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 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 Sept. 11 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 Worcester, Massachusetts have inspected the components described in this Owner's Report during the period 5/10/91 to 9/13/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 MA 2266  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/13 19 91

FOPM 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 9/6/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #912479  
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 Residual Heat Removal
5. (a) Applicable Construction Code ASME B31.1 19 67 Edition, S'71 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)
RH-HSW-109	ITT Grinell	6800B	-- --	Snubber	---	Replaced	No
RH-HSS-109	ITT Grinell	30756	----	Snubber	---	Replacement	No

7. Description of Work Replaced snubber with like kind
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ \*F  
\* Vessel

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 3 Date SEPT 11 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 8/29/91 to 9/13/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA-2206  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/15 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 9/6/91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 2  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #913906  
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 & Volume Control
5. (a) Applicable Construction Code Section IIIg 71 Edition, S'72 Addenda, ---- Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements R3E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CH-E-7B	American Standard	82F2000 9-01-3	38871	Horizontal Heat Exch.	1983	Repaired	Yes

7. Description of Work Mechanically plugged three tubes
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure                      psi Test Temp.                      °F  
*\* Edy current inspection*

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 de 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 Sept. 11 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 6/27/91 to 9/19/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA 2262  
Inspector's Signature National Board, State, Province, and Endorsements

Date 9/19 19 91

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

B  
ATTACHMENT #2  
PAGE 6 of 7

1. Manufactured by AMERICAN STANDARD HEAT TRANSFER DIVISION - BUFFALO, NEW YORK 14240  
(Name and address of Manufacturer)

Manufactured for PACIFIC PUMPS - HUNTINGTON, CALIF.  
(Name and address of Purchaser)

3. Type HORIZ. Kind Heat Exch. Vessel No. 8ZF20009-013 (Natl. Bd. No. 38871 Yr. Built 1983)  
(Horiz. or Vert.) (ASME Code, Item No.) (Mfr. Serial No.) (State & State No.)

3a. Applicable ASME Code: Section III, Edition 1971, Addenda date SUMMER 1972, Case No. \_\_\_\_\_  
Class 3.

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

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

5. Seams: Long \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ Efficiency \_\_\_\_\_ %  
Girth \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ No. of Courses \_\_\_\_\_

6. Heads (a) Material \_\_\_\_\_ T.S. \_\_\_\_\_ (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_

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

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

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

8. Design Pressure<sup>2</sup> \_\_\_\_\_ psi at \_\_\_\_\_ °F at temp. of \_\_\_\_\_ °F. Combination \_\_\_\_\_ Test Pressure \_\_\_\_\_ psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary. Material SA351GR CF8M Dia. 9.750 in. Thickness .562 in. Attachment INT. CAST  
(Kind & Spec. No.) (Subject to press.) (Welded, Bolted)

Floating. Material \_\_\_\_\_ Dia. \_\_\_\_\_ in. Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
Lo-Fin 90/10 CU/NI .044 MIN. WALL

10. Tubes: Material SA351GR O.D. .625 in. Thickness \_\_\_\_\_ inches or gage \_\_\_\_\_ AT FIN. Number 72 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 \_\_\_\_\_ T.S. \_\_\_\_\_ Nominal Thickness \_\_\_\_\_ in. Corrosion Allowance \_\_\_\_\_ in. Dia. \_\_\_\_\_ ft. \_\_\_\_\_ in. Length \_\_\_\_\_ ft. \_\_\_\_\_ in.  
(Kind & Spec. No.) (Min. of range specified)

12. Seams: Long \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ (Welded, Dbl., Single) (Yes or No)  
Girth \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_

WELDED	IN LENGTH
305-847016	
EFFICIENCY	AT
SPIN NO. <u>DLW-C5187H</u>	
No. of Courses	
SER. NO. <u>AL351GR 4191</u>	
MFR. NO.	

13. Heads: (a) Material SA351GR T.S. 70,000 (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_ (c) Material \_\_\_\_\_ T.S. \_\_\_\_\_  
CF8M

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Press. (Convex or Concave)
(a) Top, bottom, ends	<u>.250</u>	<u>7.000</u>	_____	_____	_____	_____	<u>9.750</u>	<u>CONCAVE</u>
(b) Channel	_____	_____	_____	_____	_____	_____	_____	_____
1 Floating	_____	_____	_____	_____	_____	_____	_____	_____

ALLOY STL. SA193-87 - 125,000 .375 - 24  
If removable, bolts used (a) \_\_\_\_\_ (b) \_\_\_\_\_ (c) \_\_\_\_\_ Other fastening \_\_\_\_\_ (Describe or attach sketch)

14. Design pressure<sup>2</sup> 150 psi at 200 °F at temp. of \_\_\_\_\_ °F. Combination \_\_\_\_\_ Test Pressure 225 psi

<sup>1</sup> If Postweld Heat-Treated

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number 2 TO BE PROVIDED FOR BY CUSTOMER Size --- Location ---

Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
TUBE IN / OUT	2	1.500 P.T.	BOSS	CAST A16 9/5	---	---	INT. CAST

17. Inspection Manholes, No. NONE Size --- Location ---  
 Openings: Handholes, No. NONE Size --- Location ---  
 Threaded, No. NONE Size --- Location ---

18. Supports: Skirt NONE Lugs --- Legs --- Other SUPPORTS Attached BOLTED TO BONNET  
(Yes or No) (Number) (Number) (Describe) (Where & How)

19. Remarks: SECTION III - CLASS 3 - TUBE SIDE

SHRUBS - COMMERCIAL CONSTRUCTION

(Brief description of service for which vessel was designed)

**CERTIFICATION OF DESIGN**

Design information on file at AMERICAN STANDARD HEAT TRANSFER DIV. BUFFALO, N.Y.  
 Stress analysis report on file at NOT APPLICABLE TO SECTION III CLASS 3 VESSEL  
 Design specifications certified by DAVID M. KITCH Prof. Eng. State PENN. Reg. No. 20978-E  
 Stress analysis report certified by NOT APPLICABLE Prof. Eng. State --- Reg. No. ---

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. AMERICAN STANDARD HEAT  
 Date MAR. 31 1983 Signed TRANSFER DIVISION By R.P. Warner  
(Manufacturer) (Manager, Q.C.)

Certificate of authorization Expires Aug. 8, 1984 Certificate of Authorization No. N-1164

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY AMERICAN STANDARD HEAT TRANSFER DIVISION at Buffalo, New York  
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of New York and employed by Royal Ordnance New York  
 have inspected the pressure vessel described in this Manufacturer's Data Report on MAR 31 1983, 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 MAR 31 1983  
[Signature] Inspector's Signature  
NB# 7543 NY# 2555 PA# 2327 OH#10 Commission  
National Board, State, Province and No.

**CERTIFICATE OF FIELD ASSEMBLY INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of --- and employed by --- of ---  
 have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state: --- parts referred to as data items ---, not included in the certificate of shop inspection have been inspected by me and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or Pneumatic Test of --- psi.  
 By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  
 Date --- 19---  
--- Inspector's Signature  
--- Commission  
National Board, State, Province and No.

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

1. Owner Duquesne Light Company Date 9-19-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR #913364  
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 Post DBA Hydrogen Control
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addend<sup>n</sup> ----- 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)
HY-111	Contromatics	86103-1 -3	-----	Model # 298-00-169	--	Replacement	No

7. Description of Work Replaced ball valves body, ball and stuls
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] ENGR Date Sept. 28 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 8/27/91 to 10/3/91, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 PA 2266  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/3 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 9-19-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR 900501  
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 ANSI B31.1 1967 Edition, S'71 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)
MS-23	Crane Valve	----	-----	4" Gate Valve ---		Repaired	No

7. Description of Work Replaced valves body/bonnet 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/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'N Date SEPT. 28 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 4/30/91 to 10/3/91 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 8441 PA 2266  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/3 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 10-1-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 1
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR # 913232  
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 River Water
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, 3'71 Addenda, - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
RW-110	Clow Corp.	82-2669 -01-N-04	-	4" Check Valve	1984	Replaced	No
RW-110	Clow Corp.	87-5446 -07-N-01	-	Model No. 15-SMF-754	1988	Replacement	Yes

7. Description of Work Replaced valve with 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.

FORM NIS-2 (Back)

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

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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

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 OCT 7, 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 April 12 to July 22, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 OCT 7, 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 10-1-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 1
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 913474  
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 River Water
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition S'71 Addenda - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 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)
RW-111	Clow Corp.	86-2669-02	-	4" Check Valve	-	Replaced	No
RW-111	Clow Corp.	86-2669-01-N-04	-	Model No. 15-SMF-754	1984	Replacement	No

7. Description of Work Replaced valve with like kind (formerly RW-110)
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 1 Date OCT. 7 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 April 12 to July 22, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measure described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 Oct 7, 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 10-1-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address  
 Sheet 1 of 1

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 912362  
Address Repair Organization P.O. No., Job No., etc.

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

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, S'71 Addenda - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
FE-RC-481	Stone and Webster	-	-	2"-RC-25 -1502-01	-	Repaired	No

7. Description of Work Flow elements flange bolting 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/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] ENGR Date Oct 7, 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 April 12 to July 22, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 7, 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 10-1-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279 Sheet 1 of 1  
Address

2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077 MWR # 901004  
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 ANSI B31.1 1967 Edition, S 71 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)
TCV-CH-143	Masoneilan	-	-	3-way Globe Valve	-	Repaired	No

7. Description of Work Valve Bolting 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/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 I Date Oct. 7 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

[Signature] have inspected the components described in this Owner's Report during the period April 12 to July 22, 1991 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 7, 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 10-1-91  
Name  
One Oxford Centre - Pittsburgh, PA 15279  
Address Sheet 1 of 1
2. Plant Beaver Valley Power Station Unit No. 1  
Name  
Shippingport, PA 15077  
Address MWR # 900990  
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 ANSI B31.1 19 67 Edition, S'71 Addenda, - Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83E-S'83A
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
LCV-CH-115A	Masoneilan	-		3-way Globe Valve	-	Repaired	No

7. Description of Work Valve bolting 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/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 3 Date OCT. 7 19 91  
Owner or Owner's Designer, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. \* of Norwood, Massachusetts

have inspected the components described in this Owner's Report during the period April 12 to July 22, 1991, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. 7, 19 91

APPENDIX V

APPENDIX V - STEAM GENERATORS

Page No. 1  
08/28/91

STEAM GENERATORS (Eddy Current)

One hundred percent (100%) of all inservice tubes in each steam generator (RC-E-1A, 1B, 1C) were examined using eddy current techniques.

Westinghouse Electric Corporation personnel were used as primary data acquisitioners and data analysts. Primary data analysis was performed manually. An independent second party review of all bobbin data was performed by Babcock and Wilcox personnel using an automated data screening system.

The examinations and evaluations were performed in compliance with the Duquesne Light Company Beaver Valley No. 1 Technical Specification, NRC Regulatory Guide 1.83, the EPRI Steam Generator Examination Guidelines Revision 2 and Duquesne Light Steam Generator Analysis Guidelines ISI-GL-004A Revision 1.

BOBBIN COIL EXAMINATION

The bobbin coil examination was the primary eddy current examination utilized with the exception of the Row 1 and 2 U-bend regions. In these regions a rotating pancake coil probe was used for detection of defects. Bobbin coil test speed was 24 inches per second.

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

	S/G A	S/G B	S/G C
NO. OF TUBES EXAMINED	3223	3307	3341
≥ 40% TWD	65	53	96
20 TO 39% TWD	98	127	138
< 20% TWD	28	51	37

%TWD = % through wall depth

ROTATING PANCAKE COIL (RPC)

The Westinghouse rotating pancake coil (2 X RPC) was used to acquire data from all inservice Row 1 and 2 U-bend regions.

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No degradation or pluggable indications were observed. The following table summarizes the RPC examination results in the U-bend region:

	S/G A	S/G B	S/G C
ROW 1 & 2 U-BENDS EXAMINED	142	171	182
U-BENDS WITH INDICATIONS	0	0	0

Distorted Support Plate Signals (DSI's) resulting from the bobbin coil examinations were re-tested with the RPC technique to better clarify the signals.

The following table summarizes the RPC results:

	S/G A	S/G B	S/G C	TOTAL
CONFIRMED DSI	309	191	103	603
NOT CONFIRMED DSI	285	156	126	567
NOT TESTED DUE TO % PLUGGABLE	54	39	90	182
DSI CONFIRMED WITH RPC	52%	55%	45%	52%

A 20% random sample of the WEXTEx region in each generator was examined using the RPC probe.

The following tables summarize the RPC results:

	S/G A	S/G B	S/G C
TUBES EXAMINED IN THE WEXTEx REGION	645	661	668
TUBES WITH INDICATIONS	0	0	0

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Tubes with roll expansion at the 1 & 2 cold leg tube support plate were examined for cold leg wastage:

	S/G A
NDD	1
10 - 19%	3
20 - 29%	14
30 - 39%	2
TOTAL	20

LOOSE PARTS EXAMINATION

A loose parts analysis was performed to detect possible foreign objects in the outer three rows of all the steam generators. No loose parts were detected.

TUBES PLUGGED

The table below summarizes the number of tubes plugged and reasons why they were plugged:

	S/G A	S/G B	S/G C	TOTAL
BOBBIN PERCENTAGE	58	47	96	201
RPC CONFIRMED BOBBIN DSI	270	167	99	536
RPC INDICATION ONLY	2	-	-	2
RPC CONFIRMED BOBBIN DSI & DTI	1	-	-	1
BOBBIN PERCENTAGE AND RPC CONFIRMED BOBBIN DSI	7	6	-	13
LACK OF AVB SUPPORT	3	-	2	5
OTHER SIDE OF TUBE MISPLUGGED IN 1984	1	-	-	1
MISPLUGGED IN 1991	-	1	-	1
TOTAL TUBES PLUGGED	342	221	197	760

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B&W ROLLED PLUG EXAMINATION AND RESULTS

A 20% random sample of the B&W rolled plugs that were installed in the 7th refueling outage (Heat # 7042) were examined by the RPC method. A 100% RPC examination of any other B&W rolled plug heat was also performed. No degradation or crack-like indications were observed. The table below summarizes the actual number of plugs inspected:

	S/G A	S/G B	S/G C
HOT LEG	28	15	10
COLD LEG	67	45	32
TOTAL	95	60	42

INSTALLED PLUG RETAINERS

A total of 50 Westinghouse mechanical plugs (48 in "A" S/G; 2 in "C" S/G) were repaired/captured using the Plug-in-Plug (PIP) technique. This completes the repair of all Westinghouse mechanical plugs installed at Unit # 1 in accordance with NRC Bulletin 89-01 Supplement 2.

ULTRASONIC EXAMINATION / TUBE REMOVAL

As a result of the DSI issue, 2 tubes were removed from the hot leg side of "A" steam generator. Prior to removal, the tubes were ultrasonically tested at the top of tubesheet (WEXTEx region) and at the first 3 tube support plate intersections. The analysis of these tubes is still incomplete as of the time of this submittal.

APPENDIX VI



## APPENDIX VI - FLUX THIMBLES

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## FLUX THIMBLE EXAM SUMMARY

DEFECT	NO. OF TUBES
$\geq 60\%$ TW	8
50% - 59% TW	4
40% - 49% TW	7
30% - 39% TW	10
$\leq 29\%$ TW	11
NDD	9
RESTRICTED	1

Note: All 50 tubes were examined full length.