

# SUSQUEHANNA STEAM ELECTRIC STATION

Pennsylvania Power and Light Company

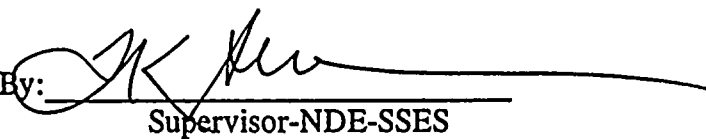
## UNIT 1 TENTH REFUELING AND INSPECTION OUTAGE

### INSERVICE INSPECTION OUTAGE SUMMARY REPORT

Prepared By:

  
ISI Engineer

Approved By:

  
Supervisor-NDE-SSS

October, 1998

9810230199 981019  
PDR ADOCK 05000387  
G PDR

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     2                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     COMMON                      
Name  
                    PO Box 467, Berwick, PA 18603                                         W/A # S73118, CODE REPAIR FORM 97-023-003                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     STANDBY DIESEL GENERATOR FUEL OIL TRANSFER SYSTEM 023B, CLASS III                    

5. (a) Applicable Construction Code                     ASME Sec III                     19                     71                     Edition,                     thru W72                     Addenda,                     N/A                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                    , CODE CASE N416-1

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)
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1) VALVE	PAC VALVES	0876-5	N/A	020300	1985	REPLACED	YES
2) VALVE	EDWARD VALVES	14AEQ	N/A	020300	1992	REPLACEMENT	YES
3) SMALL PIPE ASSEMBLY	DRAVO	N/A	N/A	SP-HBC-3304-12	1986	REPLACED	YES
4) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SP-HBC-3304-12	1997	REPLACEMENT	NO
5) PIPE SUPPORT	DRAVO	N/A	N/A	SP-HBC-3304-H16	1986	REPLACED	NO
6) PIPE SUPPORT	PP&L	N/A	N/A	SP-HBC-3304-H16	1997	REPLACEMENT	NO

7. Description of Work                     REPLACED VALVE, PIPE AND HANGER.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  VT-2 PER TP-000-001  
 Other  Pressure                     25                     psi Test Temp.                     71                     °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORTS ARE ATTACHED.: CODE OF CONSTRUCTION FOR REPLACEMENT VALVE (EDWARD VALVES) IS

Applicable Manufacturer's Data Reports to be attached

1980 EDITION, S'82 ADD., NO CODE CASES. PIPE AND PIPE SUPPORT ORIGINAL CODE OF CONSTRUCTION: ASME III 1971 ED., W'72 ADD.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Sept. 21, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period SEPT 5 1997 to DEC. 21 1997 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 IBNA PA2159  
National Board, State, Province, and Endorsements

Date SEPT 22 19 98

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

1. Owner Pennsylvania Power & Light Co. Date 08/31/98  
Name
- Two North Ninth St., Allentown; PA 18101 Sheet 2 of 2  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name
- PO Box 467, Berwick, PA 18603 W/A # S73118, CODE REPAIR FORM 97-023-003  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name
- Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address
- Expiration Date N/A
4. Identification of System STANDBY DIESEL GENERATOR FUEL TRANSFER SYSTEM 023B, CLASS III
5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, -thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, CODE CASE N416-1
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE PROGRAM FORM NUMBER
1-6	S73118	REPLACE VALVE, REPLACE PIPE AND REPAIR HANGER	VT-2 ; TP-000-001, SO-024-001/014 STROKE TEST.*	97-023-003



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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     8/31/98                      
 Sheet           1           of           1          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     ONE                      
                    S82223, Code Repair Form 98-125-001                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Type Code Symbol Stamp                     None                      
 Authorization No.                     N/A                      
 Expiration Date                     N/A                    

4. Identification of System                     Primary Containment Instrument Gas System 125A, Class III                    

5. (a) Applicable Construction Code           \*ASME Sec III           19           71           Edition,           thru W72           Addenda,           N/A           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89           \*SEE \*REMARKS\*SECTION FOR VALVES.

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)
1) VALVE	BORG WARNER	19451	N/A	126034N	1976	REPLACED	YES
2) VALVE	YARWAY	C0781	N/A	126034N	1990	REPLACEMENT	YES

7. Description of Work                     REPLACEMENT OF VALVE BY WELDING.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  NON VT-2 PER MI-PS-008.  
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ \*F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORTS ARE ATTACHED. ORIGINAL VALVE ASME III 1974 ED. S' 75 ADD.

Applicable Manufacturer's Data Reports to be attached

REPLACEMENT VALVE: 1986 ED. NO ADD.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept 21, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS.

have inspected the components described in this Owner's Report during the period MAY 16 1998 to MAY 21 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date SEPT 22 19 98

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

1. Owner Pennsylvania Power & Light Co. Date 8/25/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 11  
Address

2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, SEE LIST Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) VALVE	BORG WARNER	80483	N/A	PSV-03483E	1984	REPAIRED	YES
2) STEM/DISC	YARWAY	6424 (VALVE)	N/A	PI-01112C-R1	1976	REPLACED	YES
3) STEM/DISC	YARWAY	B0680 VALVE	N/A	PI-01112C-R1	1979	REPLACEMENT	YES
4) BACKSEAT BUSHING	YARWAY	6424 (VALVE)	N/A	PI-01112C-R1	1976	REPLACED	NO
5) BACKSEAT BUSHING	YARWAY	HT# 5293	N/A	PI-01112C-R1	1997	REPLACEMENT	NO
6) SMALL PIPE PLUG	MORRISON KNUDSEN	N/A	N/A	HRC-3300-3	1985	REPLACED	YES

7. Description of Work SEE ATTACHED LIST

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

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



FORM NIS-2 (Back)

9. Remarks CODE DATA REPORTS ARE ATTACHED.: SEE ATTACHED LIST FOR CODES OF CONSTRUCTION.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept 29 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period OCT. 8 1998 to MARCH 27 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 18NA PA 2159  
National Board, State, Province, and Endorsements

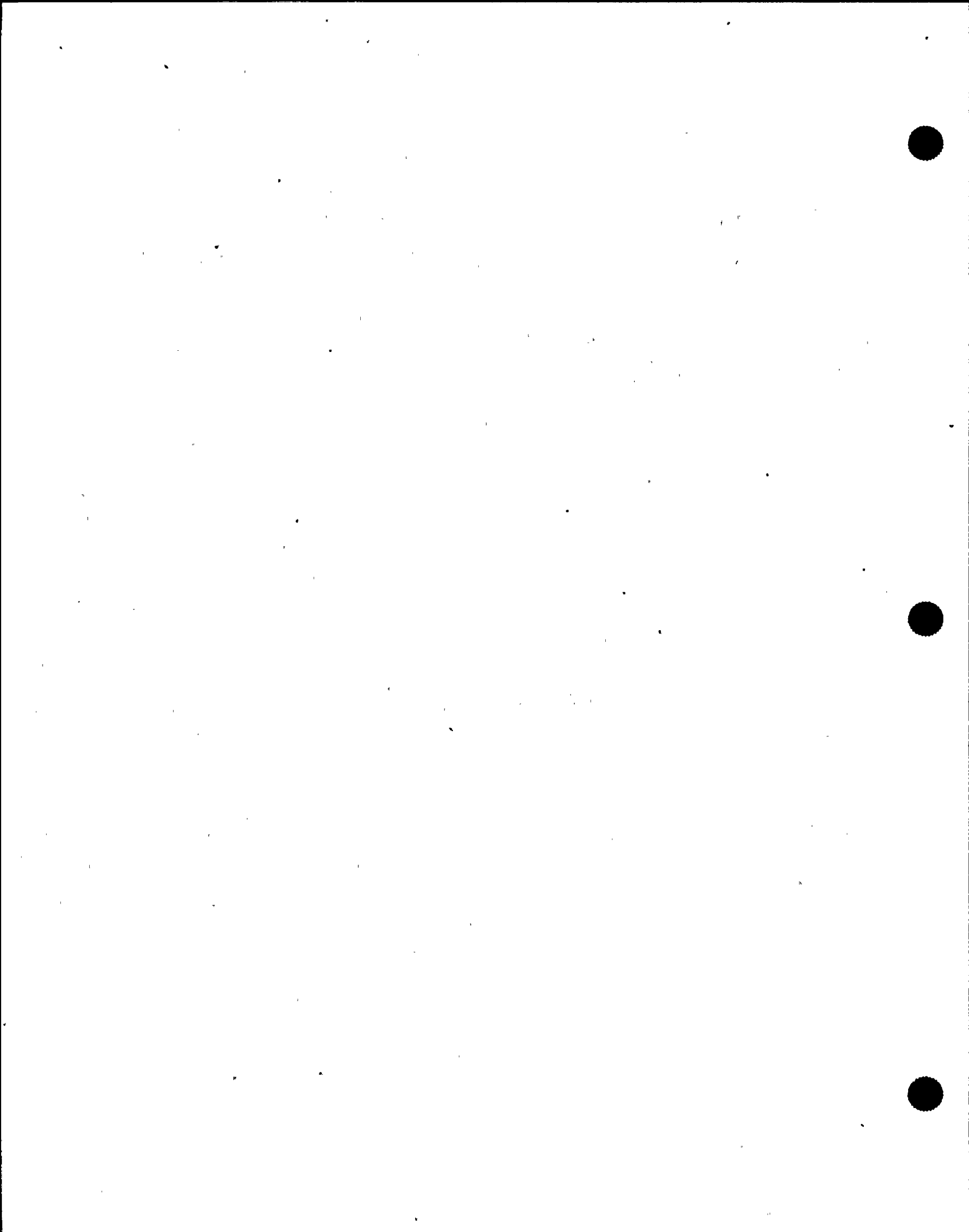
Date SEPT 29 19 98

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

1. Owner Pennsylvania Power & Light Co. Date 8/25/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 11  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, SEE LIST Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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7) SMALL PIPE PLUG	PP&L	HT. NO 0898 (PLUG)	N/A	HRC-3300-3	1997	REPLACEMENT	NO
8) SMALL PIPE BUSHING	MORRISON KNUDSEN	N/A	N/A	HRC-3300-3	1985	REPLACED	YES
9) SMALL PIPE BUSHING	PP&L	HT. NO CH79 (BUSHING)	N/A	HRC-3300-3	1997	REPLACEMENT	NO
10) INTERCOOLER STUDS	PERFEX.	841601-2	5660	SPARE	1976	REPLACED	YES
11) INTERCOOLER STUDS	PP&L	HT. NO 8996578	N/A	SPARE	1997	REPLACEMENT	NO
12) INTERCOOLER NUTS	PERFEX	841601-2	5660	SPARE	1976	REPLACED	YES
13) INTERCOOLER NUTS	PP&L	N/A	5660	SPARE	1997	REPLACEMENT	NO
14) INTERCOOLER STUDS	PERFEX	841601-3	5661	SPARE	1976	REPLACED	YES
15) INTERCOOLER STUDS	PP&L	HT. NO 8996578	5661	SPARE	1997	REPLACEMENT	NO
16) INTERCOOLER NUTS	PERFEX	841601-3	5661	SPARE	1976	REPLACED	YES
17) INTERCOOLER NUTS	PP&L	N/A	5661	SPARE	1997	REPLACEMENT	NO



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

1. Owner Pennsylvania Power & Light Co. Date 8/26/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 3 of 11  
Address

2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, SEE LIST Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
18) INTERCOOLER WATERBOX	PERFEX	841601-3	5661	SPARE	1976	REPLACED	YES
19) INTERCOOLER WATERBOX	PERFEX	924602	6121	SPARE	1979	REPLACEMENT	YES
20) SMALL PIPE HANGER	BECHTEL	N/A	N/A	SP-HRC-9-H2003	1983	REPAIRED	NO
21) SMALL PIPE HANGER	BECHTEL	N/A	N/A	SP-HRC-9-H2013	1983	REPAIRED	NO
22) INTERCOOLER NUTS	PERFEX	924601-1	6053	OE505-B1	1978	REPLACED	YES
23) INTERCOOLER NUTS	PP&L	HT. NO M63434 (NUTS)	6053	OE505-B1	1997	REPLACEMENT	NO
24) INTERCOOLER STUDS	PERFEX	841601-5	5663	OE505-B2	1976	REPAIRED	YES
25) PIPE ASSEMBLY	BECHTEL	0355-6	N/A	HRC-7-2	1976	REPLACED	YES
26) PIPE ASSEMBLY	PP&L	88147-GP	N/A	HRC-7-2	1996	REPLACEMENT	NO
27) LUBE OIL CLR VENT COUPLING	AMER STAN	7-20009-06-4 (LUBE OIL CLR)	29147	OE-506D	1975	REPLACED	YES
28) LUBE OIL CLR VENT COUPLING	PP&L	HT. NO CK80 (COUPLING)	29147	OE-506D	N/A	REPLACEMENT	NO

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

1. Owner Pennsylvania Power & Light Co. Date 8/25/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 4 of 11  
Address

2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, SEE LIST Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
29) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SP-HRC-9-9	1982	REPAIRED	YES
30) LUBE OIL CLR (WELD REPAIR)	AMER STAN	7-20009-06-2 (LUBE OIL CLR)	29145	OE-506A	1975	REPAIRED	YES
31) LUBE OIL CLR (vent & drain couplings)	AMER STAN	7-20009-06-2 (LUBE OIL CLR)	29145	OE-506A	1975	REPLACED	YES
32) LUBE OIL CLR (vent & drain couplings)	PP&L	HT. NO CA15 (COUPLINGS)	29145	OE-506A	N/A	REPLACEMENT	NO
33) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-9-6	1982	REPLACED	YES
34) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SP-HRC-9-6	1998	REPLACEMENT	NO
35) SMALL PIPE HANGER (CLIP)	BECHTEL	N/A	N/A	SP-HRC-9-H2001	1982	REPLACED	NO
36) SMALL PIPE HANGER (CLIP)	PP&L	N/A	N/A	SP-HRC-9-H2001	1998	REPLACEMENT	NO
37) SMALL PIPE HANGER (CLIP)	BECHTEL	N/A	N/A	SP-HRC-9-H2011	1982	REPLACED	NO
38) SMALL PIPE HANGER (CLIP)	PP&L	N/A	N/A	SP-HRC-9-H2011	1998	REPLACEMENT	NO
39) JACKET WATER COOLER (WELD REPAIR)	AMER STAN.	7-20009-01-3 (JKT WTR CLR)	29142	OE-507A	1975	REPAIRED	YES

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

1. Owner Pennsylvania Power & Light Co. Date 8/25/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 5 of 11  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, SEE LIST Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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40) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-9-10	1982	REPLACED	YES
41) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SP-HRC-9-10	1998	REPLACEMENT	NO
42) JACKET WATER COOLER (vent & drain couplings)	AMER STAN	7-20009-01-3 (JKT WTR CLR)	29142	OE-507A	1975	REPLACED	YES
43) JACKET WATER COOLER (vent & drain couplings)	PP&L	HT. NO CA 15 (VT & DRN) (COUPLINGS)	29142	OE-507A	1998	REPLACEMENT	NO
44) LARGE PIPE ASSEMBLY (NUT QTY 2)	BECHTEL	N/A	N/A	HRC-3-1	1982	REPLACED	YES
45) LARGE PIPE ASSEMBLY (NUT QTY 2)	PP&L	HT.NO M63434	N/A	HRC-3-1	1998	REPLACEMENT	NO
46) LARGE PIPE ASSEMBLY (NUT QTY 1)	BECHTEL	N/A	N/A	HRC-9-2	1982	REPLACED	YES
47) LARGE PIPE ASSEMBLY (NUT QTY 1)	PP&L	M63434	N/A	HRC-9-2	1998	REPLACEMENT	NO
48) JACKET WATER COOLER (NUT QTY 1)	AMER STAN	7-20009-01-3 (JKT WTR CLR)	29142	OE-507A	1975	REPLACED	YES
49) JACKET WATER COOLER (NUT QTY 1)	PP&L	HT. NO L83507	29142	OE-507A	1998	REPLACEMENT	NO

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/25/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           6           of           11            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     COMMON                      
Name  
                    PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III                    

5. (a) Applicable Construction Code           III           19           71           Edition,           thru W72           Addenda,           SEE LIST           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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50) JACKET WATER COOLER (STUDS QTY 14)	AMER STAN	7-20009-01-3 (JKT WTR CLR)	29142	OE-507A	1975	REPLACED	YES
51) JACKET WATER COOLER (STUDS QTY 14)	PP&L	HT.TR.H1	29142	OE-507A	1998	REPLACEMENT	NO
52) SMALL PIPE HANGER	BECHTEL	N/A	N/A	SP-HRC-9-H2007	1982	REPAIRED	NO
53) SMALL PIPE HANGER (PLATE)	BECHTEL	N/A	N/A	SP-HRC-9-H2007	1982	REPLACED	NO
54) SMALL PIPE HANGER (PLATE)	PP&L	N/A	N/A	SP-HRC-9-H2007	1998	REPLACEMENT	NO
55) LUBE OIL CLR (WELD REPAIR)	AMER STAN	7-20009-06-4	29147	OE506D	1975	REPAIRED	YES
56) LUBE OIL CLR (NUT QTY 4)	AMER STAN	7-20009-06-4	29147	OE506D	1975	REPLACED	YES
57) LUBE OIL CLR (NUT QTY 4)	PP&L	M63434	29147	OE506D	1998	REPLACEMENT	NO
58) INTERCOOLER (WELD REPAIR)	PERFEX	841601-7	5665	OE505-D1	1976	REPAIRED	YES
59) INTERCOOLER (DIVIDER PLATE)	PERFEX	841601-7	5665	OE505-D1	1976	REPLACED	YES
60) INTERCOOLER (DIVIDER PLATE)	PP&L	HT. NO 7434567	5665	OE505-D1	1998	REPLACEMENT	NO



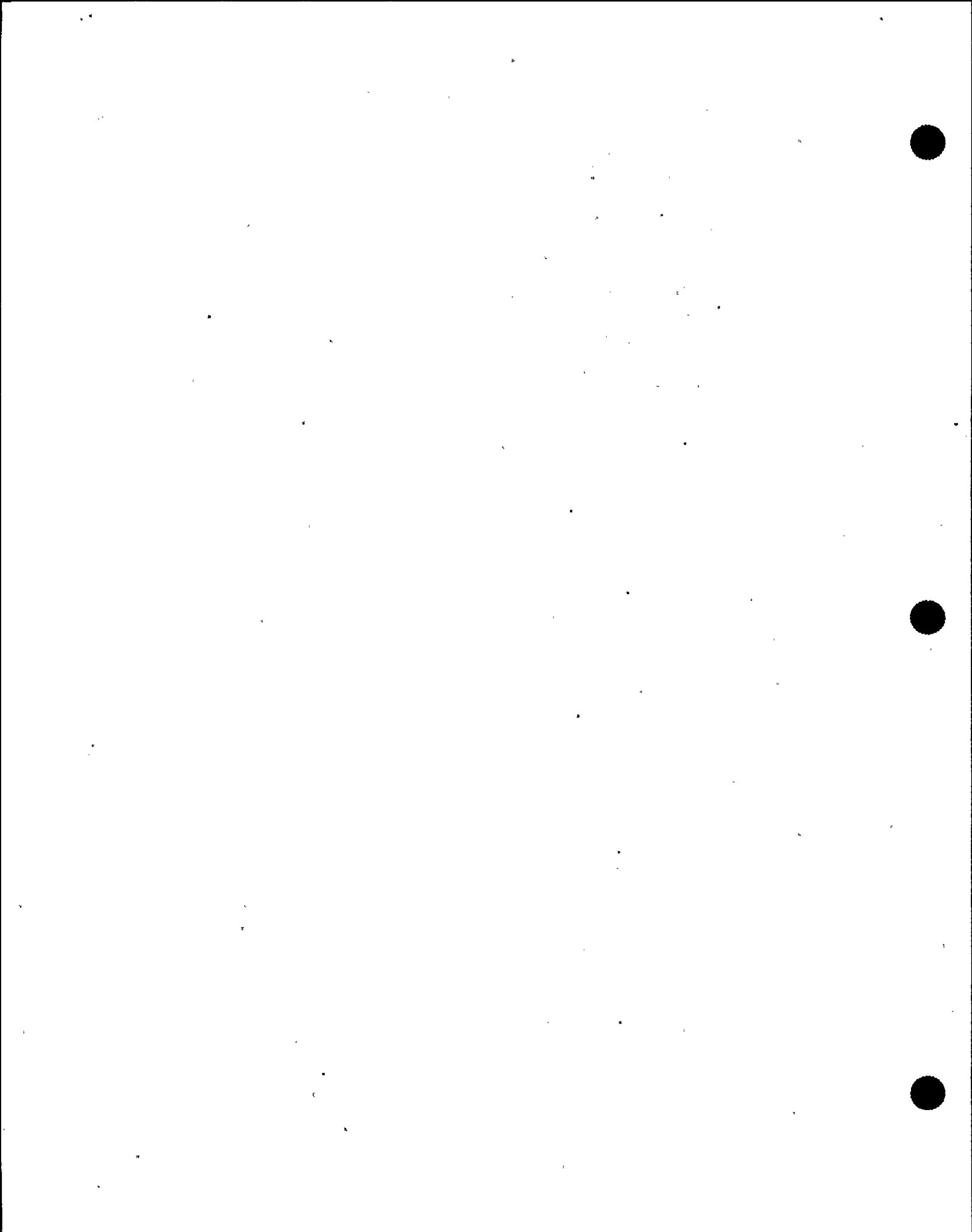


**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

1. Owner Pennsylvania Power & Light Co. Date 8/25/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 7 of 11  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, SEE LIST Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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61) INTERCOOLER (NUT QTY 25)	PERFEX	841601-7	5665	OE505-D1	1976	REPLACED	YES
62) INTERCOOLER (NUT QTY 25)	PP&L	HT. NO. B78528	5665	OE505-D1	1998	REPLACEMENT	NO
63) INTERCOOLER (STUD QTY 30)	PERFEX	841601-7	5665	OE505-D1	1976	REPLACED	YES
64) INTERCOOLER (STUD QTY 30)	PP&L	HT. NO 8866807	5665	OE505-D1	1998	REPLACEMENT	NO
65) INTERCOOLER (WELD REPAIR)	PERFEX	924601-2	6054	OE505-D2	1978	REPAIRED	YES
66) INTERCOOLER (DIVIDER PLATE)	PERFEX	924601-2	6054	OE505-D2	1978	REPLACED	YES
67) INTERCOOLER (DIVIDER PLATE)	PP&L	HT. NO 7434567	6054	OE505-D2	1998	REPLACEMENT	NO
68) INTERCOOLER (NUT QTY 12)	PERFEX	924601-2	6054	OE505-D2	1978	REPLACED	YES
69) INTERCOOLER (NUT QTY 12)	PP&L	HT. NO B78528	6054	OE505-D2	1998	REPLACEMENT	NO
70) INTERCOOLER (STUD QTY 41)	PERFEX	924601-2	6054	OE505-D2	1978	REPLACED	YES



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/25/98                      
Name
- Two North Ninth St., Allentown, PA 18101                     Sheet           8           of           11            
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     COMMON                      
Name
- PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name
- Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A
4. Identification of System                     DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III
5. (a) Applicable Construction Code           III           19           71           Edition,           thru W72           Addenda,           SEE LIST           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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71) INTERCOOLER (STUD QTY 41)	PP&L	HT NO 8866807 (QTY 34) HT NO 47356 (QTY 7)	6054	OE505-D2	1998	REPLACEMENT	NO
72) HEAT EXCHANGER	PERFEX	841601-5	5663	OE505-C1	1976	REPLACED	YES
73) HEAT EXCHANGER	PERFEX	841601-3	5661	OE505-C1	1976	REPLACEMENT	YES
74) HEAT EXCHANGER	PERFEX	924601-1	6053	OE505-C2	1978	REPLACED	YES
75) HEAT EXCHANGER	PERFEX	841601-1	5660	OE505-C2	1976	REPLACEMENT	YES
76) SMALL PIPE HANGER (PLATE)	BECHTEL	N/A	N/A	SP-HRC-9-H2005	1983	REPLACED	NO
77) SMALL PIPE HANGER (PLATE)	PP&L	HT. NO 387911	N/A	SP-HRC-9-H2005	1997	REPLACEMENT	NO
78) HEAT EXCHGR (FLANGES)	AMERICAN STANDARD	7-20009-06-3	29146	OE506C	1975	REPAIRED	YES
79) HEAT EXCHGR (2 COUPLINGS)	AMERICAN STANDARD	7-20009-06-3	29146	OE506C	1975	REPLACED	YES
80) HEAT EXCHGR (2 COUPLINGS)	PP&L	HT. NO 986 (COUPLINGS)	29146	OE506C	1997	REPLACEMENT	NO



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

1. Owner Pennsylvania Power & Light Co. Date 8/25/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 9 of 11  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, SEE LIST Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
81) HEAT EXCHGR (NUTS QTY 4)	AMERICAN STANDARD	7-20009-06-3	29146	OE506C	1975	REPLACED	YES
82) HEAT EXCHGR (NUTS QTY 4)	PP&L	HT. NO M63434 (NUTS)	29146	OE506C	1997	REPLACEMENT	NO
83) HEAT EXCHGR (STUDS QTY 2)	AMERICAN STANDARD	7-20009-06-3	29146	OE506C	1975	REPLACED	YES
84) HEAT EXCHGR (STUDS QTY 2)	PP&L	HT. NO W1 (NUTS)	29146	OE506C	1997	REPLACEMENT	NO
85) SMALL PIPE ASSMBLY	BECHTEL	N/A	N/A	SP-HRC-9-8	1982	REPLACED	YES
86) SMALL PIPE ASSMBLY	PP&L	HT. NO D25551 (3/4" XXS PIPE)	N/A	SP-HRC-9-8	1997	REPLACEMENT	NO
87) HEAT EXCHANGER	AMERICAN STANDARD	7-20009-01-1	29140	OE507C	1975	REPAIRED	YES
88) SMALL PIPE HANGER CLIP	BECHTEL	N/A	N/A	SP-HRC-9-H2009	1982	REPAIRED	NO

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

1. Owner	<u>Pennsylvania Power &amp; Light Co.</u> Name	Date	<u>August 26, 1998</u>
	<u>Two North Ninth St., Allentown, PA 18101</u> Address	Sheet	<u>10</u> of <u>11</u>
2. Plant	<u>Susquehanna Steam Electric Station</u> Name	Unit	<u>COMMON</u>
	<u>PO Box 467, Berwick, PA 18603</u> Address		<u>SEE ATTACHED LIST</u> Repair Organization P.O. No., Job No., etc.
3. Work Performed by	<u>Pennsylvania Power &amp; Light Co.</u> Name	Type Code Symbol Stamp	<u>None</u>
	<u>Two North Ninth St., Allentown, PA 18101</u> Address	Authorization No.	<u>N/A</u>
		Expiration Date	<u>N/A</u>
4. Identification of System	<u>DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III</u>		
5. (a) Applicable Construction Code	<u>ASME Sec III 19 71</u> Edition,	<u>.thru W72</u> Addenda,	<u>N/A</u> Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements	<u>19</u>	<u>89</u>	
6. Identification of Components Repaired or Replaced and Replacement Components			

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK/ CODE OF CONSTRUCTION	DESCRIPTION OF TESTS	CODE CASE
1	S63200	REMOVE AND REPLACE BODY TO BONNET SEAL WELD TO ADJUST SET POINT, VALVE PSV-03483E /ASME III, 1981 ED. S'81 ADD.	NON-VT-2 PER MI-PS-008	NONE
2-5	S64369	REPLACED STEM/DISC ASSEMBLY AND BACKSEAT BUSHING / ORIGINAL VALVE AND REPLACEMENT STEM/DISC ASSEMBLY: ASME III 1974 ED. W'74 ADD. ; REPLACEMENT BACKSEAT BUSHING ASME III 1986 ED. NO ADD.	NON-VT-2 PER MI-PS-008	NONE
6-9	P62002	REPLACED PIPE PLUG AND BUSHING / INTERCOOLER 1980 ED. S'81 ADD. N316	NON-VT-2 PER MI-PS-008	NONE
10-19	S64892 REF ITEM #72-75 W/A P63824 FOR INSTALLATION	REPLACED INTERCOOLER STUDS & NUTS. WATERBOX ON S/N 841601-3 W/WATERBOX FROM S/N 924602 / INTERCOOLER ASME III 1974 ED S'47 ADD.; REPLACEMENT WATERBOX ASME III 1974 ED. W'76 ADD.; STUDS 1989 ED. NO ADD.;	N/A (SHOP WORK)	NONE
20	P63615	(REPAIR) REMOVED AND REWELDED SMALL PIPE HANGER CLIP.	N/A	NONE
21	P63614	(REPAIR) REMOVED AND REWELDED SMALL PIPE HANGER CLIP.	N/A	NONE
22-24	P63613	REPLACED NUTSON OE505-B1 AND SHORTENED STUDS ON OE505-B2 / OE505-B1: ASMEIII 1974 ED. W'74 ADD; NUTS, ASME III 1989 ED. NO ADD.; OE505-B2: ASME III 1974 ED. W'74 ADD.	VT-2 DURING SE-054-301 temp: 60° F/press.: 116 psig	NONE
25-26	P62767	REPLACED VALVE FLANGE STUDS / SYSTEM & VALVE ASME III 1971 ED. W72 ADD.; NUTS, ASME III 1989 ED. NO ADD.	VT-2 DURING SE-054-301 temp: 60° F/press.: 116 psig	NONE
27-29	S72665	REPLACE VENT COUPLING ON LUBE OIL COOLER / LO CLR ASME III 1974 ED. S74 ADD.;	N/A	NONE
30-34,	P70094	REPAIR CORRODED AREA ON LUBE OIL COOLER OE506A. REPLACE VENT & DRAIN COUPLING AND ASSOCIATED PIPING / OE506A LO CLR: ASME III 1974 ED. S74 ADD.	VT-2 DURING SE-054-301 temp: 58° F/press.: 114 psig	NONE



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     August 25, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           11           of           11            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     COMMON                      
Name  
                    PO Box 467, Berwick, PA 18603                               SEE ATTACHED LIST            
Address Repair Organization P.O. No., Job No., etc.,

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

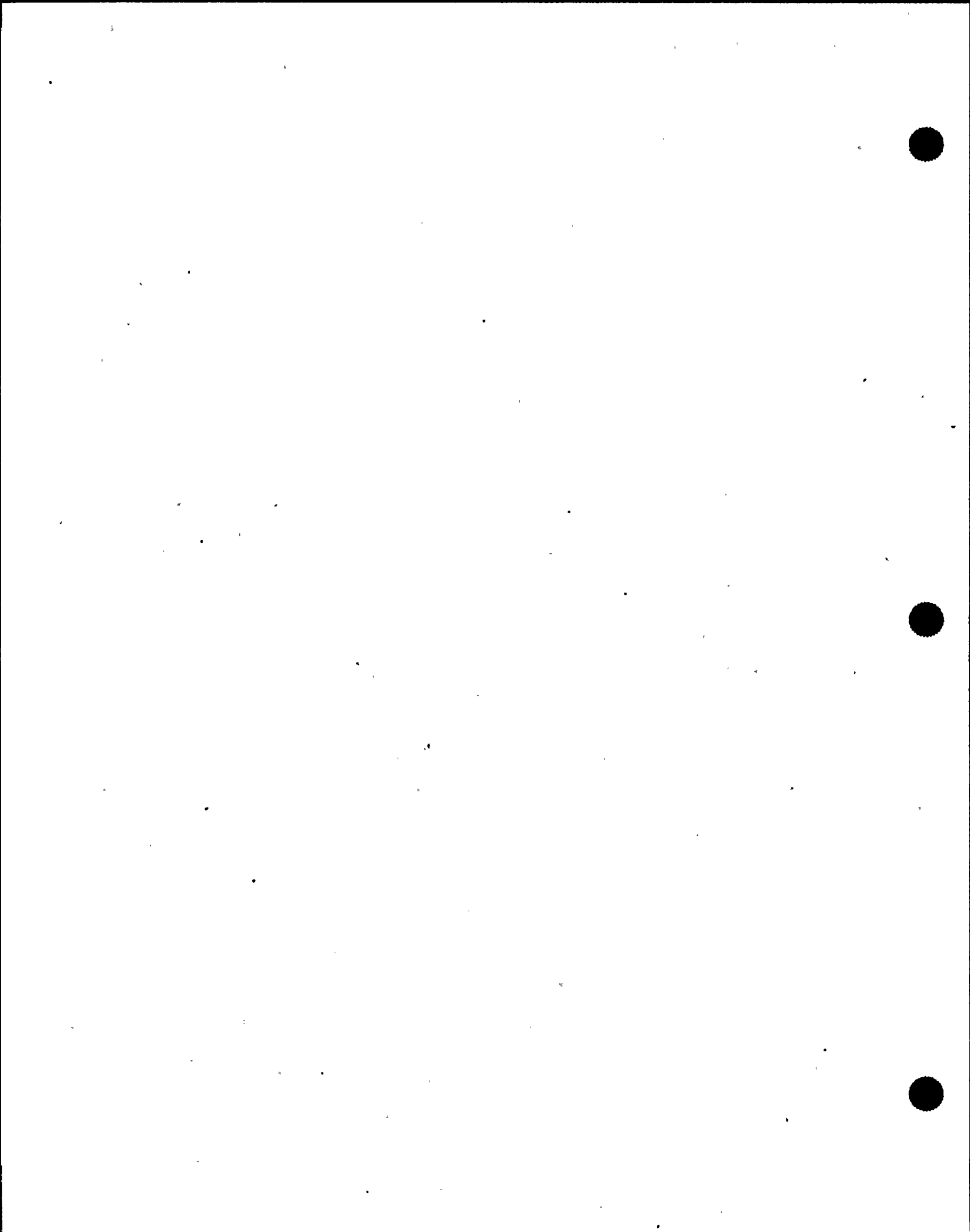
4. Identification of System                     DIESEL GENERATORS AND AUX. SYSTEM 024A, CLASS III                    

5. (a) Applicable Construction Code           ASME Sec III           19           71           Edition,           thru W72           Addenda,           SEE LIST           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK/ CODE OF CONSTRUCTION	DESCRIPTION OF TESTS	CODE CASE
35-36	P70094	REPLACE SMALL PIPE HANGER CLIP	N/A	NONE
37-38	P70093	REPLACE SMALL PIPE HANGER CLIP	N/A	NONE
39-47	P70093	REPAIR CORRODED AREA ON JACKET WATER CLR OE507A, REPLACE VENT & DRAIN COUPLING AND ASSOCIATED PIPE. / OE507A ; ASME III 1974 ED. S74 ADD.; COUPLINGS: ASME III 1974 ED. S74 ADD.; NUTS: ASME III 1989 ED. NO ADD.;	VT-2 DURING SE-054-301 temp: 58° F/press.: 114 psig	NONE
48-51	P70093	REPLACE NUTS, STUDS ON JACKET WATER COOLER / OE507A ; ASME III 1974 ED. S74 ADD. ; NUT: ASME III 1989 ED. NO ADD. ; STUDS: ASME III 1983 ED. W'83 ADD.	NON VT-2 PER MI-PS-008	NONE
52-54	P64880	REMOVE AND REWELD HANGER CLIP, REPLACE PLATE ON SMALL PIPE SUPPORT	N/A	NONE
55-57	P64880	REPAIR CORROSION ON OE506D AND REPLACE NUTS / OE506D: ASME III 1974 ED. S74 ADD.; NUTS: ASME III 89 ED. NO ADD.	NON VT-2 PER MI-PS-003	NONE
58-71	P74477	REPAIR AREAS OF CORROSION ON COOLERS OE505-D1 & OE505-D2, REPLACE DIVIDER PLATE AND REPLACE STUDS AND NUTS /OE505-D1: ASME III 1974 S74 ADD. (S/N 841601-7) ; OE505-D2: ASME III 1974 W76 ADD. (S/N 924601-2); ASME 1989ED. NO ADD.	VT-2 DURING SE-54-301 temp: 54° F/press.: 114 psig	NONE
72-75	P63824	REPLACE COOLERS OE505C1 & C2 WITH REFURBISHED COOLERS / ORIGINAL CLR C1 S/N841601-5: ASME III 1974 ED. S74 ADD. ORIGINAL CLR C2 S/N924601-1 ASME III 1974 W76 ADD. REPLACEMENT CLRS S/N841601-3 & 841601-2 ASME III 1974 ED. S74 ADD.	VT-2 DURING SE-54-301 temp: 60° F/press.: 116 psig	NONE
76-86	P63826	REPAIR WELD ON 16" FLANGES, REPAIR 4" FLANGES REPLACE STUDS AND NUTS, REPLACE VENT AND DRAIN COUPLINGS & PIPE, REPLACE SMALL PIPE HANGER 1/4" PLATE WITH 3/8" PLATE / OE506C: ASME III 1974 S74 ADD.	VT-2 DURING SE-54-301 temp: 60° F/press.: 116 psig	NONE
87-88	P63825	REPAIR JACKET WATER COOLER AND REMOVE AND REINSTALL SMALL PIPE SUPPORT CLIP./ OE507C' ASME III 1974 S74 ADD.	VT-2 DURING SE-54-301 temp: 60° F/press.: 116 psig	N-416-1





FORM FOR NUCLEAR SERVICE VALVES

F. O. 2 3655

1. Manufactured by YARWAY CORPORATION, BLUE BELT, PA. 19422 Order No. 60541  
(Name & Address of Manufacturer)
2. Manufactured for BECHTEL POWER CORPORATION Order No. 2648-N-381-0  
(Name and Address)
3. Owner MISSISSIPPI POWER AND LIGHT COMPANY
4. Location of Plant PORT GIBSON, MISSISSIPPI
5. Pump or Valve Identification NUCLEAR SERVICE VALVES SIZE - 1"  
SERIAL NUMBER(S) B0671 THRU B0695  
(Brief description of service for which equipment was designed)

- (a) Drawing No. 103271-05 Prepared by YARWAY CORPORATION
- (b) National Board No. \_\_\_\_\_
6. Design Conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or Pressure Class 1500 psi (1)  
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1
8. Edition 1974, Addenda Date WINTER 1974, Case No. NONE

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C8	AMS 5385	NOVA/HOWMET CORPORATION	DISC
	C10	AMS 5385	NOVA/HOWMET CORPORATION	DISC
(b) Forgings	B5	SA105	CAPE ANN TOOL COMPANY	BODY
	Y8	SA105	CAPE ANN TOOL COMPANY	BODY
	1764	SA182 Gr. E6a	CYCLOPS CORP.	BACKSEAT BUSHING

M 91-0138  
RECORD PACKAGE  
PAGE 25 OF 99

(1) For manually operated valves only.

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

9 1 1 8 3 2 1 4 2 6

(c) Details:	NONE		
(d) Other Facts:	NONE		

8. Hydrostatic test 5400 psi.

**CERTIFICATION OF DESIGN**

Design information on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND  
 Stress analysis report on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND  
 Design specifications certified by THOMAS K. HABERMAS (I) Prof. Eng. State MISS Reg. No. 6064  
 Stress analysis report certified by HAROLD T. GREGG (I) Prof. Eng. State PA Reg. No. 9053E  
 (I) Signature not required. List name only.

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

Date 12/26, 1979 Signed YARWAY CORPORATION  
N. A. VOLGER  
 Certificate of Authorization No. N 1891 expires OCTOBER 21, 1980

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS MUTUAL INSURANCE CO. OF PHILADELPHIA, PA. have inspected the equipment described in this Data Report on \_\_\_\_\_ and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.  
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12/26, 1979

D. Conley Commission NS 225 PA 2157  
 (Inspector) (National Board, State, Province and No.)

\*PART OF THE FACTORY MUTUAL SYSTEM

No. 91-0138  
 RECORD PACKAGE  
 PAGE 16 OF 29



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

1. Owner Pennsylvania Power & Light Co. Date 8/29/98  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603  
Address
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
- Authorization No. N/A  
 Expiration Date N/A
4. Identification of System EMERGENCY SERVICE WATER SYSTEM 054A, CLASS III.
5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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1) STEM/DISC	YARWAY	5938 (VALVE)	N/A	PI-01104B-R1	1976	REPLACED	YES
2) STEM/DISC	YARWAY	90-1-2W1-B30	N/A	PI-01104B-R1	1992	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	5938 (VALVE)	N/A	PI-01104B-R1	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT.NO 5293	N/A	PI-01104B-R1	1996	REPLACEMENT	NO
5) STEM/DISC	YARWAY	6503 (VALVE)	N/A	PI-01104D-R1	1976	REPLACED	YES
6) STEM/DISC	YARWAY	90-1-2W1-B21	N/A	PI-01104D-R1	1992	REPLACEMENT	YES

7. Description of Work SEE SHEET 3
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  SEE SHEET 3  
 Other  Pressure \* psi Test Temp. \* °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORTS ARE ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date Sept. 21, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period APRIL 5, 1997 to AUG 6 1997 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date SEPT 22 19 98

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

1. Owner Pennsylvania Power & Light Co. Date 8/29/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 3  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System EMERGENCY SERVICE WATER SYSTEM 054A, CLASS III.
5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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7) BACKSEAT BUSHING	YARWAY	6503 (VALVE)	N/A	PI-01104D-R1	1976	REPLACED	YES
8) BACKSEAT BUSHING	YARWAY	HT. NO 5293	N/A	PI-01104D-R1	1996	REPLACEMENT	NO





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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/1/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           3           of           3            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     COMMON                      
Name  
                    PO Box 467, Berwick, PA 18603                               SEE ATTACHED LIST            
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     EMERGENCY SERVICE WATER SYSTEM 054A, CLASS III.                    

5. (a) Applicable Construction Code           ASME Sec III           19           71           Edition,           thru W72           Addenda,           N/A           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK/ CODE OF CONSTRUCTION	DESCRIPTION OF TESTS
1-4	V70579	REPLACE STEM-DISC ASSM'Y & BACKSEAT BUSHING/VALVE ORIGINAL CODE : ASME III 1974 ED. W74 ADD.; STEM-DISC ASSM'Y & BACKSEAT BUSHING: ASME III 1986 ED. NO ADD.	NON-VT-2 PER MI-PS-008
5-8	V70580	REPLACE STEM-DISC ASSM'Y & BACKSEAT BUSHING/ VALVE ORIGINAL CODE : ASME III 1974 ED. W74 ADD.; STEM-DISC ASSM'Y & BACKSEAT BUSHING: ASME III 1986 ED. NO ADD.	NON-VT-2 PER MI-PS-008

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

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

Pg. 1 of 1

Manufactured and certified by Yarway Corporation, 480 Norristown Rd., Blue Bell, PA 19422  
(Name and address of NPT Certificate Holder)

2. Manufactured for B & W Nuclear Services, SPIS, Lynchburg, VA 24506  
(Name and address of purchaser)

3. Location of installation Stock  
(Name and address)

4. Type 969155-06 AMS5385E (disc) 52,000 PSI Min. N/A 1992  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)

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

7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.

8. Nom. thickness (in.) ----- Min. design thickness (in.) ----- Dia. ID (ft & in.) ----- Length overall (ft & in.) -----

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 90-1-2W1-B1	- - - -
(2) 90-1-2W1-B2	- - - -
(3) 90-1-2W1-B3	- - - -
(4) 90-1-2W1-B4	- - - -
(5) 90-1-2W1-B5	- - - -
(6) 90-1-2W1-B6	- - - -
(7) 90-1-2W1-B7	- - - -
(8) 90-1-2W1-B8	- - - -
(9) 90-1-2W1-B9	- - - -
(10) 90-1-2W1-B10	- - - -
(11) 90-1-2W1-B11	- - - -
(12) 90-1-2W1-B12	- - - -
(13) 90-1-2W1-B13	- - - -
(14) 90-1-2W1-B14	- - - -
(15) 90-1-2W1-B15	- - - -
(16) 90-1-2W1-B16	- - - -
(17) 90-1-2W1-B17	- - - -
(18) 90-1-2W1-B18	- - - -
(19) 90-1-2W1-B19	- - - -
(20) 90-1-2W1-B20	- - - -
(21) 90-1-2W1-B21 ✓	- - - -
(22) 90-1-2W1-B22	- - - -
(23) 90-1-2W1-B23 ✓	- - - -
(24) 90-1-2W1-B24 ✓	- - - -
(25) 90-1-2W1-B25	- - - -

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26) 90-1-2W1-B26 ✓	- - - -
(27) 90-1-2W1-B27	- - - -
(28) 90-1-2W1-B28	- - - -
(29) 90-1-2W1-B29 ✓	- - - -
(30) 90-1-2W1-B30 ✓	- - - -
(31) 90-1-2W1-B31	- - - -
(32) 90-1-2W1-B32	- - - -
(33) 90-1-2W1-B33 ✓	- - - -
(34) 90-1-2W1-B34 ✓	- - - -
(35) 90-1-2W1-B35	- - - -
(36) 90-1-2W1-B36	- - - -
(37) 90-1-2W1-B37	- - - -
(38) 90-1-2W1-B38	- - - -
(39) 90-1-2W1-B39	- - - -
(40) 90-1-2W1-B40 ✓	- - - -
(41) 90-1-2W1-B41	- - - -
(42) 90-1-2W1-B42	- - - -
(43) 90-1-2W1-B43	- - - -
(44) 90-1-2W1-B44	- - - -
(45) 90-1-2W1-B45	- - - -
(46) 90-1-2W1-B46 ✓	- - - -
(47) 90-1-2W1-B47 ✓	- - - -
(48) 90-1-2W1-B48	- - - -
(49) 90-1-2W1-B49	- - - -
(50) 90-1-2W1-B50	- - - -

10. Design pressure \* \_\_\_\_\_ psi. Temp. \* \_\_\_\_\_ °F. Hydro. test pressure N/A at temp. °F \_\_\_\_\_  
(when applicable)

\* For ANSI Class 1500 Valves  
\* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8" x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) -Stem & Disc Assemblies, 1"  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1995

Date 21 DEC 92 Name Yarway Corporation Signed *F. W. Peszka*  
(Authorized representative)  
INPT Certificate Holder

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Company\* of Norwood, MA have inspected these items described in this Data Report on 12-21-92, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

\* Factory Mutual System

Date 12-21-92 Signed *M. S. Acosta* Commissions PA 2056 NIBIS  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     3                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     COMMON                      
Name  
                    PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     EMERGENCY SERVICE WATER SYSTEM 054B, CLASS III.                    

5. (a) Applicable Construction Code                     ASME Sec III 19 71                     Edition,                     thru W72                     Addenda,                     N/A                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                    

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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1) LEVEL ELEMENT	FLUID COMPONENTS	2033N	N/A	LE-01201-B2	1992	REPLACED	NO
2) LEVEL ELEMENT	FLUID COMPONENTS	2031N	N/A	LE-01201-B2	1992	REPLACEMENT	NO
3) LEVEL ELEMENT	FLUID COMPONENTS	2512-NA	N/A	LE-01201-A1	1992	REPLACED	NO
4) LEVEL ELEMENT	FLUID COMPONENTS	2033N	N/A	LE-01201-A1	1992	REPLACEMENT	NO
5) SPRAY POND NOZZLES	BECTEL	N/A	N/A	SP-HRC-2-1	1982	REPLACED	YES
6) SPRAY POND NOZZLES	PP&L	N/A	N/A	SP-HRC-2-1	1997	REPLACEMENT	NO

7. Description of Work                     SEE ATTACHED SHEET                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure                     \*                     psi Test Temp.                     \*                     °F SEE ATTACHED SHEET

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

FORM NIS-2 (Back)

9. Remarks NOTE THAT ONLY THE FLANGE OF THE LEVEL ELEMENT IS ASME CODE. CODE OF

Applicable Manufacturer's Data Reports to be attached

CONSTRUCTION FOR SPRAY NOZZLES : ASME III, '74 ED NO ADD.

CERTIFICATION 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 \_\_\_\_\_ N/A \_\_\_\_\_

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

Signed [Signature] Date Sept 21, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period APRIL 2 1996 to MAY 5 1997 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 IBNA PA2159  
National Board, State, Province, and Endorsements

Date SEPT. 22 19 98

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

1. Owner Pennsylvania Power & Light Co. Date 8/31/98  
Name
- Two North Ninth St., Allentown, PA 18101 Sheet 2 of 3  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name
- PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name
- Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address
- Expiration Date N/A
4. Identification of System EMERGENCY SERVICE WATER SYSTEM 054B, CLASS III.
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
7) SPRAY POND NOZZLES	BECTEL	N/A	N/A	SP-HRC-2-2	1982	REPLACED	YES
8) SPRAY POND NOZZLES	PP&L	N/A	N/A	SP-HRC-2-2	1997	REPLACEMENT	NO



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

1. Owner Pennsylvania Power & Light Co. Date 08/31/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 3 of 3  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System EMERGENCY SERVICE WATER SYSTEM 054B, CLASS III.
5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	S57224	REPLACED NON-ASME LEVEL ELEMENT, LE01201B2	VT-2 PER SE-116-301, temp:96 °F/syst pressure: 83 psig
3-4	S67627	REPLACED NON-ASME LEVEL ELEMENT, LE01201A1	VT-2 PER SE-116-301, temp:73 °F/syst pressure: 131 psig
5-8	S64708	REPLACED SPRAY NOZZLES WHICH WERE CAPPED.	VT-2 PER SE-116-301, temp:72 °F/syst pressure: 110 psig



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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/15/98  
Sheet 1 of 4

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit ONE  
SEE ATTACHED LIST  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None  
Authorization No. N/A  
Expiration Date N/A

4. Identification of System RHR SERVICE WATER, 116A, CLASS III.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) 1B RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1153 (CASE)	N/A	1P506B	1978	REPLACED	YES
2) 1B RHR SW PMP TOP CASE	BYRON JACKSON	861W4335-1 (CASE)	N/A	1P506B	1988	REPLACEMENT	YES
3) 1B RHR SW PMP SERIES CASE	BYRON JACKSON	861W4336 (CASE)	N/A	1P506B	1978	REPLACED	YES
4) 1B RHR SW PMP SERIES CASE	BYRON JACKSON	861W4335-2 (CASE)	N/A	1P506B	1987	REPLACEMENT	YES
5) 1B RHR SW PMP SUCTION BELL	BYRON JACKSON	731-S-1153 (SUCTION BELL)	N/A	1P506B	1978	REPLACED	YES
6) 1B RHR SW PMP SUCTION BELL	BYRON JACKSON	861W4335-3 (SUCTION BELL)	N/A	1P506B	1987	REPLACEMENT	YES

7. Description of Work SEE ATTACHED LIST

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

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



FORM NIS-2 (Back)

9. Remarks SEE SHEET 4 OF 4 FOR CODES OF CONSTRUCTION.

Applicable Manufacturer's Data Reports to be attached

ITEM # 18 : VALVE DISC S/N# R1364 REMOVED FROM VLV S/N E5854-104-2 PER WA # V13148.

ITEM # 19 -22 : THESE ITEMS WERE INADVERTANTLY MISSED ON PREVIOUS NIS-2 FORM.

INSTALLATION IN 1P506A PER WA # S23364 PREVIOUSLY REPORTED; UNIT 1, 7TH.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Sept 23, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

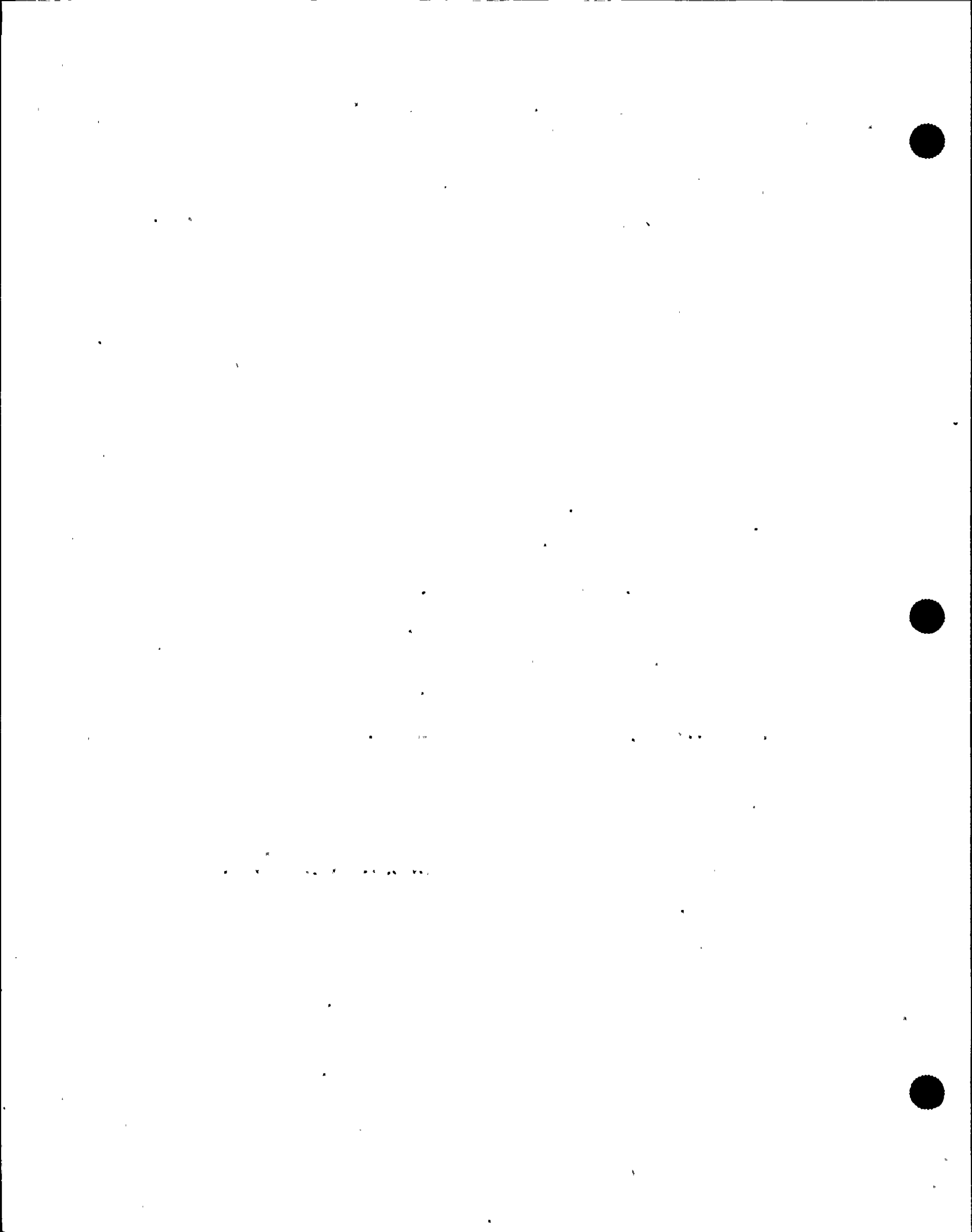
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period MARCH 22, 1997 to MAY 17, 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions: NB 7525 1BNA PA2159  
National Board, State, Province, and Endorsements

Date SEPT. 29 19 98



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

1. Owner Pennsylvania Power & Light Co. Date 9/15/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 4  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

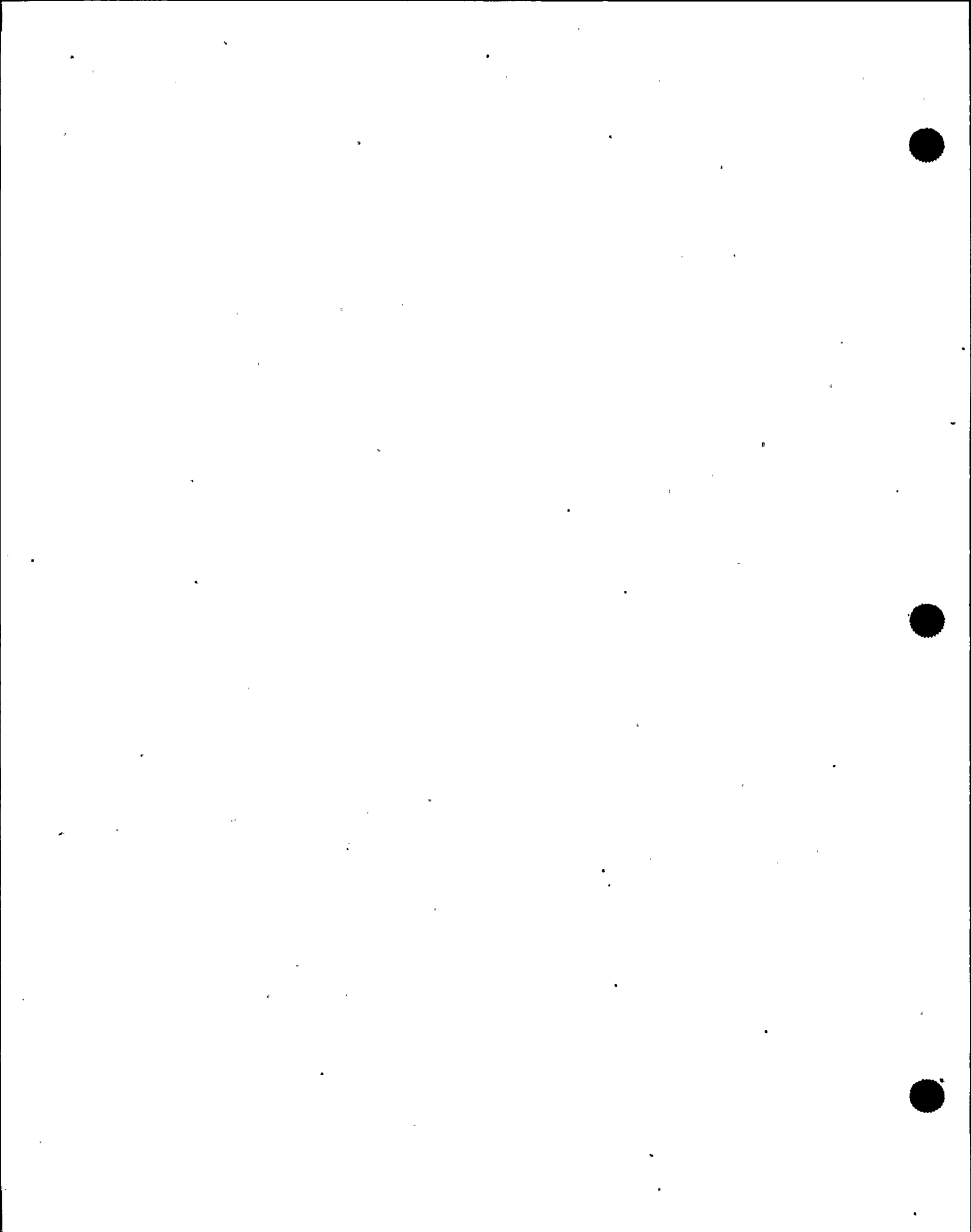
4. Identification of System RHR SERVICE WATER, 116A, CLASS III.

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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7) 1B RHR SW PMP UPPER SERIES COLUMN	BYRON JACKSON	731-S-1154-1 (COLUMN)	N/A	1P506B	1978	REPLACED	YES
8) 1B RHR SW PMP UPPER SERIES COLUMN	BYRON JACKSON	731-S-1155-1 (COLUMN)	N/A	1P506B	1978	REPLACEMENT	YES
9) 1B RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	731-S-1154-2 (COLUMN)	N/A	1P506B	1978	REPLACED	YES
10) 1B RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	731-S-1155-2 (COLUMN)	N/A	1P506B	1978	REPLACEMENT	YES
11) 1B RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	731-S-1154-3 (COLUMN)	N/A	1P506B	1978	REPLACED	YES
12) 1B RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	731-S-1155-3 (COLUMN)	N/A	1P506B	1978	REPLACEMENT	YES
13) 1B RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	731-S-1154-4 (COLUMN)	N/A	1P506B	1978	REPLACED	YES
14) 1B RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	731-S-1155-4 (COLUMN)	N/A	1P506B	1978	REPLACEMENT	YES
15) 1B RHR SW PMP (NUTS/BOLTS) (COLUMNS)	BYRON JACKSON	731-S-1154 (PUMP)	N/A	1P506B	1978	REPLACED	YES



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

1. Owner           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           9/15/98          

Sheet           3           of           4          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           ONE          

          SEE ATTACHED LIST            
Repair Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Type Code Symbol Stamp           None          

Authorization No.           N/A          

Expiration Date           N/A          

4. Identification of System           RHR SERVICE WATER, 116A, CLASS III.          

5. (a) Applicable Construction Code           III           19           71           Edition,           thru W72           Addenda,           N/A           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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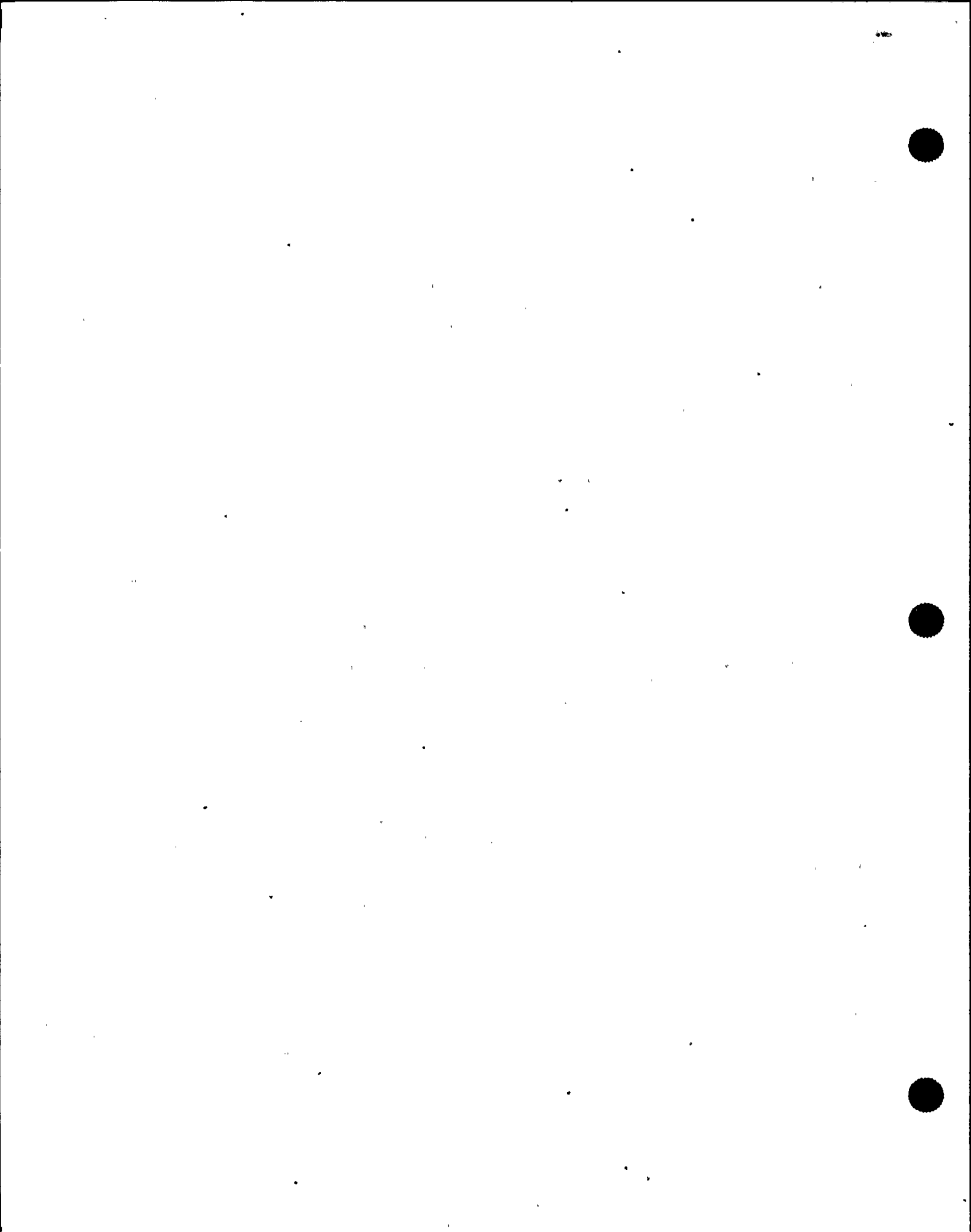
16) 1B RHR SW PMP (NUTS/BOLTS) (COLUMNS)	BYRON JACKSON	N/A	N/A	1P506B	1978	REPLACEMENT	NO
17) CHECK VALVE DISC	ANCHOR DARLING	E5854-101-2 (VALVE)	N/A	112003	1976	REPLACED	YES
18) CHECK VALVE DISC	ANCHOR DARLING	R1364 (DISC)	N/A	112003	1976	REPLACEMENT	YES
19) 1A RHR SW PMP (NUTS/STUDS) (PUMPING ELEM)	BYRON JACKSON	731-S-1155 (PUMP ELEM)	N/A	1P506A	1976	REPLACED	YES
20) 1A RHR SW PMP (NUTS/STUDS) (PUMPING ELEM)	BYRON JACKSON	N/A	N/A	1P506A	1976	REPLACEMENT	NO
21) 1A RHR SW PMP (SUCTION BELL)	BYRON JACKSON	731-S-1154 SUCT BELL	N/A	1P506A	1978	REPLACED	YES
22) 1A RHR SW PMP (SUCTION BELL)	BYRON JACKSON	202944 SUCT BELL	N/A	1P506A	1989	REPLACEMENT	YES
23) 1B RHR SW PMP (NUTS/STUDS) (PUMPING ELEM)	BYRON JACKSON	861W4335	N/A	1P506B	1978	REPLACED	YES
24) 1B RHR SW PMP (NUTS/STUDS) (PUMPING ELEM)	BYRON JACKSON	N/A	N/A	1P506B	1978	REPLACEMENT	NO

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

1. Owner Pennsylvania Power & Light Co. Date 9/12/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 4 of 4  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by, Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System RHR SERVICE WATER, 116A, CLASS III
5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W'72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	CODE REPAIR FORM NUMBER	WORK AUTHORIZATION	DESCRIPTION OF WORK/ CODE OF CONSTRUCTION	DESCRIPTION OF TESTS
1-6	93-116-002	S23365	1P506B REPLACED BOWL ASSM WITH REBUILT UNIT FROM WA # 14294/ ASME III 1971 ED W'72 ADD.	VT-2 PER SE-116-301 90 PSI AT 68° F
7-14	93-116-004	S23365	1P506B REPLACED 4 COLUMNS WITH REBUILT FROM SPARE. / SN 861W4335 ASME III 1971 ED. W' 71 ADD.	VT-2 PER SE-116-301 90 PSI AT 68° F
15-16	95-116-003	S23365	REPLACED NUTS AND STUDS WITH NEW/ ASME III 1971 ED. W'71 ADD.	VT-2 PER SE-116-301 90 PSI AT 68° F
17-18	97-116-001	P62211	112003 REPLACED VALVE DISC. /ORG VLV & REPLACEMENT DISC : ASME III 1971 ED W'72 ADD CODE CASE 1516-1 & 1534.	VT-2 PER SE-116-301 90 PSI AT 39° F
19-22	93-216-002	V14295	REPLACED SUCTION BELL AND NUTS & STUDS DURING SHOP REFURBISHMENT ACTIVITES/ ORIG PMP ASME III 1971 ED. W '72 ADD. ; NEW END BELL ASME III 1980 ED. W '80 ADD.	N/A; SHOP WORK INSTALLATION IN 1P506A PER WA # S23364 (SEE REMARKS SECTION)
23-24	94-216-001	V14294	REPLACED NUTS & STUDS DURING SHOP REFURBISHMENT ACTIVITES/ ORIG PMP ASME III 1971 ED. W '72 ADD.	N/A; SHOP WORK INSTALLATION IN 1P506B PER WA # S23365





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

As Required by the Provisions of the ASME Code, Section III, Division 1  
Not To Exceed One Day's Production

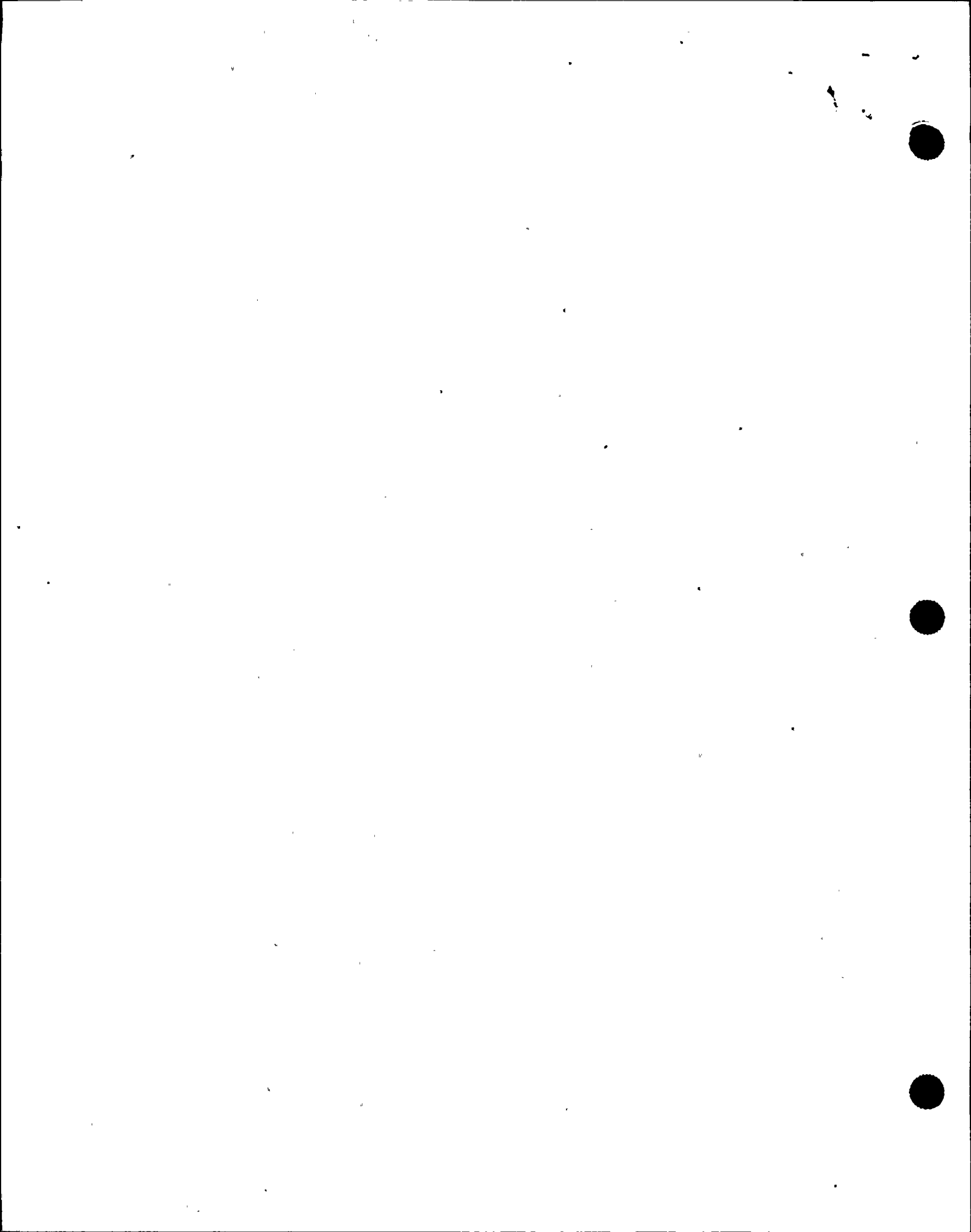
1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC PUMP DIV. LOS ANGELES OPERATORS  
2300 EAST VERNON AVE VERNON CALIFORNIA 90052  
(name and address of certificate holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO., TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101  
PENNSYLVANIA POWER & LIGHT CO. (name and address of purchaser)
3. Location of installation 5 MI. NE OF BERWICK ON ROUTE 11, BERWICK, PA. 18603  
(name and address)
4. Type 409286 REV. A SA-216 GR. WCB 70,000 P.S.I. N/A 1987  
(drawing no) (mat'l. spec. no.) (tensile strength) (CRM) (year built)
5. ASME Code, Section III: 71 W' 72 3 N/A  
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(No.)
7. Remarks: JOB NUMBER- 861W4335 PART NAME- TOP CASE

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 861W4335-1	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 165 psi Temp. 104 °F. Hydro. test pressure 248 PSI/67 at temp °F  
(when applicable)

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



CERTIFICATE OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this ~~(N/A)~~ TOP CASE conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. N-1131 Expires JUNE 16 1987

Date 27 March 87 Name DORG-WARNER INDUSTRIAL PRODUCTS INC. Signed [Signature]  
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of CALIFORNIA and employed by ARKWRIGHT BOSTON MFG. MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of NORWOOD, MASS. have inspected these items described in this data report on 27 March 1987 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 3/27/87 Signed [Signature] Commissions CALIF. 1408 PA/WC-2457  
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) state or prov. and no.)

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

As Required by the Provisions of the ASME Code, Section III, Division 1  
Not To Exceed One Day's Production

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC. DIV. LOS ANGELES OPERATORS  
2300 EAST VERNON AVE. VERNON CALIFORNIA 90088  
(name and address of certificate holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO., TWO NORTH NINTH STREET, ALLENTOWN, PA. 1810  
PENNSYLVANIA POWER & LIGHT CO. (name and address of purchaser)
3. Location of installation 3 MI. NE OF BERWICK ON ROUTE 11, BERWICK, PA. 18603  
(name and address)
4. Type 409299 REV. B SA-216 GR. WCB 70,000 P.S.I. N/A 1987  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 71 W-72 3 N/A  
(edition) (addenda) (cases) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(No.)
7. Remarks: JOB NUMBER - 861W4335 PART NAME - SERIES CASE

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 861W4335-2	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 80 psi Temp. 104 °F. Hydro. test pressure 120 PSI/7A at temp. °F  
(when applicable)

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

CERTIFICATE OF DESIGN

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this PROOF SERIES CASE  
conform to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization no. N-1131 Expires JUNE 16 1987

Date 27 March 87 Name BORG-WARNER INDUSTRIAL PRODUCTS Signed [Signature]  
(NPT Certificate holder) INC. (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of CALIFORNIA and employed by ARROWRIGHT BOSTON MFG. MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of NORWOOD, MASS. have inspected these items described in this data report on 27 March 1987 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 3/27/87 Signed [Signature] Commissions CALIF. 1408 PA-WC-2457  
(Authorized Inspector) (Natl Bd (incl endorsement) state or prov and no.)

CERTIFICATE OF DESIGN

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

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization no. N-1131 Expires JUNE, 16 1987

Date 27 March 87 Name BORG-WARNER INDUSTRIAL PRODUCTS INC. Signed [Signature]  
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of CALIFORNIA and employed by ARROWRIGHT BOSTON MFG. MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of NORWOOD, MASS. have inspected these items described in this data report on 27 March 1987 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 3/27/87 Signed [Signature] Commissions CALIF. 1408.PA-WC-2457  
(Authorized Inspector) (Natl Bd (incl endorsements) state or prov and no.)

7





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

As Required by the Provisions of the ASME Code, Section III, Division 1  
Not To Exceed One Day's Production

1. Manufactured and certified by EDG-VALVE INDUSTRIAL PRODUCTS INC. FORM DIV. LOS ANGELES OPERATORS  
2300 EAST VERNON AVE VERNON CALIFORNIA 90058  
(name and address of certificate holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO., TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101  
PENNSYLVANIA POWER & LIGHT CO. (name and address of purchaser)
3. Location of installation 5 MI. NE OF BERWICK ON ROUTE 11, BERWICK, PA. 18603  
(name and address)
4. Type 307360 REV. A SA-216 GR. WCB 70,000 P.S.I. N/A 1987  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRM) (year built)
5. ASME Code, Section III: 71 W 72 3 N/A  
(section) (appendix) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(No.)
7. Remarks: JOB NUMBER - 861W4335 PART NAME - SUCTION BELL

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 861W4335-3	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 80 psi Temp. 104 °F. Hydro. test pressure 120 PSI/74 at temp. °F  
(when applicable)

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

Handwritten mark or signature in the top right corner.



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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Company Order No. E5854  
701 First St., Williamsport, Pa. 17701  
(Name & Address of Manufacturer)
2. Manufactured for Bechtel Corporation Order No. 8856-P-12-A  
Box 3965, San Francisco, Calif. 94119  
(Name and Address)
3. Owner Pennsylvania Power & Light Company
4. Location of Plant Salem Township, Luzerne County, Pennsylvania
5. ~~XXXX~~ Valve Identification E5854-104-2

20" 150# FLANGED END LEVER ACTUATED SWING CHECK VALVE  
(Brief description of service for which equipment was designed)

- (a) Drawing No. 93-14057 REV. 0 Prepared by Anchor/Darling Valve Company
- (b) National Board No. N/A
6. Design Conditions 275 psi 100 °F  
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 3  
 Edition 1971, Addenda Date Winter 1972, Case No. 1516-1 and 1534

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
BODY HT# - 1721-DT S/N# - R1316	SA-216-WCB	DODGE FOUNDRY	
DISC HT# - 1701-DA2 S/N - R1364	SA-216-WCB	DODGE FOUNDRY	
(b) Forgings			
N/A			

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
BONNET STUD HT-51496	SA-193-B7	R.E.C. CORP.	
BONNET NUT HT# = 577N3011	SA-194-2H	VITCO NUCLEAR PRODUCTS	
(d) Other Parts			
BONNET HT# - T25363 S/N - 1	SA-515-70	UNITED STATES STEEL	

8. Hydrostatic test 425 psi.

CERTIFICATION OF DESIGN

Design information on file at Bechtel Corp., Box 3965, San Francisco, Calif. 94119  
 Stress analysis report on file at N/A (Class 3)  
 Design specifications certified by Frederick C. A. Dowsett (1) Prof. Eng. State Pa. Reg. No. 19854-E  
 Stress analysis report certified by N/A (Class 3) (1) Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_  
 (1) Signature not required. List name only.

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

Date 10/20 19 76 Signed Anchor/Darling Valve Co. By R L Stannert  
(Manufacturer)  
R. L. Stannert  
 Certificate of Authorization No. N779 expires 3-4-77

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of ~~Massachusetts~~ Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 1-22 thru 10-20 19 76, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-20 19 76

Russell E. Montgomery Commissions Pennsylvania WC972  
(Inspector) (National Board, State, Province and No.)

8 9 1 0 9 1 1 6 6 8

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

As Required by the Provisions of the ASME Code, Section III, Division 1  
Not To Exceed One Day's Production

Pg 1 of 2

1. Manufactured and certified by COAG-WAHLER INDUSTRIAL PRODUCTS, INC., PUMP DIVISION  
3824 ANTONIA STREET, 2ND FLOOR, EAST VERNON, CALIF. 90028  
(name and address of certificate holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO.  
712 NORTH NINTH STREET, ALLENTOWN, PA 18101  
(name and address of purchaser)
3. Location of installation PENNSYLVANIA POWER & LIGHT CO.  
ENQUANNO 383 STREET, 5 MI. NE OF BERWICK ON RTE. 11, BERWICK, PA. 18603  
(name and address)
4. Type 409299 ROL B ASME SA-216 GR. WES 70,000 PSI N/A 1987  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 71 W'72 3 N/A  
(edition) (addenda) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(No.)
7. Remarks: JOB NUMBER: B61W4336 PART NAME: SERIES CASE

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft. & in.) N/A Length-overall (ft. & in.) N/A
9. When applicable, Certificate Holders' data reports are attached for each item of this report: .....

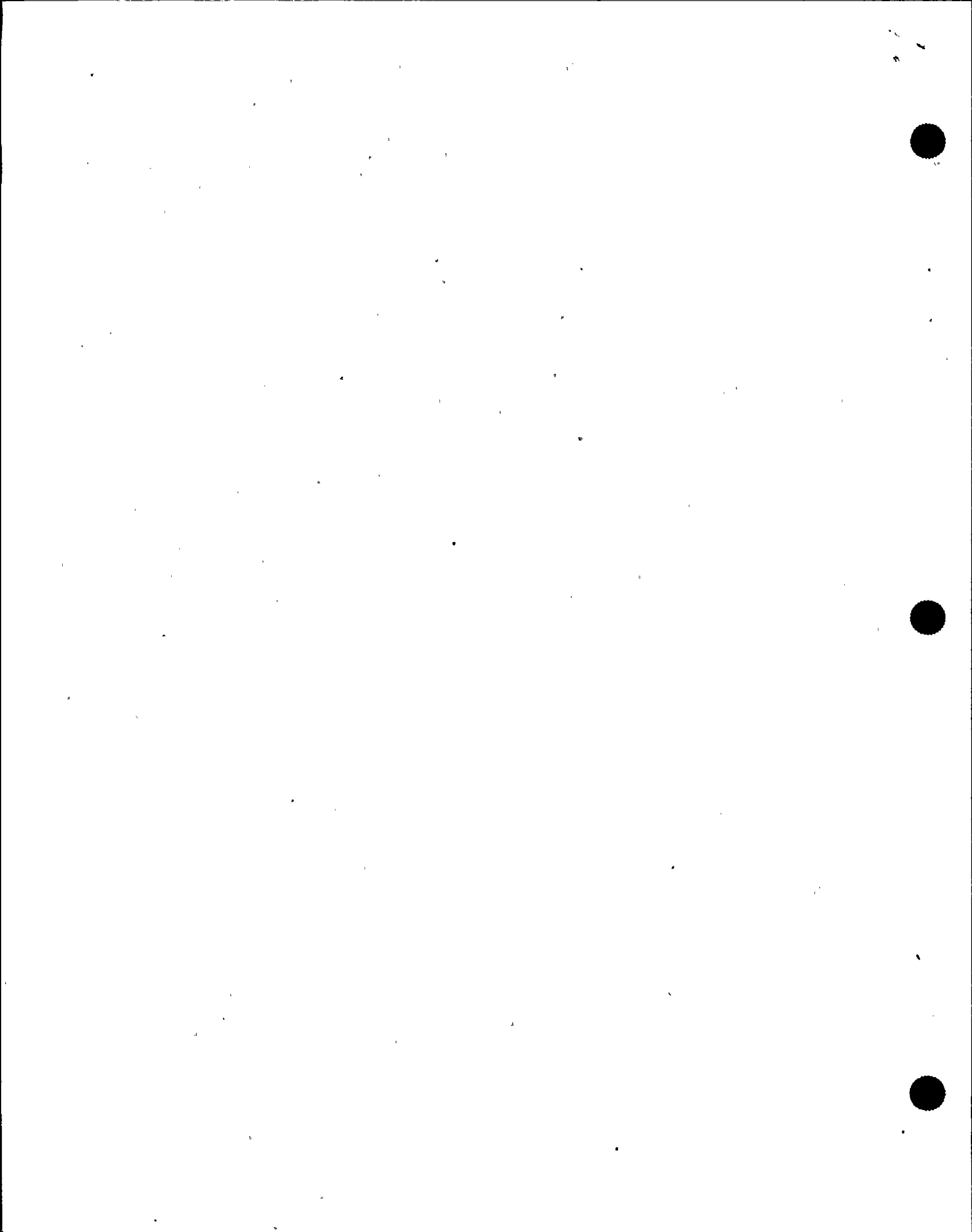
Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) <u>B61W4336</u>	<u>N/A</u>
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
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(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
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(48)	
(49)	
(50)	

No. 87-0350  
 RECORD PACKAGE  
 PAGE 7 OF 28

10. Design pressure 80 psi Temp. 104 °F. Hydro. test pressure 120 PSI / 62° E at temp. °F.  
(when applicable)

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



Mfr. Serial No. 861W4336

CERTIFICATE OF DESIGN

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

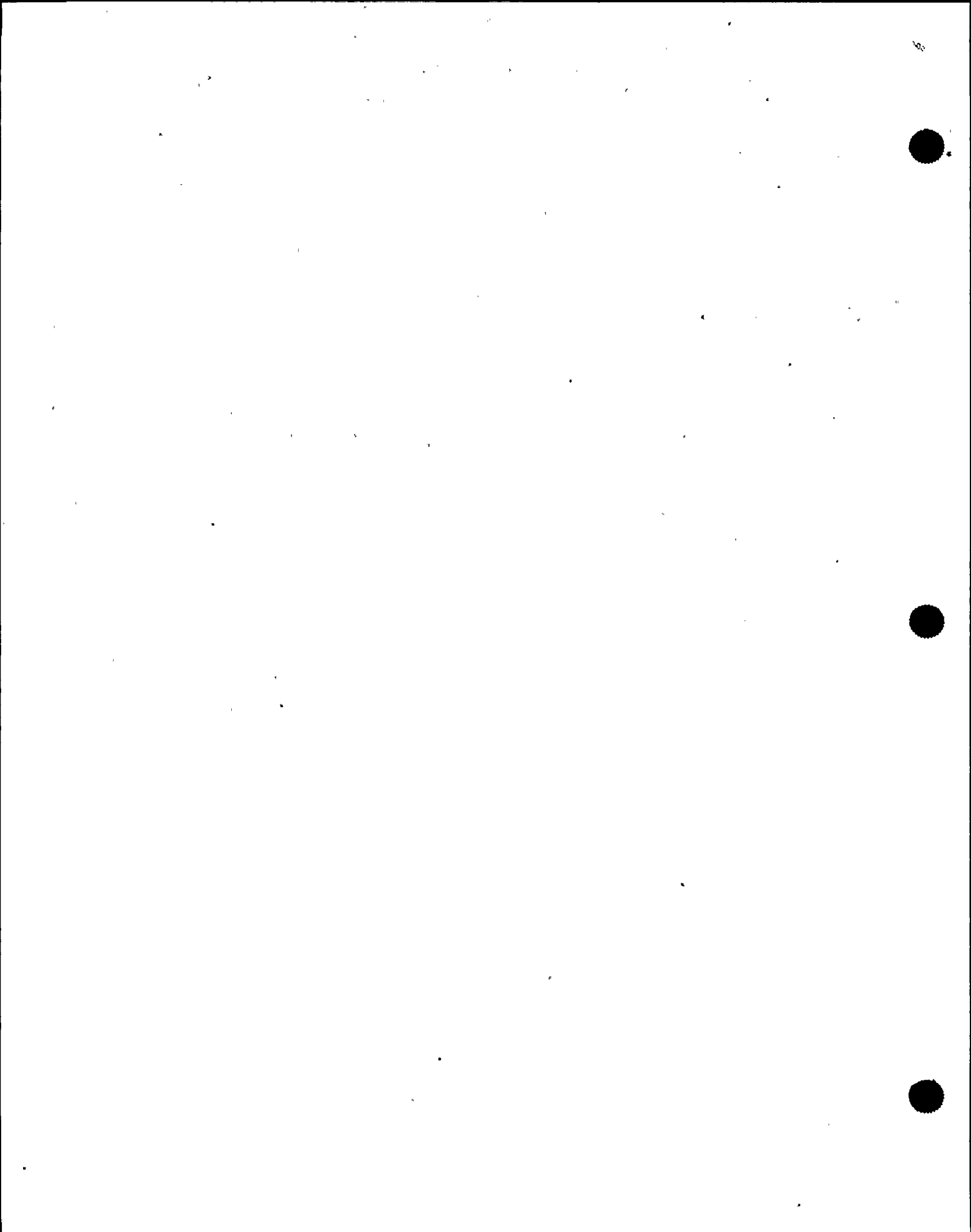
CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) SERIES CASE  
conform to the rules of construction of the ASME Code, Section III.  
ASME Certificate of Authorization no. N-1131 Expires JUNE 16, 1987  
Date 2/26/87 Name Case-Warner Industrial Products, Inc. Signed: [Signature]  
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of CALIFORNIA and employed by ARKWRIGHT BOSTON REC. MUTUAL INSURANCE CO\* of NORWOOD, MASS. have inspected these items described in this data report on 26 February 1987 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this data report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. \* FACTORY MUTUAL SYSTEM  
Date 2/26/87 Signed: [Signature] Commissions CALIF. 1408-PA-WC-2457  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsement) state or prov. and no.)

No. 87-0350  
RECORD PACKAGE  
PAGE 5 OF 28





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

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

1. Manufactured and certified by 2100 PLYWOOD AVE., VICTOR, CALIF., 93581  
(Name and address of NPT Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT COMPANY  
(Name and address of purchaser)

3. Location of installation 2 MI. NE OF BERRICK ON US RT 11, BERRICK, PA 18603  
(Name and ZIP code)

4. Type 307360 REV.C SA-216 GR. NCB 70,000 PSI MIN. N/A 1989  
(Drawing no.) (Mat'l. spec. no.) (Nominal strength) (CRN) (Year built)

5. ASME Code, Section III: \* 1971 WINTER 1972 3 N/A  
(Edition) (Issuance date) (Section) (Code Case no.)

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

7. Remarks: PH/IP JOB NO. 891-R-3601 PAS. WMP - SECTION BELL

\*INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III, 1980 EDITION WINTER 1980 ADDENDA.

8. Nom. thickness (in.) .750 Min. design thickness (in.) .500 Dia. Ø (ft & in.) 2'6" Length overall (ft & in.) 1'4.5"

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board Number In Numerical Order
(1) 202944	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	90-0022
(20)		(45)	
(21)		(46)	4-0022
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 80 psi. Temp. 104 °F. Hydro. test pressure 120 PSI/NO. 1 at temp. °F  
(when applicable)

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

(12/86)

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

93053211833  
90073221475

Not to be used for identification of parts of the same code and work item.

Design specifications certified by W/A Reg. no. W/A

Design report\* certified by W/A Reg. no. W/A

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this W/A SECTION VIII conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1131 Expires JUNE 16, 1990

Date 21 Dec '89 Name EM/IP INTERNATIONAL, INC. Signed [Signature]

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. (FACTORY MUTUAL SYSTEM) of WORWOOD, MASS. have inspected these items described in this Data Report on DEC. 22, 1989 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/22/89 Signed [Signature] Commissions 1275 CA. WCO2380 PA.

NO. 90-00027  
 DEC 22 1989  
 5 OF 22

93055211889  
 90073221476

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

1. Owner <u>          Pennsylvania Power &amp; Light Co.          </u> <small>Name</small>	Date <u>          8/31/98          </u>
<u>          Two North Ninth St., Allentown, PA 18101          </u> <small>Address</small>	Sheet <u>          1          </u> of <u>          3          </u>
2. Plant <u>          Susquehanna Steam Electric Station          </u> <small>Name</small>	Unit <u>          ONE          </u>
<u>          PO Box 467, Berwick, PA 18603          </u> <small>Address</small>	<u>          SEE ATTACHED LIST          </u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>          Pennsylvania Power &amp; Light Co.          </u> <small>Name</small>	Type Code Symbol Stamp <u>          None          </u>
<u>          Two North Ninth St., Allentown, PA 18101          </u> <small>Address</small>	Authorization No. <u>          N/A          </u>
	Expiration Date <u>          N/A          </u>

4. Identification of System           CORE SPRAY PUMP ROOM COOLING SYSTEM 134D, CLASS III.          

5. (a) Applicable Construction Code           ASME Sec III           19           71           Edition, thru W72 Addenda,           N/A           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          , CODE CASE N416-1.

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)
1) FLEX HOSE (LOWER)	ANACONDA	NOT KNOWN	N/A	1E231B	1987	REPLACED	NO
2) FLEX HOSE (LOWER)	ANAMET	061496520647-01-005	N/A	1E231B	1996	REPLACEMENT	NO
3) FLEX HOSE (UPPER)	ANACONDA	NOT KNOWN	N/A	1E231B	1987	REPLACED	NO
4) FLEX HOSE (UPPER)	ANAMET	061496520647-01-004	N/A	1E231B	1996	REPLACEMENT	NO
5) HEAT EXCHANGER	AEROFIN	900632	N/A	1E231A	1990	REPAIRED	YES
6) HEAT EXCHANGER	AEROFIN	900633	N/A	1E231A	1990	REPAIRED	YES

7. Description of Work           SEE ATTACHED LISTING          

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

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

FORM NIS-2 (Back)

9. Remarks FLEX HOSES ARE CONSTRUCTED TO ANSI B31.1.; SP-HRC-122-2 REPLACEMENT PIPE

Applicable Manufacturer's Data Reports to be attached

CONSTRUCTED TO ASME III 1986 ED. NO ADD. ORIGINAL CODE OF CONSTRUCTION

FOR AEROFIN HEAT EXCHANGERS ASME VIII DIV 1 1986 ED. NO ADD. CODE CASE 1997-2.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept 21 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period OCT 21, 1998 to OCT. 25 1997 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Date SEPT 22 19 98

FACTORY MUTUAL ENGRG. ASSOC.

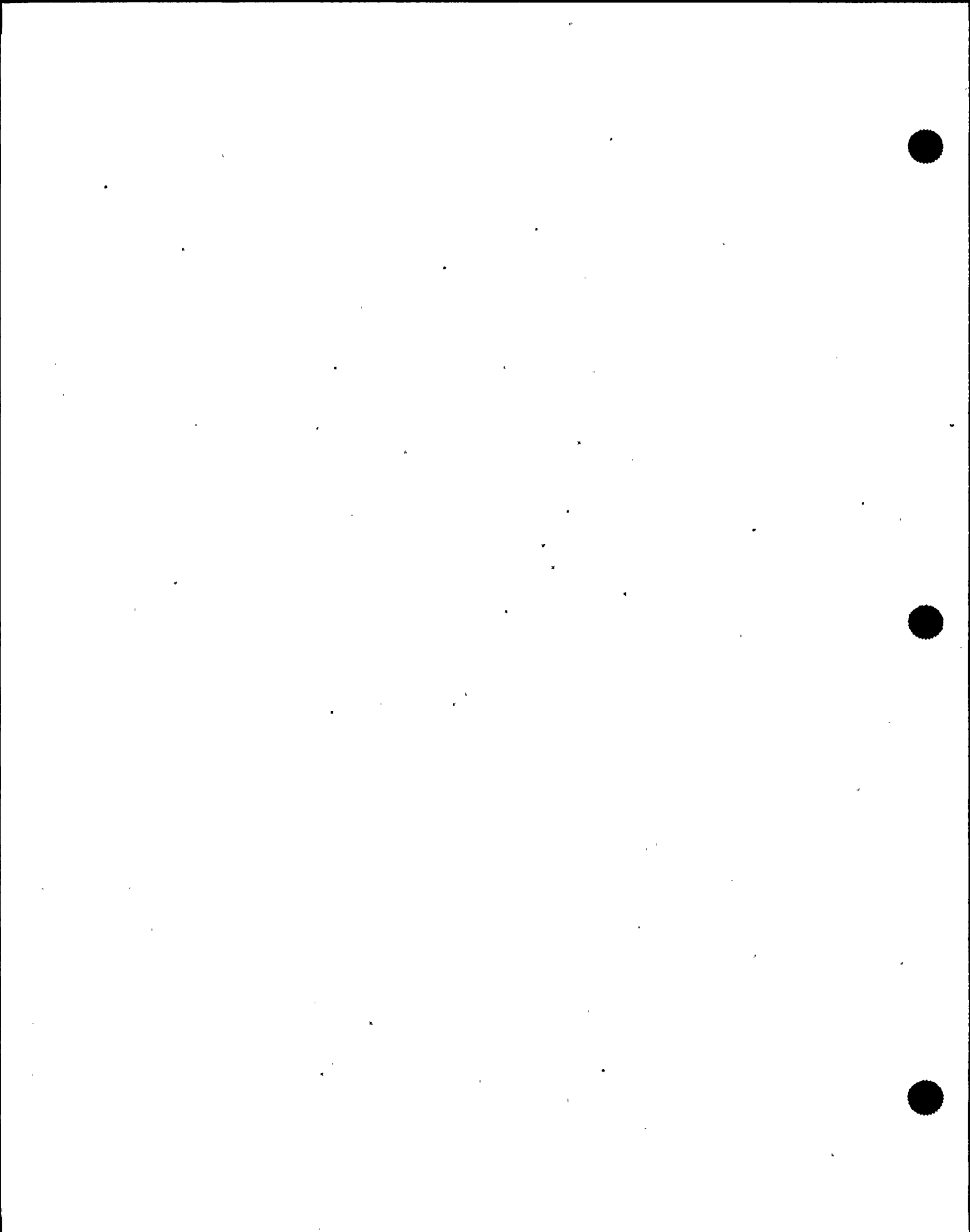
Commissions NB 7525 IBNA AA2159  
National Board, State, Province, and Endorsements

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

1. Owner Pennsylvania Power & Light Co. Date 8/31/98  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit TWO  
Name  
PO Box 467, Berwick, PA 18603  
Address  
 SEE ATTACHED LIST  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System CORE SPRAY PUMP ROOM COOLING SYSTEM 234D, CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, CODE CASE N416-1.
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)
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7) HEAT EXCHANGER	AEROFIN	900634	N/A	1E231C	1990	REPAIRED	YES
8) HEAT EXCHANGER	AEROFIN	900635	N/A	1E231C	1990	REPAIRED	YES
9) HEAT EXCHANGER	AEROFIN	900636	N/A	1E231B	1990	REPAIRED	YES
10) HEAT EXCHANGER	AEROFIN	900637	N/A	1E231B	1990	REPAIRED	YES
11) HEAT EXCHANGER	AEROFIN	900638	N/A	1E231D	1990	REPAIRED	YES
12) HEAT EXCHANGER	AEROFIN	900639	N/A	1E231D	1990	REPAIRED	YES
13) LOWER FLEX HOSE (UPPER)	ANACONDA	694-507645-01	N/A	1E231D	1994	REPLACED	NO
14) LOWER FLEX HOSE (UPPER)	ANAMET	794-508841-03-001	N/A	1E231D	1994	REPLACEMENT	NO
15) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-122-2	1982	REPLACED	YES
16) SMALL PIPE ASSEMBLY	PP&L	HT. NO D6A0652	N/A	SP-HRC-122-2	1997	REPLACEMENT	NO
17) SMALL PIPE HANGER	PP&L	N/A	N/A	SP-HRC-122-H1	1982	REPAIRED	NO



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     3                     of                     3                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603 .                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     CORE SPRAY PUMP ROOM COOLING SYSTEM 134D, CLASS III                    

5. (a) Applicable Construction Code                     ASME Sec III                     19                     71                     Edition,                     thru W72                     Addenda,                     N/A                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                     , CODE CASE N416-1.

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	S65002	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-054-301 temp:71 °F/press.:111psig
3-4	S65001	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-054-301 temp:71 °F/press.:111psig
5-6	P70417	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 temp:53 °F/press.:115 psig
7-8	P70418	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 temp:53 °F/press.:115 psig
9-10	P71793	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 temp:58 °F/press.:115 psig
11-12	P71794	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 temp:58 °F/press.:115 psig
13-14	P71794	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-054-301 temp:58 °F/press.:115 psig
15-17	S74472	REPLACED SMALL PIPE AND REPAIR HANGER CLIP	VT-2 PER SE-054-301 temp:53 °F/press.:115 psig

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

1. Owner Pennsylvania Power & Light Co. Date 8/31/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 2  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System HPCI PUMP ROOM COOLING SYSTEM 134E, CLASS III.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, CODE CASE N416-1.

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)
1) HEAT EXCHANGER	AEROFIN	900613	N/A	1E229B	1990	REPAIRED	YES
2) HEAT EXCHANGER	AEROFIN	900612	N/A	1E229A	1990	REPAIRED	YES
3) LOWER FLEX HOSE	ANAMET	004	N/A	1E229B	1987	REPLACED	NO
4) LOWER FLEX HOSE	ANAMET	994-509826-02-001	N/A	1E229B	1994	REPLACEMENT	NO
5) UPPER FLEX HOSE	ANAMET	105144	N/A	1E229B	1993	REPLACED	NO
6) UPPER FLEX HOSE	ANAMET	061496520647-01-001	N/A	1E229B	1996	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LISTING

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

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



FORM NIS-2 (Back)

9. Remarks FLEX HOSES ARE CONSTRUCTED TO ANSI B31.1. ORIGINAL CODE OF CONSTRUCTION

Applicable Manufacturer's Data Reports to be attached

FOR AEROFIN HEAT EXCHANGERS ASME VIII DIV 1 1986 ED. NO ADD. CODE CASE 1997-2.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 9/23, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period JAN 22 1998 to MARCH 2, 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

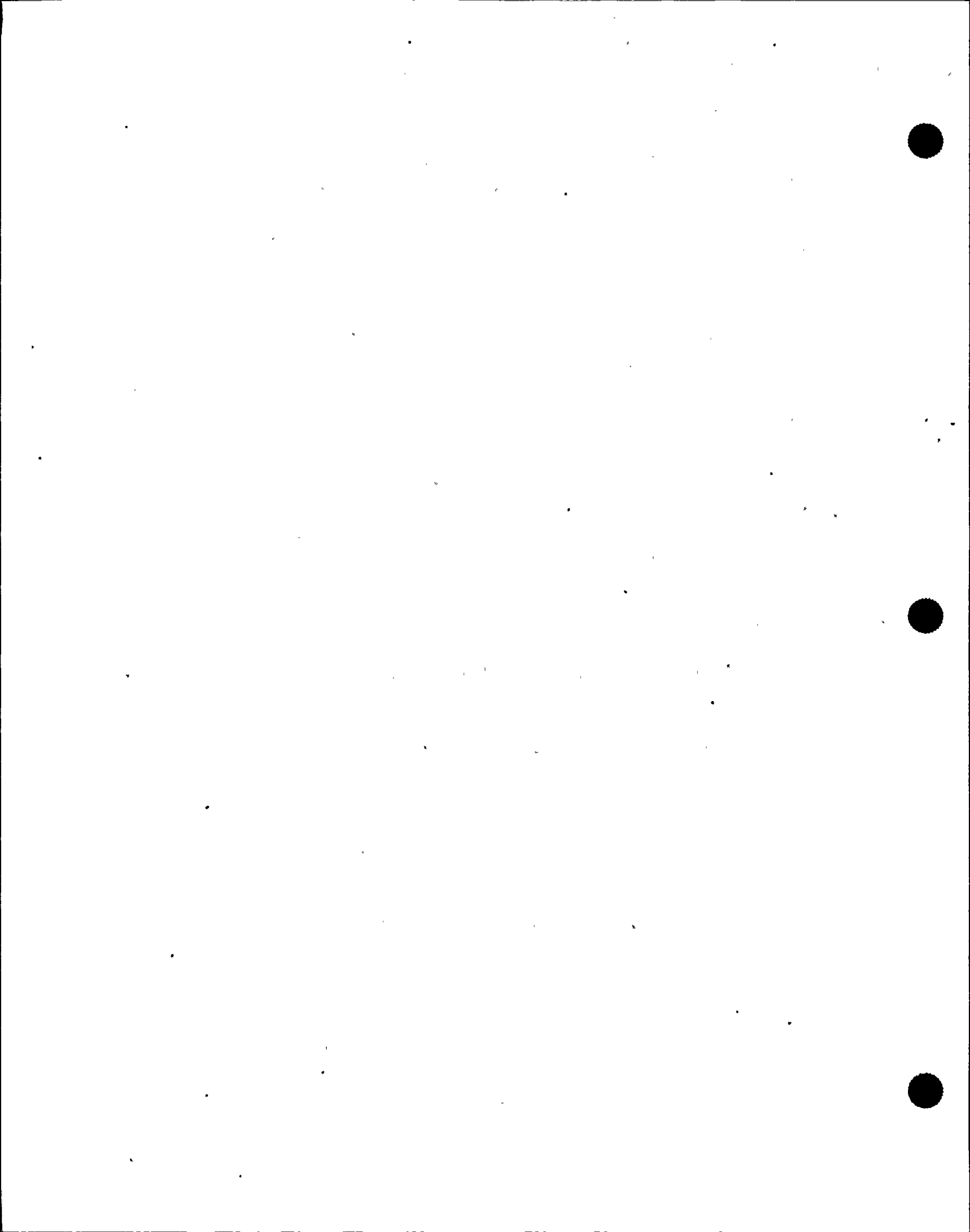
FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 IBNA PA2159  
National Board, State, Province, and Endorsements

Date SEPT. 29 19 98

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           2           of           2            
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A
4. Identification of System                     HPCI PUMP ROOM COOLING SYSTEM 134E, CLASS III
5. (a) Applicable Construction Code           ASME Sec III           19           71           Edition,           thru W72           Addenda,           N/A           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          , CODE CASE N416-1.
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1	P71760	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 temp:39 °F/press.:114 psig
2	P71759	REPAIRED HEADER LIGAMENTS BY WELDING	VT-2 PER SE-054-301 temp:37 °F/press.:115 psig
3-6	S86021	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-054-301 temp:43 °F/press.:80 psig



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     3                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RCIC PUMP ROOM COOLING SYSTEM 134F, CLASS III.                    

5. (a) Applicable Construction Code                     ASME Sec III . 19 71                     Edition,                     thru W72                     Addenda,                     N/A                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                    , CODE CASE N416-1.

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)
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1) FLEX HOSE (UPPER)	ANAMET	0291-19251-03-16	N/A	1E228A	1991	REPLACED	NO
2) FLEX HOSE (UPPER)	ANAMET	091495517500-01-005	N/A	1E228A	1996	REPLACEMENT	NO
3) HEAT EXCHANGER	AEROFIN	900608	N/A	1E228A	1990	REPAIRED	YES
4) HEAT EXCHANGER	AEROFIN	900609	N/A	1E228B	1990	REPAIRED	YES
5) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SP-HRC-120-2	1982	REPLACED	YES
6) SMALL PIPE ASSEMBLY	PP&L	HT: NO M63434	N/A	SP-HRC-120-2	1998	REPLACEMENT	NO

7. Description of Work                     SEE ATTACHED LISTING                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  SEE ATTACHED LIST.  
 Other  Pressure \_\_\_\_\_ psl Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks FLEX HOSES ARE CONSTRUCTED TO ANSI B31.1., ORIGINAL CODE OF CONSTRUCTION  
Applicable Manufacturer's Data Reports to be attached  
FOR AEROFIN HEAT EXCHANGERS ASME VIII DIV 1 1986 ED. NO ADD. CODE CASE 1997-2.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept 10, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period FEB 16 1996 to APRIL 3 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

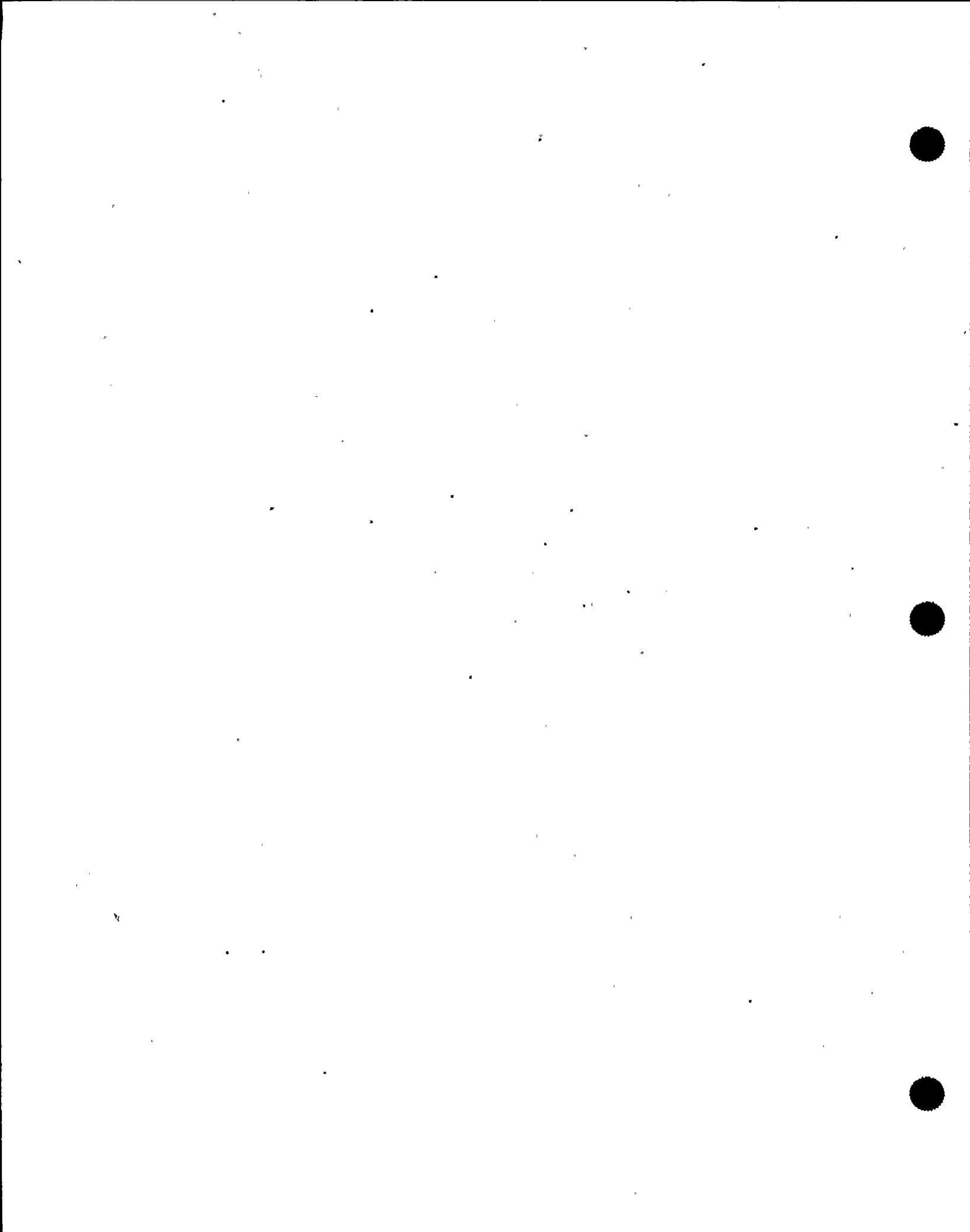
Date SEPT 11, 19 98

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

1. Owner Pennsylvania Power & Light Co. Date 8/31/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 3  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System RCIC PUMP ROOM COOLING SYSTEM 134E, CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, CODE CASE N416-1.
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)
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7) UPPER FLEX HOSE	ANAMET	091495517500-01-005	N/A	1E228A	1996	REPLACED	NO
8) UPPER FLEX HOSE	ANAMET	061496520647-01-003	N/A	1E228A	1996	REPLACEMENT	NO
9) LOWER FLEX HOSE	ANAMET	001	N/A	1E228A	1993	REPLACED	NO
10) LOWER FLEX HOSE	ANAMET	994-509826-02-002	N/A	1E228A	1994	REPLACEMENT	NO
11) UPPER FLEX HOSE	ANAMET	NOT KNOWN	N/A	1E228B	1987	REPLACED	NO
12) UPPER FLEX HOSE	ANAMET	011498C525665-003	N/A	1E228B	1998	REPLACEMENT	NO
13) LOWER FLEX HOSE	ANAMET	1055144-BWL21-1	N/A	1E228B	1987	REPLACED	NO
14) LOWER FLEX HOSE	ANAMET	121097C528882-001	N/A	1E228B	1998	REPLACEMENT	NO



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           3           of           3            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RCIC PUMP ROOM COOLING SYSTEM 134F, CLASS III                    

5. (a) Applicable Construction Code           ASME Sec III           19           71           Edition,           thru W72           Addenda,           N/A           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          , CODE CASE N416-1.

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	S63201	REPLACED FLEX HOSE WITH NEW HOSE	VT-2 PER SE-054-301 temp:72 °F/press.:85 psig
3	P73347	REPAIRED HEADER LIGAMENT AND GASKET SURFACE BY WELDING	VT-2 PER SE-054-301 temp:42 °F/press.:114 psig
4-6	P73348	REPAIRED HEADER LIGAMENT & GASKET SURFACE BY WELDING, REPLACED NUT.	VT-2 PER SE-054-301 temp:40 °F/press.:114 psig
7-10	P73347	REPLACED UPPER AND LOWER HOSES WITH NEW HOSES.	VT-2 PER SE-054-301 temp:42 °F/press.:114 psig
11-14	S81258	REPLACED UPPER AND LOWER HOSES WITH NEW HOSES.	VT-2 PER SE-054-301 temp:55 °F/press.:114 psig



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     3                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RHR PUMP ROOM COOLING SYSTEM 134G, CLASS III.                    

5. (a) Applicable Construction Code                     ASME Sec III                     19                     71                     Edition,                     thru W72                     Addenda,                     N/A                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                    , CODE CASE N416-1.

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)
1) UPPER FLEX HOSE	ANAMET	514712-01-001	N/A	1E230B	1995	REPLACED	NO
2) UPPER FLEX HOSE	ANAMET	061496520647-02-002	N/A	1E230B	1996	REPLACEMENT	NO
3) (NUT) HEAT EXCHANGER	AEROFIN	900616 (HEAT EXCH)	N/A	1E230A	1990	REPLACED	YES
4) (NUT) HEAT EXCHANGER	AEROFIN S/N 900615	REPLACEMENT TRANSFERED FROM 2E229B	N/A	1E230A	1990	REPLACEMENT	NO
5) HEAT EXCHANGER	AEROFIN	900622	N/A	1E230D	1990	REPAIRED	YES
6) HEAT EXCHANGER	AEROFIN	900623	N/A	1E230D	1990	REPAIRED	YES

7. Description of Work                     SEE ATTACHED LISTING                    

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

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

FORM NIS-2 (Back)

9. Remarks FLEX HOSES ARE CONSTRUCTED TO ANSI B31.1., ORIGINAL CODE OF CONSTRUCTION  
Applicable Manufacturer's Data Reports to be attached  
FOR AEROFIN HEAT EXCHANGERS ASME VIII DIV 1 1986 ED. NO ADD. CODE CASE 1997-2.

CERTIFICATION 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. AND REPAIR  
repair or replacement

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept 21, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period Aug 20 1997 to May 23, 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date SEPT 22 1998

v

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     2                     of                     3                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                     SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RHR PUMP ROOM COOLING SYSTEM 134G, CLASS III                    

5. (a) Applicable Construction Code                     III                     19                     71                     Edition,                     thru W72                     Addenda,                     N/A                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                    , CODE CASE N416-1.

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)
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7) UPPER HEAT EXCHANGER	AEROFIN	900618	N/A	1E230C	1990	REPAIRED	YES
8) LOWER HEAT EXCHANGER	AEROFIN	900619	N/A	1E230C	1990	REPAIRED	YES
9) UPPER FLEX HOSES	ANAMET	944-509951-01-006	N/A	1E230C	1995	REPLACED	NO
10) UPPER FLEX HOSES	ANAMET	011498C525665-001	N/A	1E230C	1998	REPLACEMENT	NO
11) UPPER FLEX HOSES	ANAMET	004	N/A	1E230C	1995	REPLACED	NO
12) UPPER FLEX HOSES	ANAMET	011498C525665-002	N/A	1E230C	1998	REPLACEMENT	NO
13) LOWER FLEX HOSES	ANAMET	NOT KNOWN	N/A	1E230C	1987	REPLACED	NO
14) LOWER FLEX HOSES	ANAMET	121097C528882-002	N/A	1E230C	1997	REPLACEMENT	NO
15) LOWER FLEX HOSES	ANAMET	091495517500-01-001	N/A	1E230C	1995	REPLACED	NO
16) LOWER FLEX HOSES	ANAMET	121097C528882-004	N/A	1E230C	1997	REPLACEMENT	NO

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

1. Owner Pennsylvania Power & Light Co. Date 8/31/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 3 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System RHR PUMP ROOM COOLING SYSTEM 134G, CLASS III

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, CODE CASE N416-1.

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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	S63227	REPLACED UPPER FLEX HOSE WITH NEW HOSE	VT-2 PER SE-054-301 temp:35 °F/press.:115 psig
3-4	P64589	REPLACED MISSING NUT WITH NUT FROM HEAT EXCHANGER 2E229B	N/A
5-6	Y70310	REPAIR HEADER LIGAMENTS AND GASKET SEATING SURFACE BY WELDING, UPPER AND LOWER HEAT EXCHANGERS.	VT-2 PER SE-054-301 temp:38 °F/press.:117 psig
7-16	P73660	REPAIR WATERBOX AND GASKET SEATING SURFACE BY WELDING; REPLACE INLET AND OUTLET HOSES WITH NEW HOSES, UPPER AND LOWER HEAT EXCHANGERS.	VT-2 PER SE-054-301 temp:68 °F/press.:114 psig

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

1. Owner           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           8/31/98          

Sheet           1           of           3          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           ONE          

          SEE ATTACHED LIST            
Repair Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Type Code Symbol Stamp           None          

Authorization No.           N/A          

Expiration Date           N/A          

4. Identification of System           FUEL POOL COOLING, 135B, CLASS III.          

5. (a) Applicable Construction Code           ASME Sec III           19           71           Edition,           thru W72           Addenda,           N/A           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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1) 1B FUEL POOL HEAT EXCHR	AMERICAN STANDARD	5-20001-01-2	29064	1E202B	1975	REPAIRED	YES
2) 1B FP HTX (TUBE PLUGS)	AMERICAN STANDARD	5-20001-01-2	29064	1E202B	1975	REPAIRED	YES
3) 1B FUEL POOL HTX (PIPE)	AMERICAN STANDARD	5-20001-01-2	29064	1E202B	1975	REPLACED	YES
4) 1B FUEL POOL HTX (PIPE)	PP&L	HT.NO 44913	N/A	1E202B	1997	REPLACEMENT	NO
5) 1B FUEL POOL HTX (FLANGE)	AMERICAN STANDARD	5-20001-01-2	29064	1E202B	1975	REPLACED	YES
6) 1B FUEL POOL HTX (FLANGE)	PP&L	HT.NO AJGZ	N/A	1E202B	1997	REPLACEMENT	NO

7. Description of Work           SEE ATTACHED LISTING          

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

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

FORM NIS-2 (Back)

9. Remarks AMERICAN STANDARD CODE OF CONSTRUCTION ASME III 1971 EDITION THRU WINTER

Applicable Manufacturer's Data Reports to be attached

1971 ADD.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept 10, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period FEB 26 1997 to OCT. 20 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
Commissions NB 7525 1BNA PA 269  
National Board, State, Province, and Endorsements

Date SEPT 11 19 98

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

1. Owner Pennsylvania Power & Light Co. Date 8/31/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System FUEL POOL COOLING, 135B, CLASS III

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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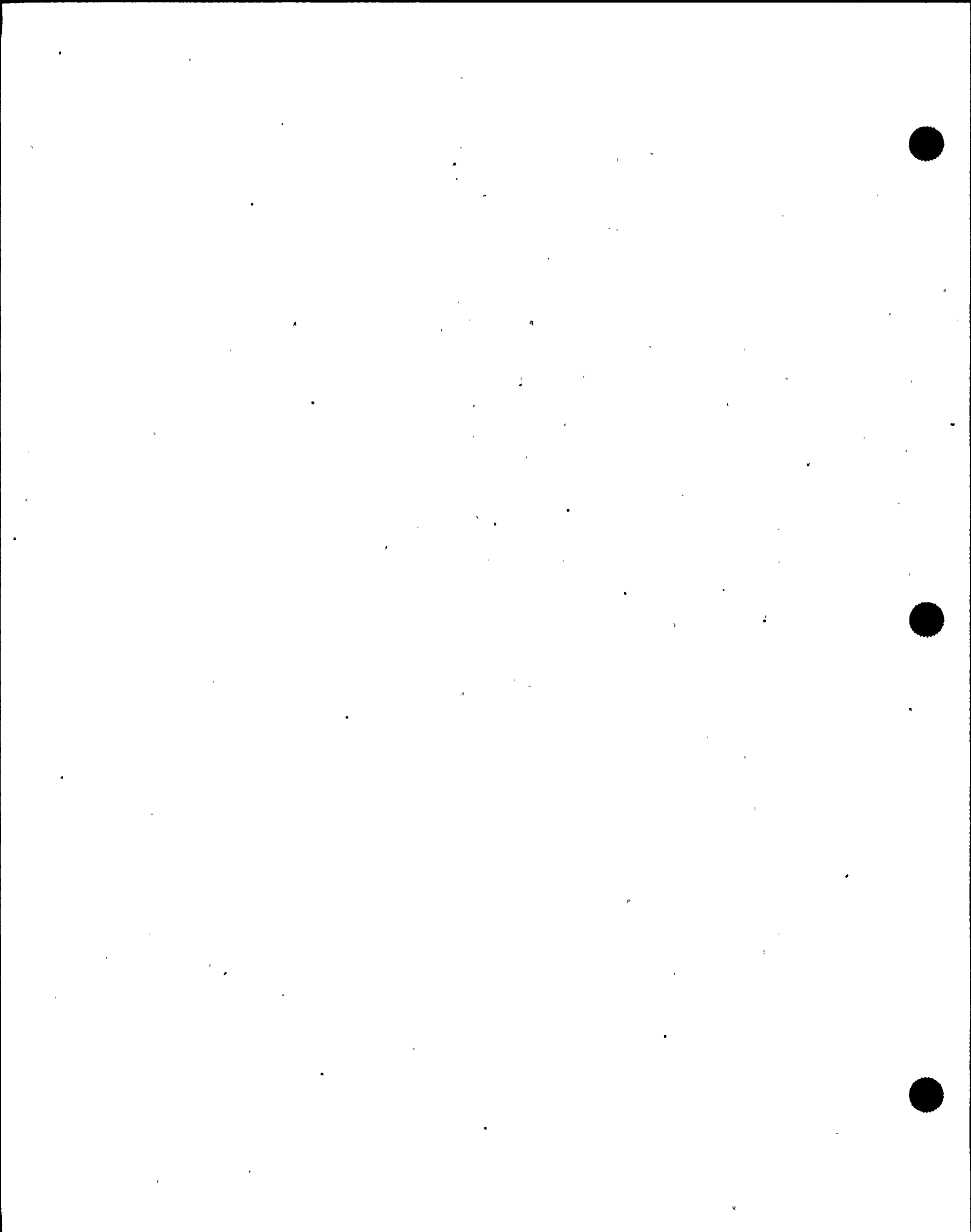
7) 1B FUEL POOL HTX (STUDS) QTY 3 TOTAL	AMERICAN STANDARD	5-20001-01-2	29064	1E202B	1975	REPLACED	YES
8) 1B FUEL POOL HTX (STUDS) QTY 3 TOTAL	PP&L	HT. NO "TE"	N/A	1E202B	1975	REPLACEMENT	NO
9) 1A FUEL POOL HEAT EXCHR	AMERICAN STANDARD	5-20001-01-1	29063	1E202A	1975	REPAIRED	YES
10) 1A FUEL POOL HTX (PIPE)	AMERICAN STANDARD	5-20001-01-1	29063	1E202A	1975	REPLACED	YES
11) 1A FUEL POOL HTX (PIPE)	PP&L	HT.NO 449314	N/A	1E202A	1997	REPLACEMENT	NO
12) 1A FUEL POOL HTX (FLANGE)	AMERICAN STANDARD	5-20001-01-1	29063	1E202A	1975	REPLACED	YES
13) 1A FUEL POOL HTX (FLANGE)	PP&L	HT.NO 343	N/A	1E202A	1997	REPLACEMENT	NO

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name
- Two North Ninth St., Allentown, PA 18101                     Sheet           3           of           3            
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name
- PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name
- Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address
- Expiration Date                     N/A
4. Identification of System                     FUEL POOL COOLING 135B, CLASS III
5. (a) Applicable Construction Code           ASME Sec III           19           71           Edition, thru           W72           Addenda,           N/A           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-8	P61597	REPAIR HTX 1E202B BY WELDING. REPAIRED TUBE PLUGS. REPLACE VENT AND DRAIN PIPE AND FLANGES. REPLACE 3 END BELL BOLTS	NON VT-2 PER MI-PS-008
9-13	S70760	REPAIR HTX 1E202A BY WELDING. REPLACE VENT AND DRAIN PIPE AND FLANGES.	NON VT-2 PER MI-PS-008





145A-I

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/31/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     3                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     WA #                     See Sheet 3 of 3                      
Address Repar Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Feedwater System, 145A, Class 1                    

5. (a) Applicable Construction Code                     ASME sec. III                     19                     71                     Edition,                     thru W72                     Addenda,                     See Block 9                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89, no adden.                    

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)
1) Stem Disc Assembly	YARWAY	Valve S/N 4918	N/A	141F095B	1976	REPLACED	YES
Stem Disc Assembly	YARWAY	A8496	N/A	141F095B	1979	REPLACEMENT	YES
2) Backseat Bushings	YARWAY	Valve S/N 4918	N/A	141F095B	1976	REPLACED	NO
Backseat Bushings	YARWAY	HT. No. 5293	N/A	141F095B	1997	REPLACEMENT	NO
3) Stem/Disc Assembly	YARWAY	Valve S/N 4925	N/A	141F096B	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-E18	N/A	141F096B	1997	REPLACEMENT	YES

7. Description of Work                     Replaced parts with equivalent parts.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 3  
 Other  Pressure                     N/A                     psi Test Temp.                     N/A                     °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED. ORIGINAL AND REPLACEMENT ORDER FOR YARWAY STEM & DISC  
Applicable Manufacturer's Data Reports to be attached  
ASSEMBLY IS ASME SEC. III, 1974 ED. INCLUDING W74 ADDENDA. REPLACEMENT CODE FOR YARWAY BACKSEAT  
BUSHING AND STEM AND DISC ASSEMBLY IS ASME SEC III, 1986 ED. CONSTRUCTION CODE FOR ANCHOR DARLING  
VALVE IS ASME SEC. III, 1971 ED. WITH W72 ADDENDA. CODE CASES: 1516-1, 1534, 1535-2, AND 1334-2.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Sept 21, 1998  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period NOV 18, 1997 to MAY 12, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements  
Date SEPT 22 1998

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

1. Owner Pennsylvania Power & Light Co. Date 8/31/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 WA# See Sheet 3 of 3  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

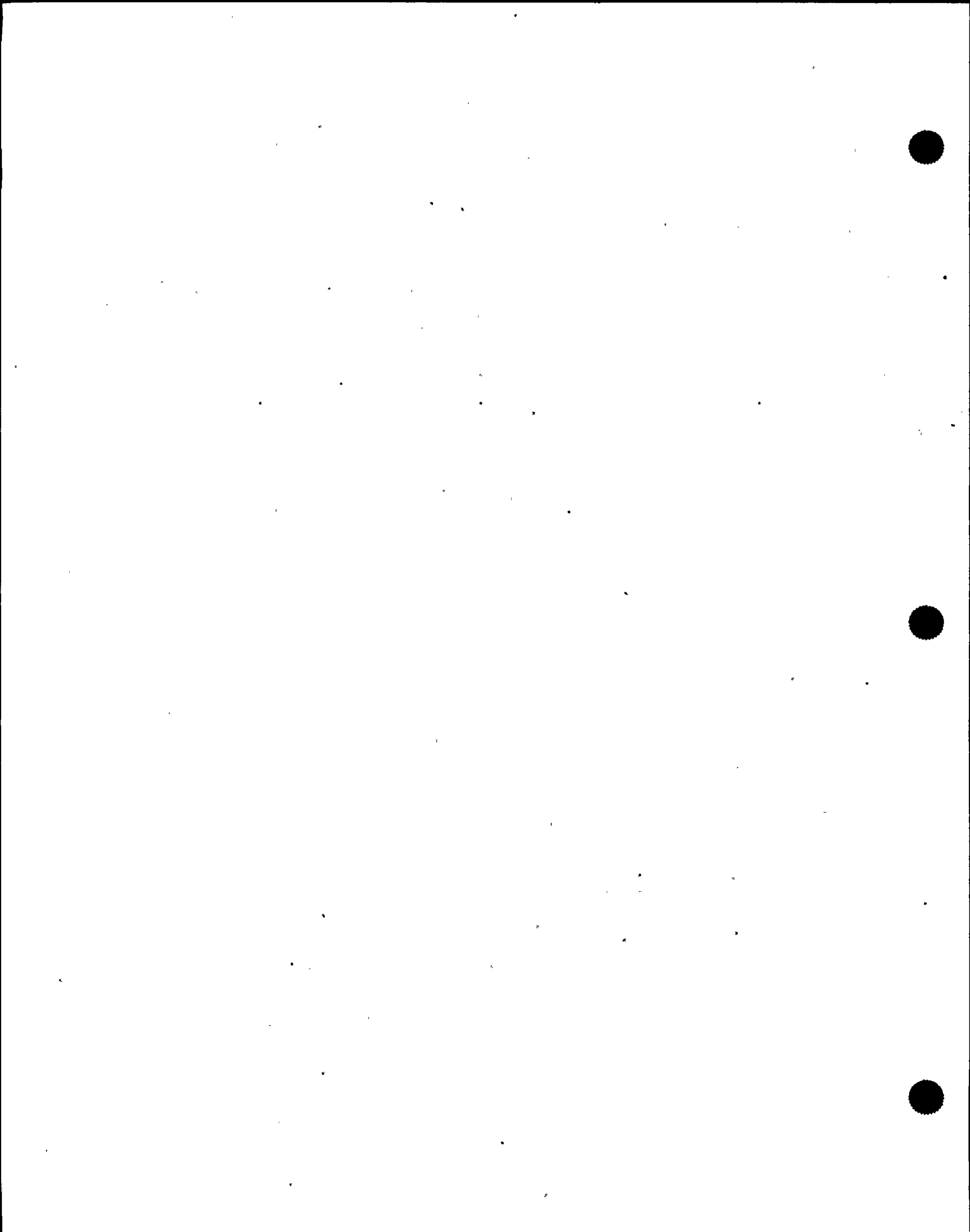
4. Identification of System Feedwater System, 145A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, See Block 9 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

6. Identification of Components Repaired or Replaced and Replacement Components

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

4) Backseat Bushings	YARWAY	Valve S/N 4925	N/A	141F096B	1976	REPLACED	NO
Backseat Bushings	YARWAY	HT. No. 5293	N/A	141F096B	1984	REPLACEMENT	NO
5) Hinge Pin Stud	Anchor Darling	E5820-3-1	N/A	141F010B	1976	REPLACED	YES
Hinge Pin Stud	Nova Machine	HT No. 0-3479FX	N/A	141F010B	1995	REPLACEMENT	NO
6) Hinge Pins	Anchor Darling	E5820-3-1	N/A	141F010B	1976	REPLACED	YES
Hinge Pins	Anchor Darling	HT No. H6106	N/A	141F010B	1992	REPLACEMENT	NO





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

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

Pg. 1 of 1

- Manufactured and certified by YARWAY CORPORATION, \* 480 Norristown Road, Blue Bell, PA 19422-0760  
(name and address of NPT Certificate Holder)
2. Manufactured for Framatome Technologies, Lynchburg, VA 24506  
(name and address of purchaser)
3. Location of installation Stock  
(name and address)
4. Type 969155-06 AMS5385E (disc) 52,000 Min. N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.  
\* A Subsidiary of Keystone International, Inc.
8. Nom. thickness (in.) --- Min. design thickness (in.) --- Dia. ID (ft & in.) --- Length overall (ft & in.) ---
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 91-11-1G-E1	- - - -
(2) 91-11-1G-E2	- - - -
(3) 91-11-1G-E3	- - - -
(4) 91-11-1G-E4	- - - -
(5) 91-11-1G-E5	- - - -
(6) 91-11-1G-E6	- - - -
(7) 91-11-1G-E7	- - - -
(8) 91-11-1G-E8	- - - -
(9) 91-11-1G-E9	- - - -
(10) 91-11-1G-E10	- - - -
(11) 91-11-1G-E11	- - - -
(12) 91-11-1G-E12	- - - -
(13) 91-11-1G-E13	- - - -
(14) 91-11-1G-E14	- - - -
(15) 91-11-1G-E15	- - - -
(16) 91-11-1G-E16	- - - -
(17) 91-11-1G-E17	- - - -
(18) 91-11-1G-E18	- - - -
(19) 91-11-1G-E19	- - - -
(20) 91-11-1G-E20	- - - -
(21) 91-11-1G-E21	- - - -
(22) 91-11-1G-E22	- - - -
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

FTI  
OP SUP  
CBR

Design pressure \* psi. Temp. \* °F. Hydro. test pressure N/A at temp. °F  
(when applicable)  
For ANSI Class 1500 Valves

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

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1 inch  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1998

Date 05/30/97 Name YARWAY CORPORATION Signed *F. W. Peszka*  
(NPT Certificate Holder) (authorized representative)  
F. W. Peszka

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY \*  
of Norwood, MA have inspected these items described in this Data Report on 05/30/97, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
III. Each part listed has been authorized for stamping on the date shown above.

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

Date 05/30/97 Signed *[Signature]* Commissions NR9541'N' PA2389  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FTI  
OP SUP  
CEE



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

As Required by the Provisions of the ASME Code Rules

P. O. # 40461

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 41191  
(Name & Address of Manufacturer)
2. Manufactured for BECHTEL POWER CORPORATION Order No. 9645-M-251.0  
(Name and Address)
3. Owner MISSISSIPPI POWER AND LIGHT COMPANY
4. Location of Plant PORT GIBSON, MISSISSIPPI
5. Pump or Valve Identification NUCLEAR SERVICE VALVES SIZE - 1"  
 SERIAL NUMBER(S) A8494 THRU A8518 A8496  
(Brief description of service for which equipment was designed)

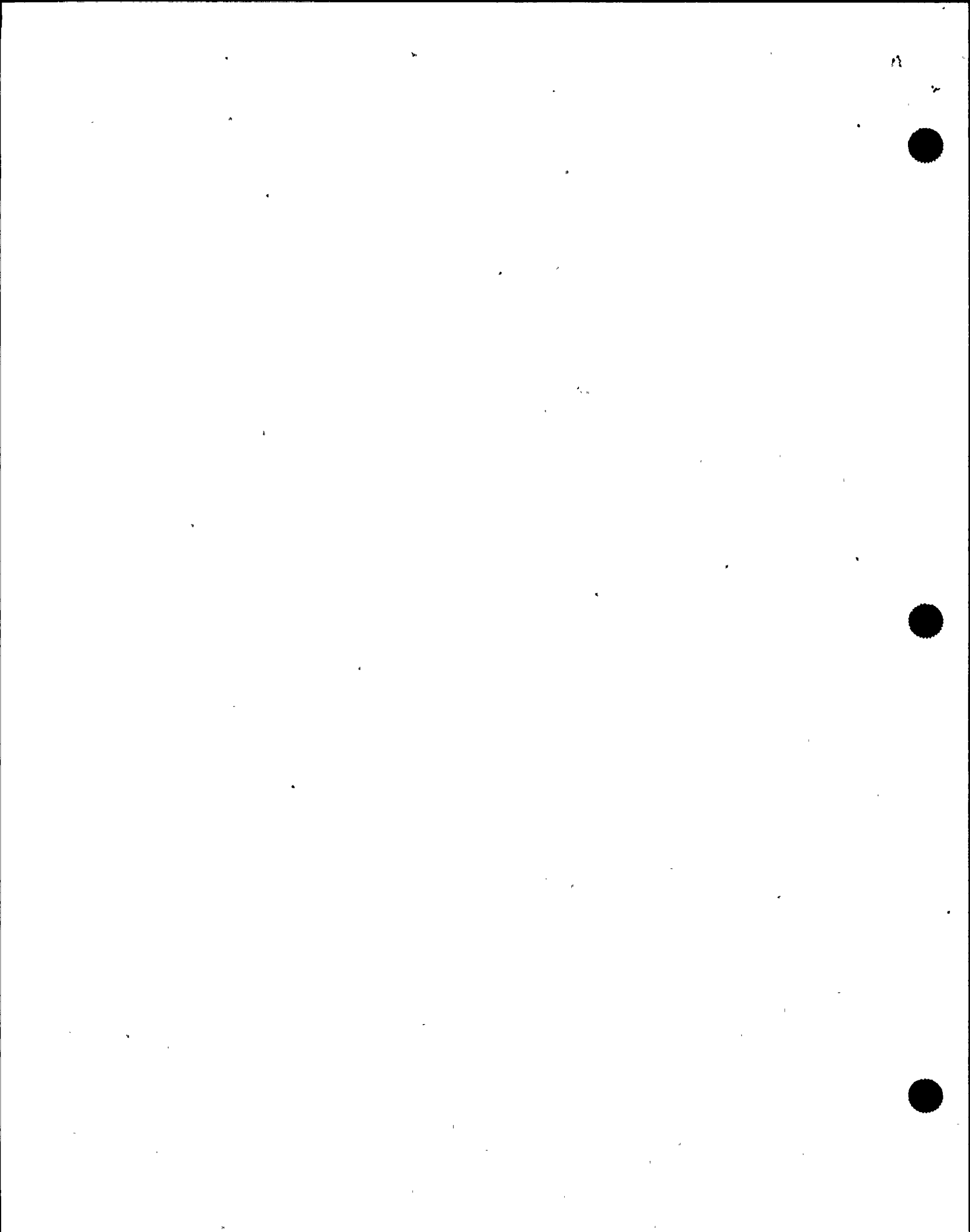
- (a) Drawing No. 103271-04 Prepared by YARWAY CORPORATION
- (b) National Board No. ---
6. Design Conditions --- psi --- °F or Pressure Class 1500 psi (1)  
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1  
 Edition 1974, Addenda Date WINTER 1974, Case No. NONE

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C8	AMS 5385	NOVA/HOWMET CORP.	DISC
(b) Forgings	Y8	SA105	CAPE ANN TOOL CO.	BODY
	1683	SA182 Gr. F6a	CYCLOPS CORP.	BACKSEAT BUSHING

91-0784  
 9 39

(1) For manually operated valves only.

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



FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	NONE		
(d) Other Parts	NONE		

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND  
 Stress analysis report on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND  
 Design specifications certified by THOMAS W. HABERMAS (I) Prof. Eng. State MISS Reg. No. 6064  
 Stress analysis report certified by HAROLD I. GREGG (I) Prof. Eng. State PA. Reg. No. 9053E  
 (I) Signature not required. List name only.

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

Date 8/2/79 1979 Signed YARWAY CORPORATION By W. A. VOLGER  
(Manufacturer)  
 Certificate of Authorization No. N 1891 expires OCTOBER 21, 1980

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS of MUTUAL INSURANCE CO. of PHILADELPHIA, PA. \* have inspected the equipment described in this Data Report on 8/2 1979, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

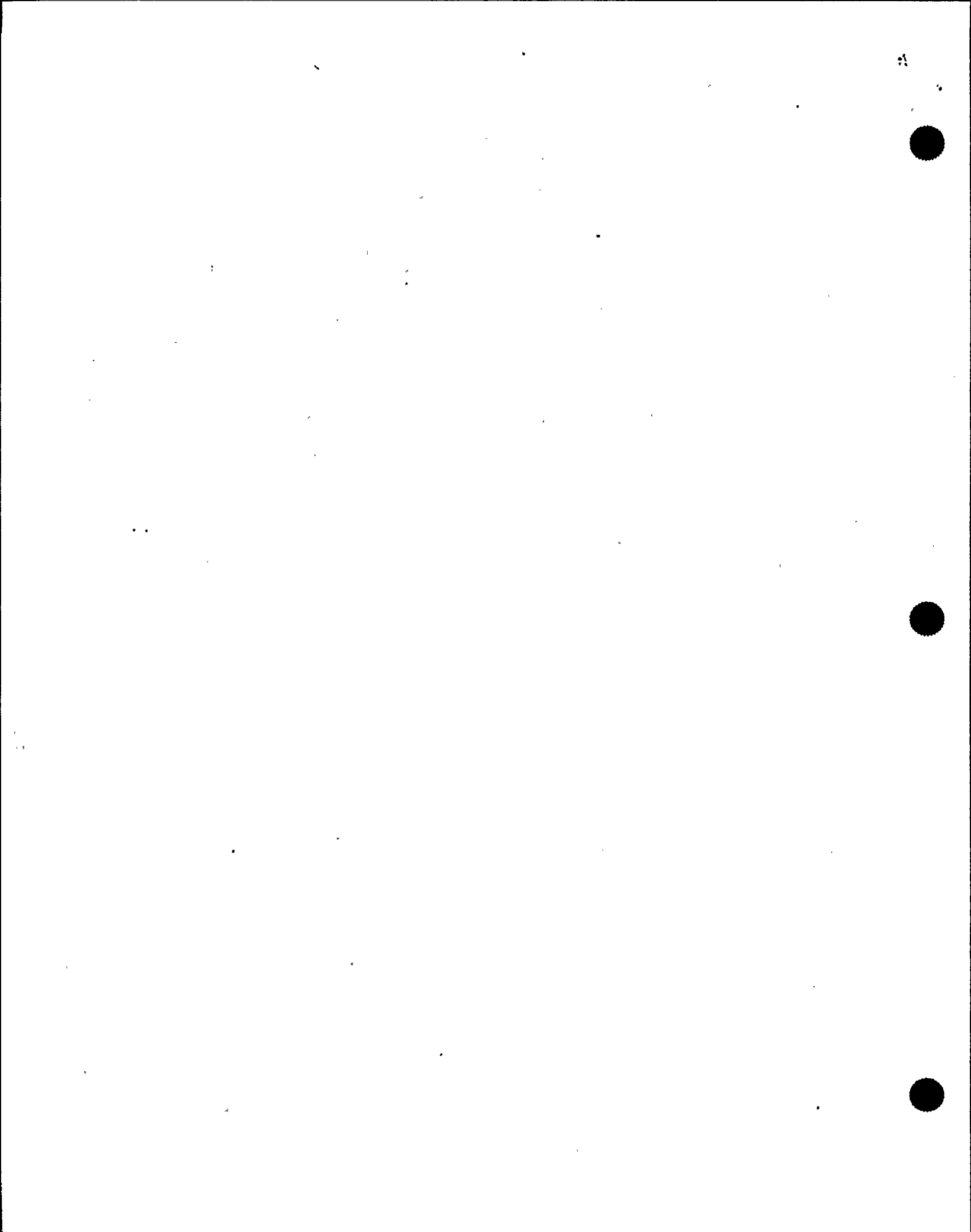
Date 8/2 1979

Harold I. Gregg Commissions N 86344  
(Inspector) (National Board, State, Province and No.)

\*PART OF THE FACTORY MUTUAL SYSTEM

91-0784  
 10-39

001615165



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/13/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           1           of           1            
Address  
 2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     WA # S81951 CODE FORM NO. 98-145-002  
Address Repar Organization P.O. No., Job No., etc.  
 3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     FEEDWATER, System 145A, CLASS 2                      
 5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           1516-1,1534           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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 Stamp ed (Yes or No)
Leak Off Plug	Anchor Daring	E5853-16-1	N/A	HV149F013	1975	REPLACED	NO
Leak Off Plug	Capitol	HT NO. 093L	N/A	HV149F013	1995	REPLACEMENT	NO

7. Description of Work                     Replaced leak off plug with equivalent plug.                      
 8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Perform Non-VT-2 per  
 Other  Pressure           N/A           psi Test Temp.           N/A           °F MI-PS-008

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 27, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period MAY 1, 1998 to MAY 29 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 27 1998

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/22/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     3                      
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     See Sheet 3 of 3  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A
4. Identification of System                     RHR System-Pool Spray, Pumps and Auxiliary, 149A, Class 2
5. (a) Applicable Construction Code                     ASME sec. III 19 71                     Edition,                     thru W72                     Addenda,                     1516-1 and 1534                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89, no adden.
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)
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1) Gate Valve	Anchor Darling	S/N E5854-26-1	N/A	151F018A	1975	REPLACED	YES
Gate Valve	Capitol	HT No. 093L	N/A	151F018A	1996	REPLACEMENT	NO
2) 3/8" ISO Valve	Anderson Greenwood	.9721	N/A	IC-PSH-1N022B	1977	REPLACED	YES
3/8" ISO Valve	Anderson Greenwood	N28905	N/A	IC-PSH-1N022B	1993	REPLACEMENT	YES
3) Tubing Subassembly	BECHTEL	N/A	N/A	JD-28-3-6D	1982	REPLACED	YES
Tubing Subassembly	PP&L	N/A	N/A	JD-28-3-6D	1998	REPLACEMENT	NO

7. Description of Work                     Replaced Leakoff Plugs/Replaced Valve and Valve Disc/Spring Assembly.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  None Required  
Other  Pressure                     N/A                     psi Test Temp.                     N/A                     °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED. ORIGINAL CONSTRUCTION CODE FOR ANCHOR DARLING VALVE

Applicable Manufacturer's Data Reports to be attached

151F018A IS ASME SEC.III, 1971 ED. THROUGH W71 ADDENDA. CODE CASES 1516-1 AND 1534;

REPLACEMENT CODE IS ASME SEC. III 1986 ED. NO ADD.

ORIGINAL CONSTRUCTION AND REMPLACEMENT.

CODES FOR ANDERSON/GREENWOOD VALVE IS ASME SEC III, 1971 ED. THRU W'1973 ADDENDA. NO CODE CASES.

ORIGINAL CONSTRUCTION CODE FOR LONEGRAN IS ASME SEC III, 1974 ED. W74 ADD. CODE CASES 1555 AND N-242.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept 29, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period OCT. 22 1996 to APRIL 25, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date SEPT 29 1998



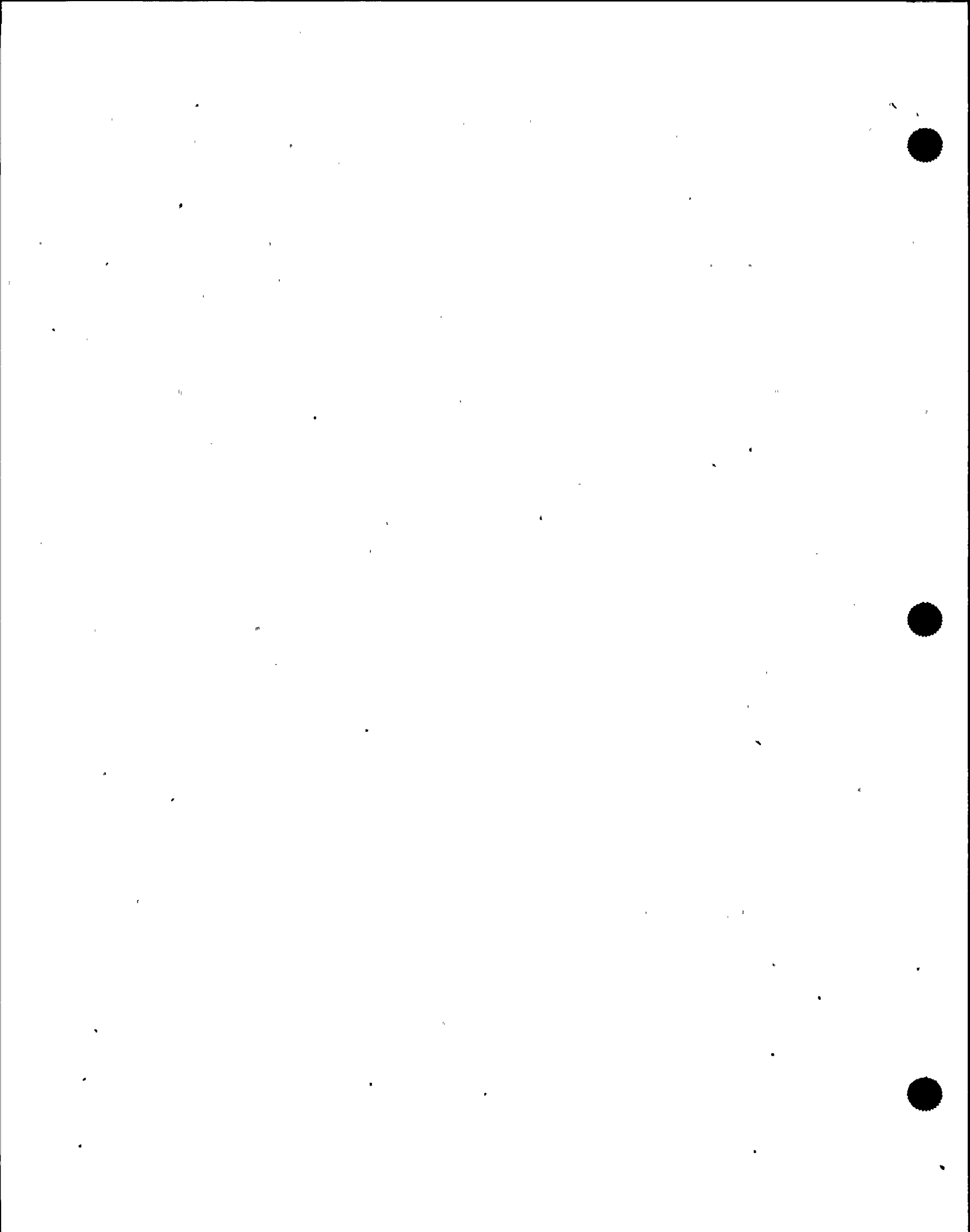
**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/22/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     2                     of                     3                      
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     See Sheet 3 of 3  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A
4. Identification of System                     RHR System-Pool Spray, Pumps and Auxilliary, 149A, Class 2
5. (a) Applicable Construction Code                     ASME sec. III 19 71                     Edition,                     thru W72                     Addenda,                     1516-1 and 1534                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89, no adden.
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4) Flow Valve	Anchor Darling	VALVE S/N E5854-11-2	N/A	HV-151F007B	1976	REPLACED	YES
Flow Valve	Capitol	HT No. 093L	N/A	HV-151F007B	1995	REPLACEMENT	NO
5) Valve Disc/Spring Assembly	Lonergran	VALVE S/N 510138-1-19-1	N/A	PSV-15193	1981	REPLACED	YES
Valve Disc/Spring Assembly	Anchor Darling	2	N/A	PSV-15193	1991	REPLACEMENT	YES
6) Pipe Support	Bechtel	N/A	N/A	GBB-109-H35	1982	REPAIRED	YES







Certificate Holder's Serial No. N28902-N28906

8. Design conditions 2240 psi 800 °F or valve pressure class 1500# (1)  
(pressure) (temperature)

9. Cold working pressure 3600 psi at 100°F

10. Hydrostatic test 5400 psi. Disk differential test pressure 3960 psi

11. Remarks: REPLACEMENT VALVES  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATION OF DESIGN

Design Specification certified by LAWRENCE S. LOOMER P.E. State PA Reg. no. 19875-E  
 Design Report certified by N/A P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2823 Expires 9-10-96

Date 12-15-93 Name ANDERSON, GREENWOOD & CO. Signed Joseph A. Parks  
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TX and employed by C.U.I.C. of BOSTON, MASS. have inspected the pump, or valve, described in this Data Report on 12-15-93 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 12/15/93 Signed Roger L. Latta Commissions TX #1056  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only



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

As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701  
(Name and address of NPT Certificate Holder)
- (b) Manufactured for Pennsylvania Power & Light Co., 2 N. 9th St., Allentown, PA 18101  
(Name and address of N Certificate Holder for completed nuclear component)
2. Identification-Certificate Holder's Serial No. of Part S/N 1 & 2 Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. C31661 Drawing Prepared by Anchor/Darling Valve Company
- (b) Description of Part Inspected Disc, Heat No. A338 SA479-304
- (c) Applicable ASME Code: Section III, Edition 1974, Addenda date Wnt '74, Case No. --- Class 2
3. Remarks: Spare Parts for 1" x 1" LCT-11T Lonergan  
(Brief description of service for which component was designed)

A/DV S.O. P-H550-5

Note: No Disc Hydro Performed

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

Date 4/5/19 19 91 Signed Anchor/Darling Valve Co. By R.L. Starnett  
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/92 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~XXXXXX~~ Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 1-25-91 thru 4-19-91 19 91 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-19 19 91

Charles Yalung Commissions Pennsylvania 2392  
National Board, State, Province and No.

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1-2 on this Data Report is correct on each sheet, and (3) a list of sheets is numbered and number of sheets is returned to item 2, "Remarks"

91-0666  
 19 34

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/27/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           1           of           2            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                                         See Sheet 2 of 2                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RHR Suppression Pool Spray, 149A, Class 3                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           N/A           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
-------------------	----------------------	-------------------------	--------------------	----------------------	------------	------------------------------------	-------------------------------

1) Pipe Support	BECHTEL	N/A	N/A	SP-HBC-139 H2000	1982	REPAIRED	NO
2) Pipe Support	BECHTEL	N/A	N/A	SP-HBC-139 H2053	1982	REPAIRED	NO
3) Pipe Support	BECHTEL	N/A	N/A	SP-HBC-139 H2053	1982	REPLACED	NO
Pipe Support	PP&L	N/A	N/A	SP-HBC-139 H2053	1998	REPLACEMENT	NO
4) Pipe Support	BECHTEL	N/A	N/A	SP-HBC-140-H2030	1982	REPAIRED	NO

7. Description of Work                     Rmv'd & rwd'd three hngr clips /Rplc'd 1/2" hanger clip shim with 1/4" shim plate.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  None Required  
 Other  Pressure           N/A           psl Test Temp.           N/A           °F

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



FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept. 4, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

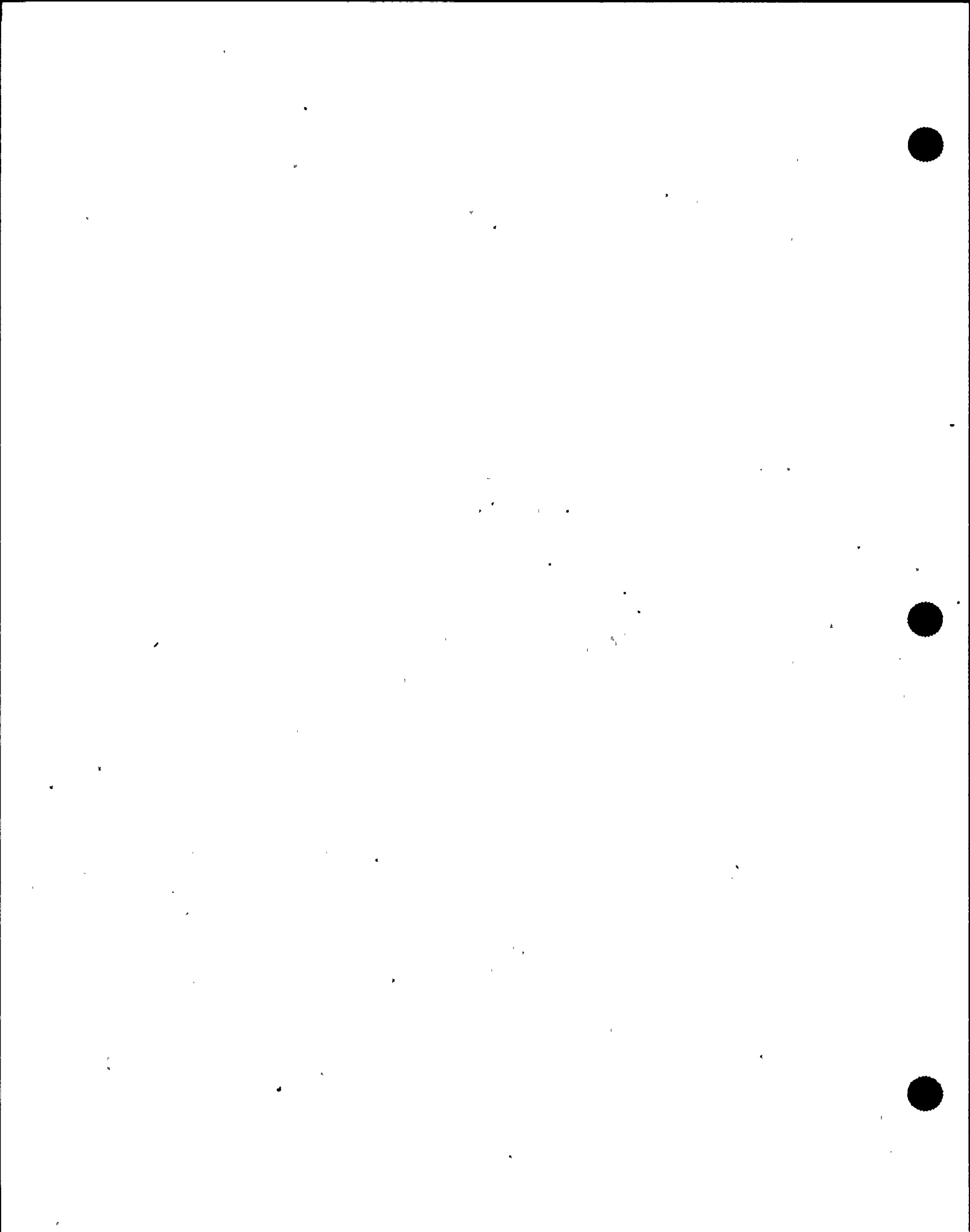
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period NOV 14 1997 to FEB 20, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date SEPT 4 1998





SHOP ORDER 13258

CORRECTED COPY

*AP 10/28/97*  
*DW 10/28/97*

STER(S)

01040

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 1

- Manufactured and certified by YARWAY CORPORATION\*, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760  
\* A SUBSIDIARY OF KEYSTONE INTERNATIONAL, INC. (name and address of NPT Certificate Holder)
- Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24506  
(name and address of purchaser)
- Location of installation STOCK  
(name and address)
- Type 969155-06 AMS5385E (disc) 52,000 PSI MIN. N/A 1997  
(drawing no.) (matl. spec. no.) (tensile strength) (CRN) (year built)
- ASME Code, Section III: 1986 NONE 1 AP 10/28/97  
(edition) (addenda date) (class) (Date Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —  
(no.)
- Remarks: FABRICATED IN ACCORDANCE WITH CONSTRUCTION DATA 969005 REV. A, PRESSURE RETAINING PARTS FOR  
YARWAY SERIES 5500 GLOBE VALVE. THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR RECONCILING THIS  
CONSTRUCTION DATA WITH THE DESIGN SPECIFICATION FOR THE FACILITY USING THE PARTS.
- Nom. thickness (in.) — Min. design thickness (in.) — Dia. ID (ft. & in.) — Length overall (ft. & in.) —
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) AV94-A1	—	(26)	
(2) AV94-A2	—	(27)	
(3) AV94-A3	—	(28)	
(4) AV94-A4	—	(29)	
(5) AV94-A5	—	(30)	
(6) AV94-A6	—	(31)	
(7) AV94-A7	—	(32)	
(8) AV94-A8	—	(33)	
(9) AV94-A9	—	(34)	
(10) AV94-A10	—	(35)	
(11) AV94-A11	—	(36)	
(12) AV94-A12	—	(37)	
(13) AV94-A13	—	(38)	
(14) AV94-A14	—	(39)	
(15) AV94-A15	—	(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

FTI  
OP SUP  
CBR

10. Design pressure \*\* psi. Temp. \*\* °F Hydro. test pressure N/A at temp. °F  
\*\*FOR ANSI CLASS 1500 VALVES. (when applicable)

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

(12/86)

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

CERTIFICATION OF DESIGN

Design specifications certified by (SEE REMARKS) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)  
Design report\* certified by N/A P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) STEM AND DISC ASSEMBLIES, 1 INCH  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires NOVEMBER 14, 1998  
Date 10/24/97 Name YARWAY CORPORATION Signed [Signature]  
(NPT Certificate Holder) (authorized representative)  
F. W. PESZKA

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of  
PENNSYLVANIA and employed by \*ARKWRIGHT MUTUAL INSURANCE COMPANY  
of NORWOOD, MA have inspected these items described in this Data Report on 10/24/97  
and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the  
ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

\*FACTORY MUTUAL ENGINEERING ASSOCIATION

10/24/97 Signed [Signature] Commissions NB9541N, PA2389  
10/28/97 (Authorized Inspector) (Natl. Bd. (incl. endorsements) state or prov. and no.)  
NB 11207 "N" PA 2607



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

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

Pg. 1 of 1

1. Manufactured and certified by YARWAY CORPORATION, \* 480 Norristown Road, Blue Bell, PA 19422-0760  
(name and address of NPT Certificate Holder)
2. Manufactured for Framatome Technologies, Lynchburg, VA 24506  
(name and address of purchaser)
3. Location of installation Stock  
(name and address)
4. Type 969155-06 AMS5385E (disc) 52,000 Min. N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (ICRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.  
\* A Subsidiary of Keystone International, Inc.
8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 91-11-1G-F1	- - - -
(2) 91-11-1G-F2	- - - -
(3) 91-11-1G-E3	- - - -
(4) 91-11-1G-E4	- - - -
(5) 91-11-1G-E5	- - - -
(6) 91-11-1G-E6	- - - -
(7) 91-11-1G-E7	- - - -
(8) 91-11-1G-E8	- - - -
(9) 91-11-1G-E9	- - - -
(10) 91-11-1G-E10	- - - -
(11) 91-11-1G-E11	- - - -
(12) 91-11-1G-E12	- - - -
(13) 91-11-1G-E13	- - - -
(14) 91-11-1G-E14	- - - -
(15) 91-11-1G-E15	- - - -
(16) 91-11-1G-E16	- - - -
(17) 91-11-1G-E17	- - - -
(18) 91-11-1G-E18	- - - -
(19) 91-11-1G-E19	- - - -
(20) 91-11-1G-E20	- - - -
(21) 91-11-1G-E21	- - - -
(22) 91-11-1G-E22	- - - -
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

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CBR

Design pressure \* ---- psi. Temp. \* ---- °F. Hydro. test pressure N/A at temp. °F  
(when applicable)

**For ANSI Class 1500 Valves**

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

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1 inch  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1998

Date 05/30/97 Name YARWAY CORPORATION Signed F. W. Peszka  
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY \*

of Norwood, MA have inspected these items described in this Data Report on 05/30/97, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 05/30/97 Signed [Signature] Commissions NR9541'N' PA2389  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

1. Owner Pennsylvania Power & Light Co. Date 9/1/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 WA# S64442 CODE FORM# 96-149-016  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System RHR System Steam Condensing Mode 149B, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 74 Edition, thru W74 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
Stem/Disc Assembly	YARWAY	Valve S/N A0046	N/A	HV151F103B	1977	REPLACED	YES
Stem/Disc Assembly	YARWAY	S/N 91-11-1G-C2	N/A	HV151F103B	1995	REPLACEMENT	YES

7. Description of Work Replaced Stem/Disc Assembly

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  NON VT-2 per MI-PS-008  
 Other  Pressure N/A psi Test Temp. N/A °F

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



FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

ORIGINAL NIS-2 FORM WAS INADVERTENTLY MISSED DURING THE UNIT 1 9TH RIO OUTAGE

SUMMARY REPORT.

CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date Sept 30, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period SEPT. 29 1998 to SEPT 22 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 1BNA PA 2159  
National Board, State, Province, and Endorsements

Date SEPT. 30 1998

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

As required by the Provision of the ASME Code Rules, Section III, Div. I

REGISTER 70425

SHOP ORDER 59494

Yarway Corporation, A Subsidiary of Keystone International, Inc.  
 480 Norristown Road, Blue Bell, PA 19422  
 (Name and address of NPT Certificate Holder)

1. (a) Manufactured by Yarway Corporation, A Subsidiary of Keystone International, Inc.  
 480 Norristown Road, Blue Bell, PA 19422  
 (Name and address of NPT Certificate Holder)

(b) Manufactured for Penna. Power & Light Co., Susquehanna SES, Berwick, PA 18603  
 (Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part 91-11-1G-C1 thru C7 Nat'l Bd. No. 045122, ----  
 045122,  
 (a) Constructed According to Drawing No. 966238-02 Drawing Prepared by Yarway Corporation  
 (b) Description of Part Inspected Stem Assembly, 1" - 5500 - Qty: 7  
 (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W74, Case No. --, Class 1

3. Remarks: Renewal parts for nuclear globe valve  
 (Brief description of service for which component was designed)  
 Material: Disc, AMS 5385E; Heat Code: 91-11-1G

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

Date 28 June 1995 Signed Yarway Corporation By F.W. Peszka  
 (NPT Certificate Holder) F. W. Peszka  
 Certificate of Authorization Expires Nov. 14, 1995 Certificate of Authorization No. N-2450

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Pennsylvania Power & Light Co.

Stress analysis report on file at Not Required

Design specifications certified by John R. Schmiedel PA 19370E  
 Richard O. Schlueter PA 26382E  
 Sidney Arthur Copland PA 19877E  
 Stress analysis report certified by George Loos NJ 23225  
 Prof. Eng. State

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. of Norwood, MA\* have inspected the part of a pressure vessel described in this Partial Data Report on JUNE 28 1995, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. \* Factory Mutual Engineering Association.

Date JUNE 28 1995

William R. Rogerson III Commissions NB7980 PA3204 NBSI IS  
 Inspector's Signature National Board, State, Province and No.

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 Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)  
 (a) \_\_\_\_\_  
 (b) \_\_\_\_\_  
 If removable, bolts used \_\_\_\_\_ Other fastening \_\_\_\_\_  
 (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

7. Jacket Closure: \_\_\_\_\_  
 (Describe as ogee and weld, bar, etc. If bargive dimensions, if bolted, describe or sketch)

8. Design pressure<sup>2</sup> \_\_\_\_\_ psi at \_\_\_\_\_ °F Drop Weight \_\_\_\_\_ Charpy Impact \_\_\_\_\_ (ft-lb) at temp. of \_\_\_\_\_ °F

Items 9 and 10 to be completed for tube sections:

9. Tube Sheets: Stationary. Material \_\_\_\_\_ Dia. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
 (Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

10. Tubes: Material \_\_\_\_\_ Floating. Material \_\_\_\_\_ Dia. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
 (Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

10. Tubes: Material \_\_\_\_\_ Dia. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
 (Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Items 11-14 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. \_\_\_\_\_ Efficiency \_\_\_\_\_ %  
 Girth \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ No. of Courses \_\_\_\_\_

13. Heads (a) Material \_\_\_\_\_ T.S. \_\_\_\_\_ (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_  
 Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)  
 (a) Top, bottom, ends \_\_\_\_\_  
 (b) Channel \_\_\_\_\_  
 If removable, bolts used (a) \_\_\_\_\_ (b) \_\_\_\_\_ (c) \_\_\_\_\_ Other fastening \_\_\_\_\_  
 (Describe or attach sketch)

14. Design pressure<sup>2</sup> \_\_\_\_\_ psi at \_\_\_\_\_ °F Drop Weight \_\_\_\_\_ Charpy Impact \_\_\_\_\_ (ft-lb) at temp. of \_\_\_\_\_ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

16. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

17. Inspection Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Openings: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

18. Supports: Skirt \_\_\_\_\_ Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Other \_\_\_\_\_ Attached \_\_\_\_\_  
 (Yes or No) (Number) (Number) (Describe) (Where & How)

<sup>1</sup> If Postweld Heat-Treated.  
<sup>2</sup> List other internal or external pressure with coincident temperature when applicable.

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/12/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     4                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     See Sheet 4 of 4  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RHR Steam Condensing Mode, 149B, Class 3                    

5. (a) Applicable Construction Code                     ASME sec. III 19 71                     Edition,                     thru W72                     Addenda,                     No                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                     No Addenda - N416-1

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)
1) Large Pipe Subassembly	Bechtel	N/A	N/A	HRC-112-1-5	1976	REPLACED	YES
Large Pipe Subassembly	PP&L	N/A	N/A	HRC-112-1-5	1998	REPLACEMENT	NO
2) Large Pipe SubAssembly	Bechtel	N/A	N/A	HRC-112-1-5	1976	REPAIRED	YES
3) Stem/Disc Assembly	YARWAY	VALVE S/N 6154	N/A	112F107B	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-E15	N/A	112F107B	1997	REPLACEMENT	YES
4) Backseat Bushing	YARWAY	VALVE S/N 6154	N/A	112F107B	1976	REPLACED	NO

7. Description of Work                     Repaired Pipe/Replaced Flange, Stem/Disc Assembly/Backseat Bushing with Equivalent Parts.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 4 of 4  
 Other  Pressure                     80                     psi Test Temp.                     70                     °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

ORIGINAL CONSTRUCTION CODE FOR YARWAY IS ASME SECTION III, 1974 Ed. W '74

REPLACEMENT PARTS ARE ASME SECTION III, 1986 ED.

NO ADDENDA

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp \_\_\_\_\_ N/A

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

Signed [Signature] Date Aug 31, 1998  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period MAY 6, 1998 to MAY 11, 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 1BNA PA 2159  
National Board, State, Province, and Endorsements

Date SEPT. 4, 1998

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

1. Owner Pennsylvania Power & Light Co. Date 8/12/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 4  
Address  
 2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 4 of 4  
Address Repair Organization P.O. No., Job No., etc.  
 3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System RHR Steam Condensing Mode, 149B, Class 3  
 5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda - N416-1  
 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)
-------------------	----------------------	-------------------------	--------------------	----------------------	------------	------------------------------------	-------------------------------

Backseat Bushing	YARWAY	HT No. 5293	N/A	112F107B	1984	REPLACEMENT	NO
5) Stem/Disc Assembly	YARWAY	VALVE S/N 6140	N/A	112F108B	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-E20	N/A	112F108B	1997	REPLACEMENT	YES
6) Backseat Bushing	YARWAY	VALVE S/N 6140	N/A	112F108B	1976	REPLACED	NO
Backseat Bushing	YARWAY	HT. No. 5293	N/A	112F108B	1984	REPLACEMENT	NO
7) Stem/Disc	YARWAY	VALVE S/N 6587	N/A	112F109B	1976	REPLACED	YES
Stem/Disc	YARWAY	AV94-A14	N/A	112F109B	1997	REPLACEMENT	YES
8) Backseat Bushing	YARWAY	VALVE S/N 6587	N/A	112F109B	1976	REPLACED	NO
Backseat Bushing	YARWAY	HT No. 5293	N/A	112F109B	1984	REPLACEMENT	NO
9) Stem/Disc Assembly	YARWAY	VALVE S/N 6342	N/A	112F110B	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-E11	N/A	112F110B	1997	REPLACEMENT	YES

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/12/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     3                     of                     4                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     See Sheet 4 of 4  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RHR Steam Condensing Mode, 149B, Class 3                    

5. (a) Applicable Construction Code                     ASME sec. III 19 71                     Edition,                     thru W72                     Addenda,                     No                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                     No Addenda - N416-1

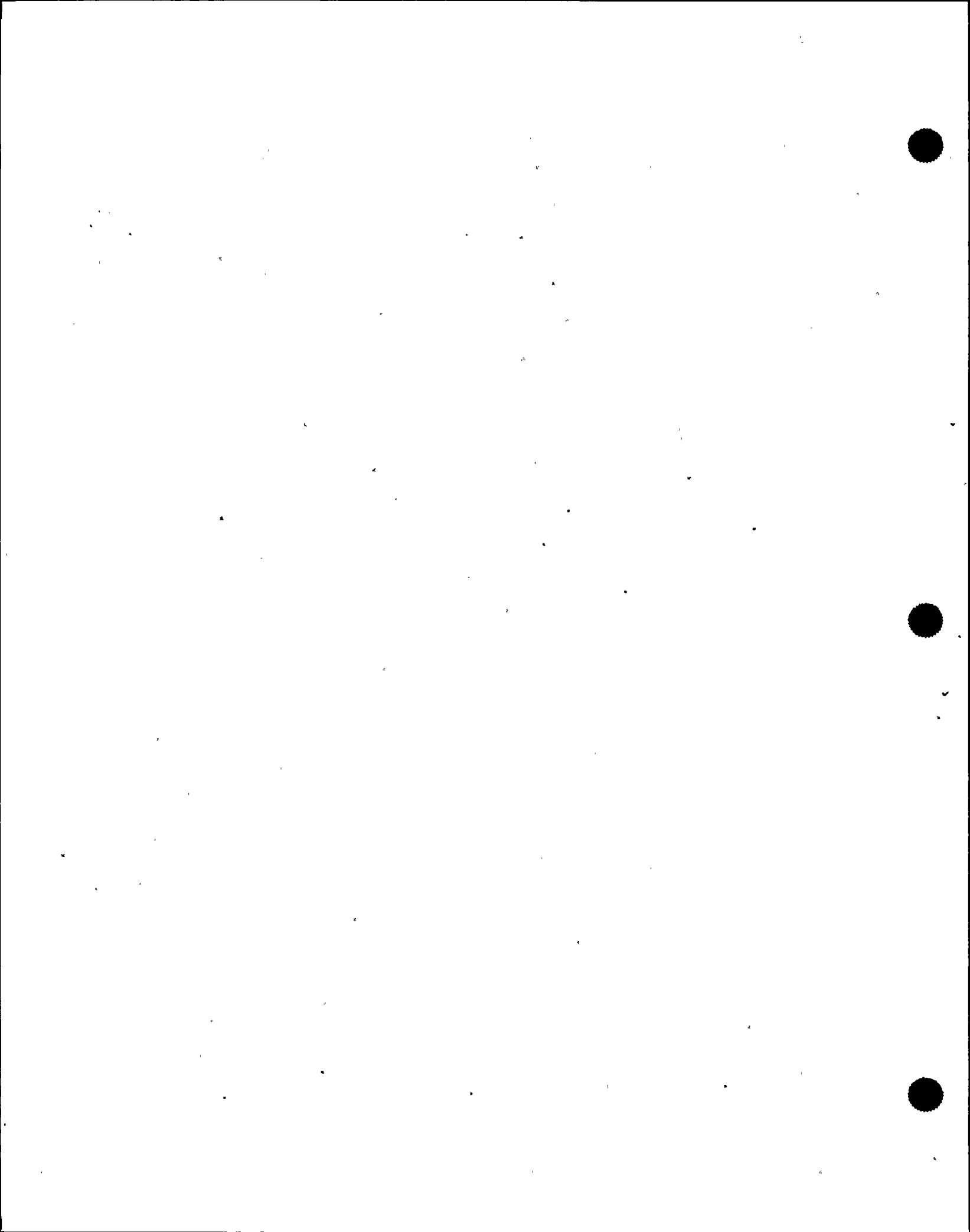
## 6. Identification of Components Repaired or Replaced and Replacement Components

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)
10) Backseat Bushing	YARWAY	VALVE S/N 6342	N/A	112F110B	1976	REPLACED	NO
Backseat Bushing	YARWAY	HT No. 5293	N/A	112F110B	1984	REPLACEMENT	NO









149E-II

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 8/25/98

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

WA # S64636 96-149-018  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System RHR Containment Spray Piping and Logic, 149E, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 74 Edition, thru W74 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
Stem/Disc Assembly	YARWAY	Valve S/N 5967	N/A	151077	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	A4670	N/A	151077	1978	REPLACEMENT	YES
Backseat Bushing	YARWAY	Valve S/N 5967	N/A	151077	1976	REPLACED	NO
Backseat Bushing	YARWAY	HT. No. 5293	N/A	151077	1984	REPLACEMENT	NO

7. Description of Work Replace Valve Stem/Disc Assembly and Backseat Bushing with Equivalent Parts.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  NON-VT-2 per  
 Other  Pressure N/A psi Test Temp. N/A °F MI-PS-008

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

FORM NIS-2 (Back)

9. Remarks, CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CODE OF CONSTRUCTION FOR YARWAY REPLACEMENT BUSHING IS ASME III, CLASS I,  
1986 EDITION.

**CERTIFICATION 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 N/A

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

Signed: [Signature] Date Aug 27, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

**CERTIFICATION OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period OCT 15 1998 to MAY 21 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date Aug 27 1998

210

10

As Required by the Provisions of the ASME Code Rules

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. Order No. 41121  
(Name & Address of Manufacturer)

2. Manufactured for BECHTEL POWER CORPORATION Order No. 9645-M-251.0  
(Name and Address)

3. Owner MISSISSIPPI POWER AND LIGHT COMPANY

4. Location of Plant PORT GIBSON, MISSISSIPPI

5. Pump or Valve Identification NUCLEAR SERVICE VALVES - SERIAL NUMBERS A4669 THRU A4681  
SIZE 1"  
(Brief description of service for which equipment was designed)

(a) Drawing No. 103271-05 Prepared by YARWAY CORPORATION

(b) National Board No. ----

6. Design Conditions ---- psi ---- °F or Pressure Class 1500 psi (1)  
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1  
 Edition 1974, Addenda Date WINTER 1974, Case No. NONE

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C3	AMS 5385	NOVA/HOWMET	DISC
(b) Forgings	V8	SA105	CAPE ANN TOOL COMPANY	BODY
	YW812	SA182 F6	AL TECH STEEL	BACKSEAT BUSHING

(c) For manually operated valves only.

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

No. 41-0787  
 RECORD PAGE 2  
 PAGE 34

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	NONE			
(d) Other Parts	NONE			

8. Hydrostatic test 5400 psi.

**CERTIFICATION OF DESIGN**

Design information on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND  
 Stress analysis report on file at: BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND  
 Design specifications certified by THOMAS W. HABERMAS (1) Prof. Eng. State MISS Reg. No. 6064  
 Stress analysis report certified by HAROLD I. GREGG (1) Prof. Eng. State PA. Reg. No. 9053E  
 (1) Signature not required. List name only.

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

Date AUGUST 18 19 78 Signed YARWAY CORPORATION By W. A. VOLGER  
(Manufacturer)

Certificate of Authorization No. N-1891 expires OCTOBER 21, 1980

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of PENNSYLVANIA and employed by PHILA. MFGS. MUTUAL INS. CO. of PHILADELPHIA, PA. have inspected the equipment described in this Data Report on AUGUST 18 19 78, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date AUGUST 18 19 78

N. S. HEWITT  
 N. S. HEWITT

Commissions NB 6344 PA 2056  
(National Board, State, Province and No.)

\*PART OF THE FACTORY MUTUAL SYSTEM

\*\*Corrected copy - Mfg. Rep. W. A. Volger 11/13/78 ANI.

REC'D 11/3/78  
 RECORD PACKAGE  
 PAGE 6 of 34  
 NB 6344

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/19/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     2                      
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     See Sheet 2  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A
4. Identification of System                     RHR Shutdown Cooling Mode, 149G, Class 1
5. (a) Applicable Construction Code                     ASME sec. III 19 71                     Edition,                     thru W72                     Addenda,                     N/A                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements                     19 89, no adden.
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)
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1. Piping Sub Assembly	Bechtel	N/A	N/A	SP-DCA-110-1	1982	Replaced	Yes
Piping Sub Assembly	PP&L	N/A	N/A	SP-DCA-110-1	1998	Replacement	No
2. Globe Valve	Borg Warner	12246	N/A	151051	1990	Replaced	Yes
Globe Valve	Yarway	C2654	N/A	151051	1990	Replacement	Yes
3. Globe Valve	Borg Warner	12289	N/A	151053	1976	Replaced	Yes
Globe Valve	Yarway	C2648	N/A	151053	1990	Replacement	Yes
4. Relief Valve	Lonegran	510138-1-15-1	N/A	PSV-151F126	1979	Repaired	Yes

7. Description of Work                     Replaced piping and globe valves with equivalent components/machine grind seat.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 2  
Other  Pressure                     N/A                     psi Test Temp.                     N/A                     °F

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

FORM NIS-2 (Back)

9. Remarks NPV-1 DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

CONSTRUCTION CODE FOR YARWAY VALVE IS ASME SECTION III 1986 NO ADDENDA.

CONSTRUCTION CODE FOR BORG WARNER IS ASME SECTION III 1974 W 74.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Aug 27, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period MARCH 16 1998 to APRIL 30 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 27 1998





SHOP ORDER 72349 REGISTER 94678  
 FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES  
 As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and certified by Yarway Corporation, Blue Bell, PA 19422  
(name and address of N Certificate Holder)

2. Manufactured for Penna. Power & Light Company, Allentown, PA 18101  
(name and address of Purchaser or Owner)

3. Location of installation Susquehanna SES, Berwick, PA 18603  
(name and address)

4. Model No., Series No., or Type 56158-F316L Drawing 109408 Rev. A CRN ---

5. ASME Code, Section III, Division 1: 1986 --- 1 ---  
(edition) (addenda date) (class) (Code Case no.)

6. Pump or valve Valve Nominal inlet size 1 Outlet size 1  
SA-182 SA-564  
(in.) (in.)

7. Material: Body Gr. F316L Bonnet Gr. 630 Disk AMS5385E Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
C2648	---	BA	2906	NI
through				
C2664				

\* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/86) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

90-1092  
 RE ORDER PACKED  
 DATE 1988 36

91077333



8. Remarks Nuclear Service Valves, Qty. 17  
Bonnet (column d) is replaced by backseat bushing in this valve design.
9. Design conditions --- psi --- °F or valve pressure class 1500  
(pressure) (temperature)
10. Cold working pressure 3000 psi at 100°F
11. Hydrostatic test 4500 psi. Disk differential test pressure 3300 psi

CERTIFICATION OF DESIGN

Design Specification certified by Matthew Hober Jr. P.E. State PA Reg. no. 20118E  
 Design Report certified by George J. Loos P.E. State NJ Reg. no. 23225

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N-2449 Expires 11/14/92  
 Date 10/24/90 Name Yarway Corporation Signed [Signature]  
(N Certificate Holder) (authorized representative)

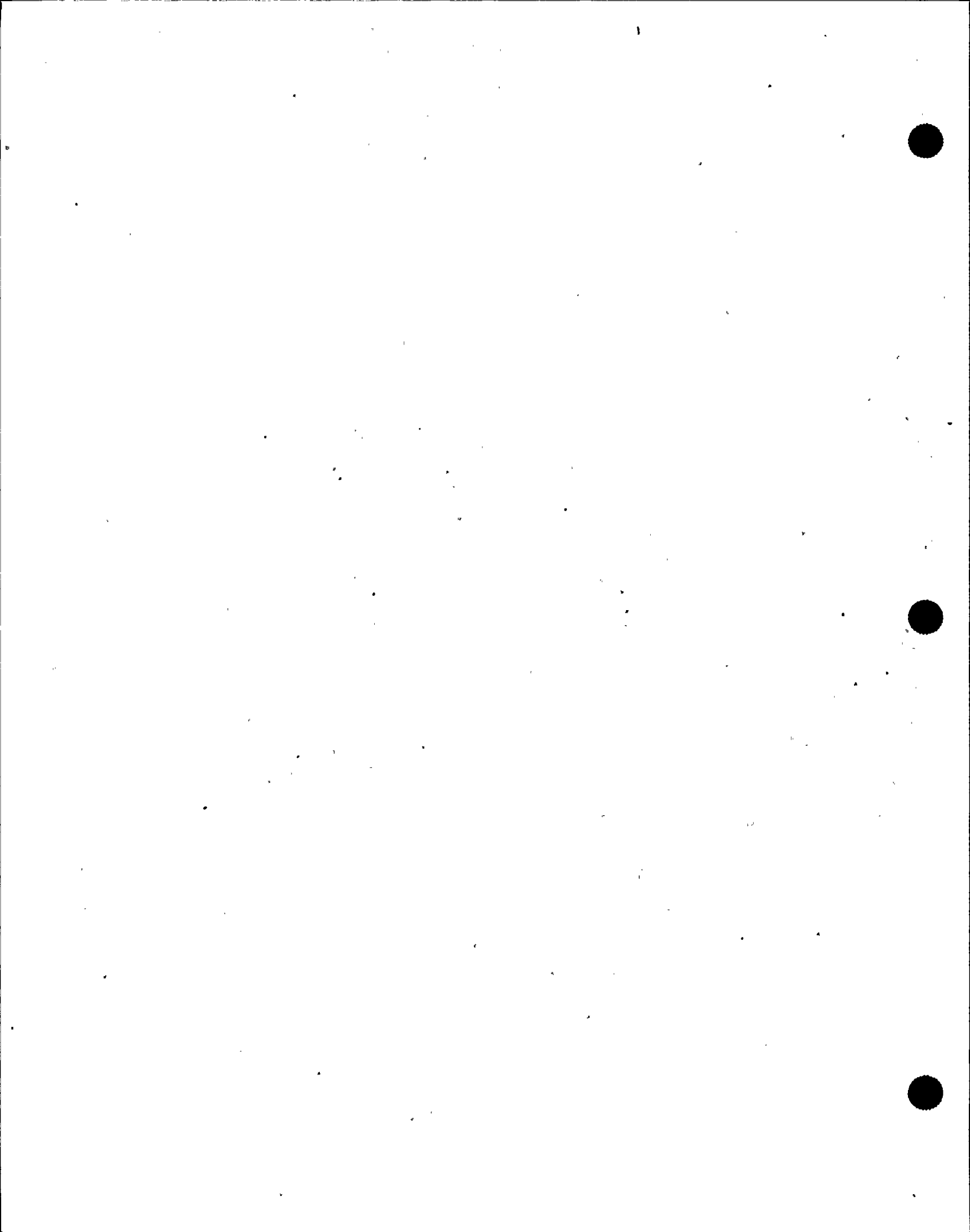
CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Ins. Co. of Norwood, MA\* have inspected the pump, or valve, described in this Data Report on October 24, 1990 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 10-24-90 Signed [Signature] Commissions P 2006  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsement) state or prov. and no.)

(1) For manually operated valves only.



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     9/4/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           1           of           1            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     WA# P70762 ASME CODE FORM NO: 97-150-007  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address  
 Expiration Date                     N/A                    

4. Identification of System                     RCIC Water Loop System, 150A, Class 2                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
(1) Disc	Edward Valve	35AEQ	N/A	150F047	1992	Replaced	Yes
Disc	Edward Valve	G-85	N/A	150F047	1991	Replacement	Yes

7. Description of Work                     Replaced Existing Disc.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  VT-2 per SE-150-301  
 Other  Pressure           1030           psi Test Temp.           548           °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

ORIGINAL CODE AND REPLACEMENT CODE FOR EDWARD VALVE IS ASME III, 1980 SUMMER '82.

CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date Sept 21, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period OCT. 7 1997 to MAY 18 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature      National Board, State, Province, and Endorsements

Date SEPT 22 1998

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

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

1. Manufactured and certified by EDWARD VALVES INC., 1900 S. SAUNDERS ST., RALEIGH, NC 27603  
(name and address of NPT Certificate holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. P.O. Box 467, BERWICK PA 18603  
(name and address of purchaser)
3. Location of installation SUSQUEHANNA SES BERWICK, PA 18603  
(name and address)
4. Type D32610069 AS6701/AT32621 N/A N/A 1991  
(drawing no.) (ASME Code no.) (ASME Code no.) (year built)
5. ASME Code, Section III: 1980 SUMMER 1982 2 N/A  
(edition) (edition date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: DISK FOR 2" CHECK VALVE

S.O. 36 - 19993

8. Nom. thickness (in.) N/A Min. design thickness (in.) PERM 4 Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerial Order
(1) <u>C-85</u>	<u>N/A</u>
(2) <u>C-86</u>	<u>N/A</u>
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number in Numerial Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 2665 psi. Temp. 700 °F. Hydro. test pressure N/A at temp. °F

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

RECORD PACKAGE  
PAGE 6 OF 13



PAGE 2 OF 2  
(Corrected 4/1/91)

FORM N-2 (back)

Item 1, P. 1, Serial No. C-85FC-86

CERTIFICATION OF DESIGN

Design specifications certified by DALE SATTAR P.E. State PA Reg. no. 09525E  
Design report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. N1563 Expires 11/26/91  
Date 5/30/91 Name EDWARD VALVES INC Signed [Signature]

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NORTH CAROLINA and employed by HSBT & I Co. ARTICHO, CT have inspected these items described in this Data Report on 5-30-91 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, and that each part listed has been authorized for stamping on the date shown above.

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

Date 5-30-91 Signed [Signature] Commissions NC 1083

91-0832  
RECORD PACKAGE  
PAGE 7 OF 13

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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     8/19/98                      
Sheet           1           of           1          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                      
WA #           S64775           CODE FORM NO. 97-150-010  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

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

4. Identification of System                     RCIC Turbine and Auxiliaries, System 150B, Class I                    

5. (a) Applicable Construction Code           ASME sec. III           19           74           Edition,           thru W74           Addenda,           No           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
Stem/Disc Assembly	YARWAY	Valve S/N 4921	N/A	149F037	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	AV94-A10	N/A	149F037	1997	REPLACEMENT	YES
Backseat Bushing	YARWAY	Valve S/N 4921	N/A	149F037	1976	REPLACED	NO
Backseat Bushing	YARWAY	HT No. 5293	N/A	149F037	1997	REPLACEMENT	NO

7. Description of Work                     Replaced Valve Stem/Disc Assembly and Backseat Bushing with Equivalent Parts.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  NON-VT-2 per MI-PS-008  
Other  Pressure           N/A           psi Test Temp.           N/A           °F

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

FORM NIS-2 (Back)

9. Remarks Code Data Report(s) Attached

Applicable Manufacturer's Data Reports to be attached

Construction Code for Yarway Replacement Stem/Disc Assembly is ASME Sec. III 1986 Edition.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 28, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period DEC. 19 1997 to MAY 29 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province and Endorsements

Date Aug 28 1998

SHOP ORDER 13258

CORRECTED COPY Jul 10/28/97  
Jul 10/28/97

STER(S) 01040

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 1

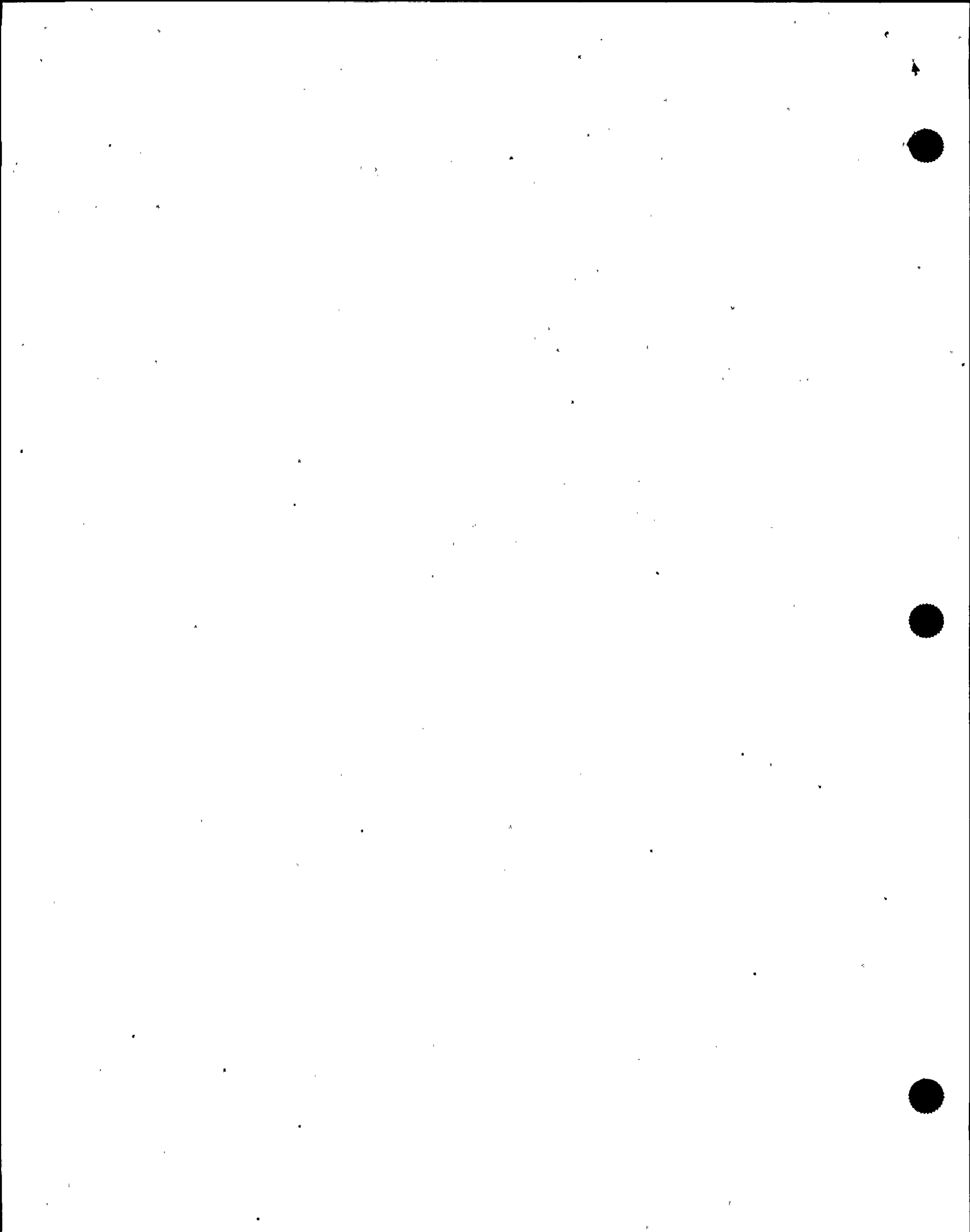
- Manufactured and certified by YARWAY CORPORATION\*, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760  
\* A SUBSIDIARY OF KEYSTONE INTERNATIONAL, INC. (name and address of NPT Certificate Holder)
- Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24506  
(name and address of purchaser)
- Location of installation STOCK  
(name and address)
- Type 969155-06 AMS5385E (disc) 52,000 PSI MIN. N/A 1997  
(drawing no.) (matl. spec. no.) (tensile strength) (CRN) (year built)
- ASME Code, Section III: 1986 NONE 1 Jul 10/28/97  
(edition) (addenda data) (class) (Date)
- Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —  
(no.)
- Remarks: FABRICATED IN ACCORDANCE WITH CONSTRUCTION DATA 969005 REV. A, PRESSURE RETAINING PARTS FOR YARWAY SERIES 5500 GLOBE VALVE. THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR RECONCILING THIS CONSTRUCTION DATA WITH THE DESIGN SPECIFICATION FOR THE FACILITY USING THE PARTS.
- Nom. thickness (in.) — Min. design thickness (in.) — Dia. ID (ft. & in.) — Length overall (ft. & in.) —
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) AV94-A1	—	(26)	
(2) AV94-A2	—	(27)	
(3) AV94-A3	—	(28)	
(4) AV94-A4	—	(29)	
(5) AV94-A5	—	(30)	
(6) AV94-A6	—	(31)	
(7) AV94-A7	—	(32)	
(8) AV94-A8	—	(33)	
(9) AV94-A9	—	(34)	
(10) AV94-A10	—	(35)	
(11) AV94-A11	—	(36)	
(12) AV94-A12	—	(37)	
(13) AV94-A13	—	(38)	
(14) AV94-A14	—	(39)	
(15) AV94-A15	—	(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

FTI  
OP SUP  
CBR

10. Design pressure — psi. Temp. — °F Hydro. test pressure N/A at temp —  
\*\*FOR ANSI CLASS 1500 VALVES (when applicable)

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



CERTIFICATION OF DESIGN

Design specifications certified by (SEE REMARKS) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) STEM AND DISC ASSEMBLIES, 1 INCH conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires NOVEMBER 14 1998

Date 10/24/97 Name YARWAY CORPORATION Signed [Signature]  
(NPT Certificate Holder) (authorized representative)

F. W. PESZKA

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by \* ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 10/24/97 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

\*FACTORY MUTUAL ENGINEERING ASSOCIATION

Date 10/24/97 Signed [Signature] Commissions NB9541 "N" PA2389  
(Inspector) (Natl. Bd. (incl. endorsements) state or prov. and no.)

10/28/97 [Signature] NB 11207 "N" PA 2607

FTI  
OP SUP  
CBR

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/17/98  
 Sheet 1 of 4

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One  
 See Sheet 4  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

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

4. Identification of System RCIC Turbine & Auxiliary (Steam Loops & Flow Control), 150B, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
1) Small Pipe Assembly	Bechtel	N/A	N/A	SP-DBB-109-3	1982	REPLACED	YES
Small Pipe Assembly	PP&L	N/A	N/A	SP-DBB-109-3	1997	REPLACEMENT	NO
2) 1" Globe Valve	Yarway	5933	N/A	1RV-LSH-1N010	1976	REPLACED	YES
1" Globe Valve	Yarway	7861	N/A	1RV-LSH-1N010	1977	REPLACEMENT	YES
3) 1" Globe Valve	Yarway	5958	N/A	2RV-LSH-1N010	1976	REPLACED	YES
1" Globe Valve	Yarway	3444	N/A	2RV-LSH-1N010	1976	REPLACEMENT	YES

7. Description of Work Rplc'd Small Pipe Assemblies, Valves, Discs & Prts with Equivalent/ Ground & Rewelded Crack.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 4 of 4  
 Other  Pressure 1031 psi Test Temp. 548 °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED. CODE OF CONSTRUCTION FOR ANCHOR DARLING VALVE IS ASME

Applicable Manufacturer's Data Reports to be attached

SEC. III, 1971 W72. CODE CASES 1516-1 AND 1534. YARWAY ORIGINAL AND REPLACEMENT CODE IS ASME

SECTION III, 1974 W74. SECTION XI 1989 ED. NO ADD. CODE CASE N316 FOR ITEMS 1 THRU 6. REPLACEMENT CODE

FOR ITEM 7 IS ASME SECTION III 1986, NO ADDENDA. ITEM 10: WAS NOT PROPERLY IDENTIFIED IN UNIT 1 9TH RIO

OUTAGE SUMMARY REPORT AND IS BEING RESUBMITTED WITH ITS ENTIRE IDENTIFICATION NUMBER.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Oct 7, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period FEB 2 1997 to MAY 29 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Oct. 7 1998



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

1. Owner Pennsylvania Power & Light Co. Date 9/17/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 4  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 4  
Address Repar Organization P.O. No., Job No., etc.

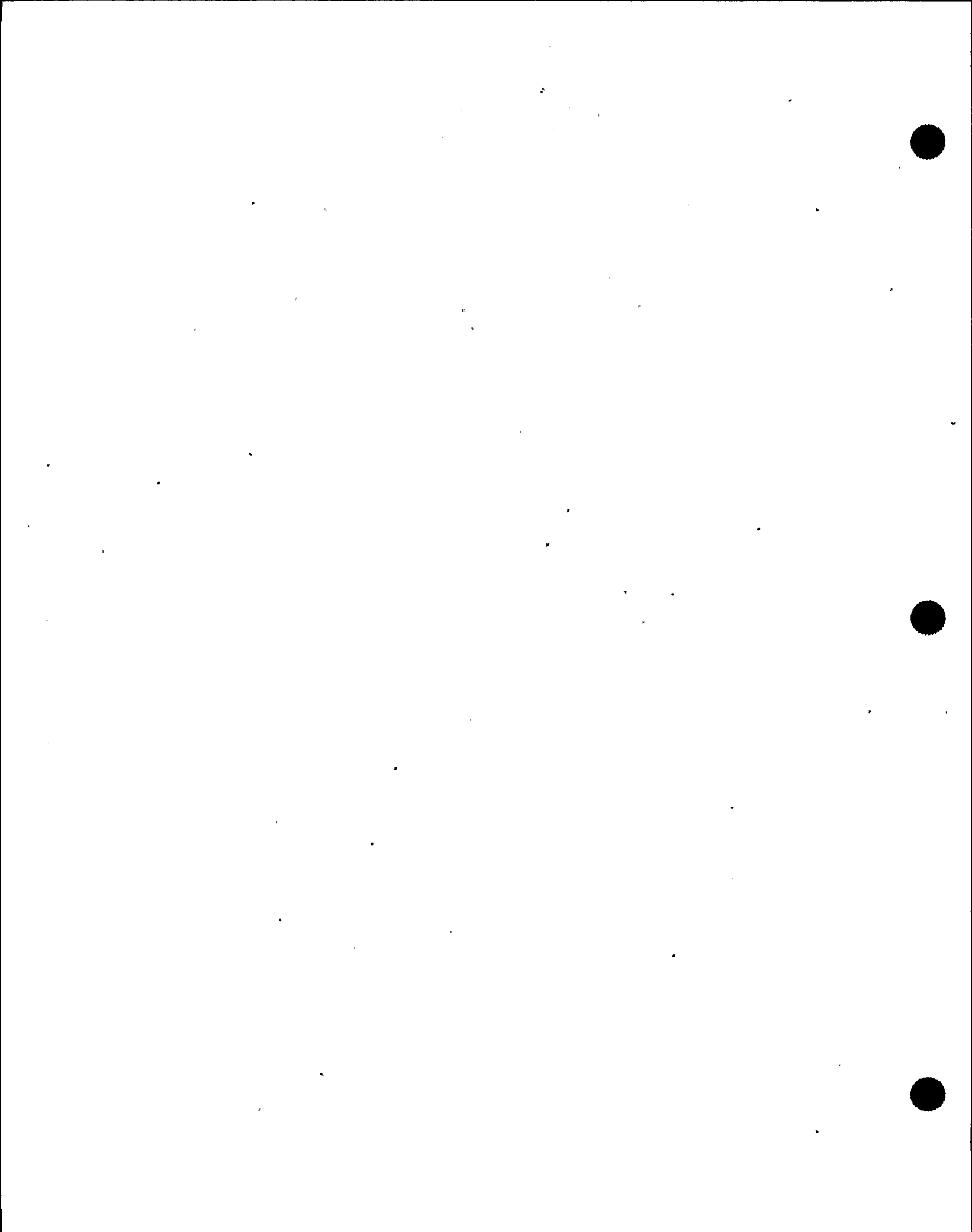
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System RCIC Turbine & Auxiliary (Steam Loops & Flow Control), 150B, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4) Small Pipe Assembly	Bechtel	N/A	N/A	SP-DBB-109-4	1982	REPLACED	YES
Small Pipe Assembly	PP&L	N/A	N/A	SP-DBB-109-4	1997	REPLACEMENT	NO
5) 1" Globe Valve	Yarway	5940	N/A	5RV-LSH-1N010	1976	REPLACED	YES
1" Globe Valve	Yarway	A8532	N/A	5RV-LSH-1N010	1979	REPLACEMENT	YES
6) Stem/Disc Assembly	Yarway	Valve S/N 6041	N/A	149010	1976	REPLACED	YES
Stem/Disc Assembly	Yarway	AV94-A1	N/A	149010	1997	REPLACEMENT	YES
7) Backseat Bushing	Yarway	Valve S/N 6041	N/A	149010	1976	REPLACED	NO
Backseat Bushing	Yarway	HT. No. 5293	N/A	149010	1984	REPLACEMENT	NO
8) 1" Globe Valve	Yarway	Valve S/N 6127	N/A	149021	1976	REPLACED	YES
1" Globe Valve	YARWAY	Valve S/N C2770	N/A	149021	1992	REPLACEMENT	YES
9) Small Pipe Assembly	BECHTEL	N/A	N/A	SP-DBB-109-2	1982	REPLACED	YES



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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     9/17/98                      
 Sheet           3           of           4          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                      
 See Sheet 4  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

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

4. Identification of System                     RCIC Turbine & Auxiliary (Steam Loops & Flow Control), 150B, Class 2                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
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Small Pipe Assembly	PP&L	HT. No. 663044	N/A	SP-DBB-109-2	1998	REPLACEMENT	NO
10) Small Pipe Support	Bechtel	N/A	N/A	SP-DBB-109-H-2009	1982	REPAIRED	NO
11) Valve	Anchor Darling	Valve S/N E5853-87-1	N/A	HV150F045	1992	REPAIRED	YES
12) Disc	Anchor Darling	Valve S/N E5853-87-1	N/A	HV150F045	1976	REPLACED	YES
Disc	Anchor Darling	4	N/A	HV150F045	1997	REPLACEMENT	YES

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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     9/17/98                    

Sheet           4           of           4          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                    

                    See Below                    

Repar Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Type Code Symbol                     N/A                    

Authorization No.                     N/A                    

Expiration Date                     N/A                    

4. Identification of System                     RCIC Turbine & Auxillary (Steam Loops & Flow Control), 150B, Class 2                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

6. Identification of Components Repaired or Replaced and Replacement Components

Items	Susquehanna Work Authorization Number	Code Repair Form No.	Description of Test
1	S64920	97-150-004	NON VT-2 per MI-PS-008
2	S64920	97-150-004	NON VT-2 per MI-PS-008
3	S64920	97-150-004	NON VT-2 per MI-PS-008
4	S64920	97-150-005	NON VT-2 per MI-PS-008
5	S64920	97-150-005	NON VT-2 per MI-PS-008
6	S74498	98-150-001	NON VT-2
7	S74498	98-150-001	NON VT-2
8	S74498	98-150-002	NON VT-2 per MI-PS-008
9	S74498	98-150-002	NON VT-2 per MI-PS-008
10	S53828	95-150-004	N/A
11	S74076	97-150-008	VT-2 per SE-150-301
12	S74076	97-150-008	VT-2 per SE-150-301

3 0 | 5 | 1 | 0  
FORM NR-1

CUSTOMER: Pennsylvania Power & Light  
P.O. #4732-43-1



DATA REPORT OF RUPTURE DISKS  
As Required by the Provisions of the ASME Code Rules,  
Section III, Div. 1

SAFETY SYSTEMS

1. Manufactured by: BS&B Safety Systems, Inc., Tulsa, Oklahoma  
(Name and address of Manufacturer)

IDENTIFICATION OF RUPTURE DISK

- 2. Type or Style No. BV Lot No. 84090025-1
- 3. Disk Dimensional Characteristics:  
Size: 16" Capacity 431,434 SCFM Air
- 4. Material Specification: ASTM A-167 TY 316 (Stainless Steel)
- 5. Drawing No. N/A
- 6. Burst Pressure 166.5 PSIG Max. 150.5 PSIG Min.
- 7. Coincident Disk Temperature 380 Deg F
- 8. Element used in tests Air
- 9. Cyclic Test Results (if required) N/A

CERTIFICATION

10. Place of Test: Tulsa, Oklahoma Date of Test: 10/22/84

We certify the above data to be correct and that these disks have been  
manufactured and tested to the requirements of the ASME Code.

SIGNED: BS&B Safety Systems, Inc. BY: D. L. Vavra  
DATE: October 22, 1984 D. L. Vavra  
Quality Control Manager

No. of Pieces Shipped: 20

Actual Burst Test Results: 183 PSIG @ 72 deg F  
160, 157 PSIG @ 380 Deg F

84-2007  
4 14

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Yarway Corporation, Blue Bell, PA Order No. 60511  
(Name & Address of Manufacturer)

2. Manufactured for Bechtel Power Corporation Order No. 9645-M-251.0  
(Name and Address)

3. Owner Mississippi Power and Light Company

4. Location of Plant Port Gibson, Mississippi

5. Pump or Valve Identification Nuclear Service Valves - Serial Numbers  
7860 Thru 7866 / 7861  
(Brief description of service for which equipment was designed)

(a) Drawing No. 103271-04 Prepared by Yarway Corporation

(b) National Board No. NONE

6. Design Conditions 2350 psi 700 °F or Pressure Class \_\_\_\_\_ (1)  
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1  
 Edition 1974, Addenda Date Winter 1974, Case No. None

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	A8	AMS 5362	Nova/Howmet	Disc
(b) Forgings	R6	SA 105	Cape Ann Tool Co	Body
	YW 684	SA 193-87	Republic Steel	Backseat Gushing

(1) For manually operated valves only.

\*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 2 1/2" x 11", (2) information on items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

RECORDED  
 PAGE 1/1

S/N 7860 thru 7866

FORM NO. 1 (Rev. 5)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bulging	None		
(d) Other Tests	None		

8. Hydrostatic test 5400 psi.

**CERTIFICATION OF DESIGN**

Design information on file at Bechtel Power Corporation, Gaithersburg, Maryland  
 Stress analysis report on file at Bechtel Power Corp., Gaithersburg, Maryland  
 Design specifications certified by Thomas W. Habermas (1) Prof. Eng. State ISS Reg. No. 5064  
 Stress analysis report certified by Harold I. Gregg (1) Prof. Eng. State Pa. Reg. No. 6853E  
 (1) Signature not required. List name only.

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

Date March 18, 19 77 Signed Yarway Corporation *W. A. Vigler*  
 (Manufacturer)  
 Certificate of Authorization No. N-899 expires October 28, 1977

**CERTIFICATE OF SHOP INSPECTION**

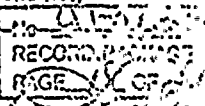
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Phila. Manufacturers Mutual Insurance Co., Phila. PA have inspected the equipment described in this Data Report on March 18, 19 77, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date March 18 19 77

*David L. Gaullary*  
 (Inspector)  
 David L. Gaullary \_\_\_\_\_ Commissions ND 7525 PA 2159  
 (National Board, State, Province and No.)

\*Part of the Factory Mutual System  
 \*\*Corrected copy - Mfg. Rep. *W. A. Vigler 11/1/78* NH. *7/1/78*



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

PG 75221

As Required by the Provisions of the ASME Code Rules <sup>18 3A II</sup> C92-183-111

1. Manufactured by Yarway Corporation, Blue Bell, PA Order No. 40751  
(Name & Address of Manufacturer)

2. Manufactured for Bechtel Power Corporation Order No. 9643-M-251.0  
(Name and Address)

3. Owner Mississippi Power and Light Company

4. Location of Plant Port Gibson, Mississippi

5. Pump or Valve Identification Nuclear Service Valves - Serial Numbers  
3436 Thru. 3460 Inclusive D.O. 11/22/78 3444  
(Brief description of service for which equipment was designed)

(a) Drawing No. 103271-04 Prepared by Yarway Corporation

(b) National Board No. None

6. Design Conditions 2350 psi 700 °F or Pressure Class 1500 PSI (1)  
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1  
 Edition 1974, Addenda Date Winter 1974, Case No. None

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	A5	AMS 5382	Nova/Howmet	Disc
(b) Forgings	N1	SA 105	Cape Ann Tool Co.	Body
	YW 684	SA 193 B7	Republic Steel	Backseat Bushing

(1) For manually operated valves only.

\*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2, 5a and 7b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

177 255



Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting None			
(d) Other Parts None			

2. Hydrostatic test 5400 psi.

**CERTIFICATION OF DESIGN**

Design information on file at Bechtel Power Corporation, Gaithersburg, Maryland  
 Stress analysis report on file at Bechtel Power Corp., Gaithersburg, Maryland  
 Design specifications certified by Thomas W. Habermas (I) Prof. Eng. State MISS Reg. No. 50621  
 Stress analysis report certified by Harold I. Gregg (I) Prof. Eng. State Pa. Reg. No. 20535  
 (I) Signature not required. List name only.

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

Date AUGUST 23, 1976 signed Yarway Corporation by G. W. Volger  
(Manufacturer)  
 Certificate of Authorization No. N-899 expires October 28, 1977 W: A. Volgar

**CERTIFICATE OF SHOP INSPECTION**

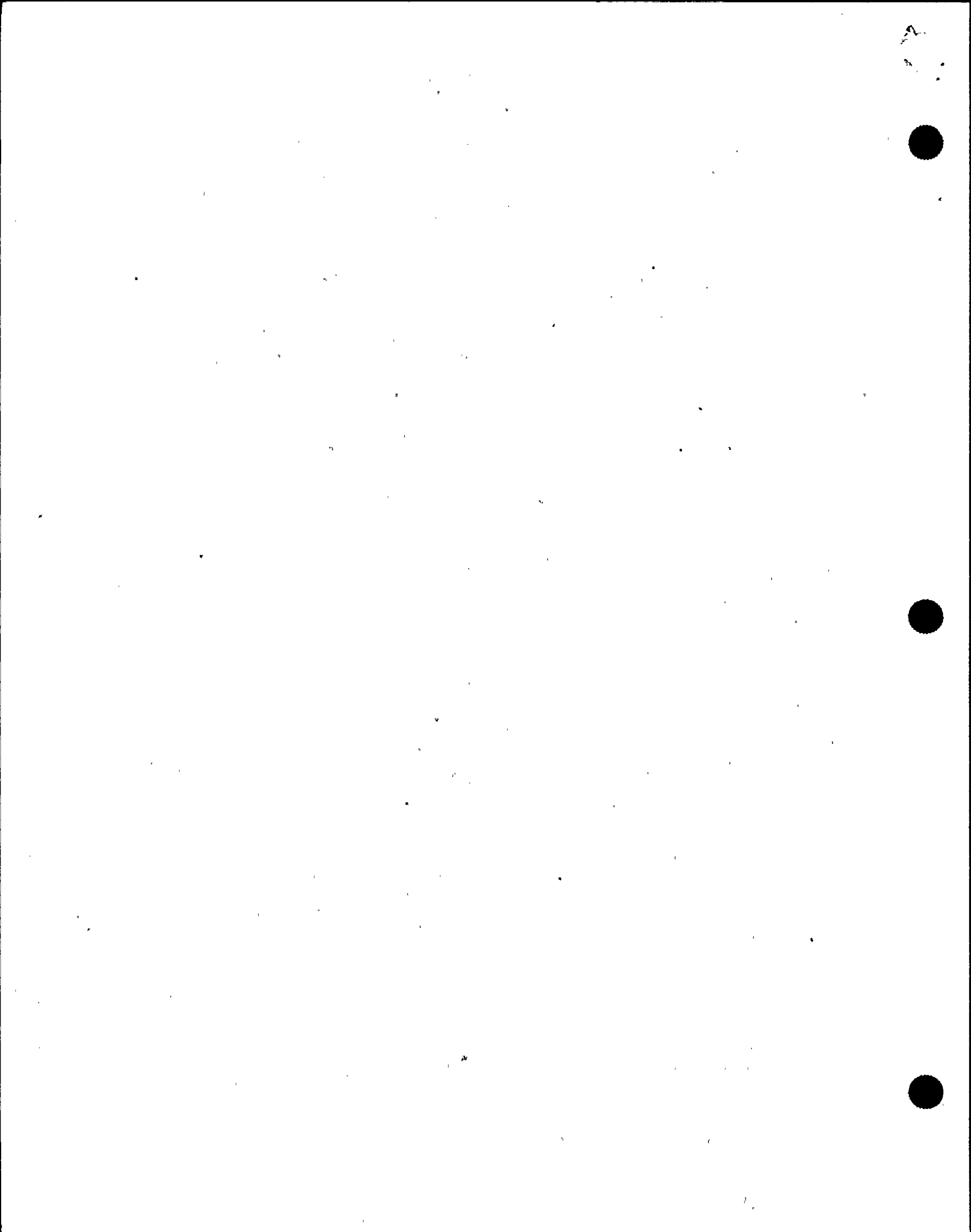
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Phila. Manufacturers Mutual Insurance Co. Phila. PA have inspected the equipment described in this Data Report on AUGUST 23, 1976, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date AUGUST 23, 1976

D. Daullary Commissions NB 7525 PA 2159  
(Inspector) (National Board, State, Province and No.)

\*Part of the Factory Mutual System  
 \*\*Corrected copy - Mfg. Rep. G. W. Volger 11/1/78  
 ANI. 11/3/78  
 NB 6344



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

As Required by the Provisions of the ASME Code, Section III, DIV. 1, SHOP ORDER 01195

REGISTER 16252

Manufactured by Varway Corporation, Norristown & Narcissa Rds., Blue Bell, PA 19422  
(Name and Address of N Certificate Holder)  
Manufactured for Penna. Power & Light Co., Two N. 9th St., Allentown, PA 18101  
(Name and Address of Purchaser or Owner)

Location of Installation: Susquehanna SES, Berwick, PA 18603  
(Name and Address)

Pump or Valve Valve Nominal Inlet Size (Inch) \_\_\_\_\_ Outlet Size (Inch) \_\_\_\_\_

(a) Model No. 5615B-SA105 (b) N Certificate Holder's Serial No. C2760 (c) Canadian Registration No. \_\_\_\_\_ (d) Drawing No. 111082/None (e) Class 1 (f) Year of Type 1992

through 62783

Nuclear Service Globe Valves

(Brief description of service for which equipment was designed)

DESIGN CONDITIONS OF COMPLIANCE

Design Conditions	ps	Or Valve Pressure Class	1500
Cold Working Pressure	3600		
Pressure Retained Pressure			

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Casting G90	AMS 5385E	Southern Tool, Inc.	DISC
(b) Forgings E87	ASME SA105	Endicott Forging & Machine Inc.	Body

(1) For manually operated valves only. The design of the valve shall be based on the design of the valve shown on the drawing and on the data report. The design of the valve shall be based on the design of the valve shown on the drawing and on the data report. The design of the valve shall be based on the design of the valve shown on the drawing and on the data report.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A	PA 18603		
Outlet Size			
(d) Other Parts			
4345	ASME-SA182-Gr. F6a Glass-2	Atlas Steels	Backseat Bushing

Hydrostatic test 5400 psi. Diff. test pressure 3960 psi.

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974 with Addenda H1974, Code Case No. \_\_\_\_\_, Date 3/28/77.

Signed Yarway Corporation by F. W. Peszka  
(N Certificate Holder)

Our ASME Certificate of Authorization No. N2449 to use the N symbol expires 11/14/92.

### CERTIFICATION OF DESIGN

Design information on file at Pennsylvania Power & Light Company  
 Stress analysis report (Class 1 only) on file at Pennsylvania Power & Light Company

Design specifications certified by (1) John R. Schmiedel, Richard O. Schlueter, Sidney A. Copland  
 PE State PA, PA, PA Reg. No. 19370E, 26382E, 19877E

Stress analysis certified by (1) George J. Paptzun  
 PE State PA Reg. No. PE-034809-E

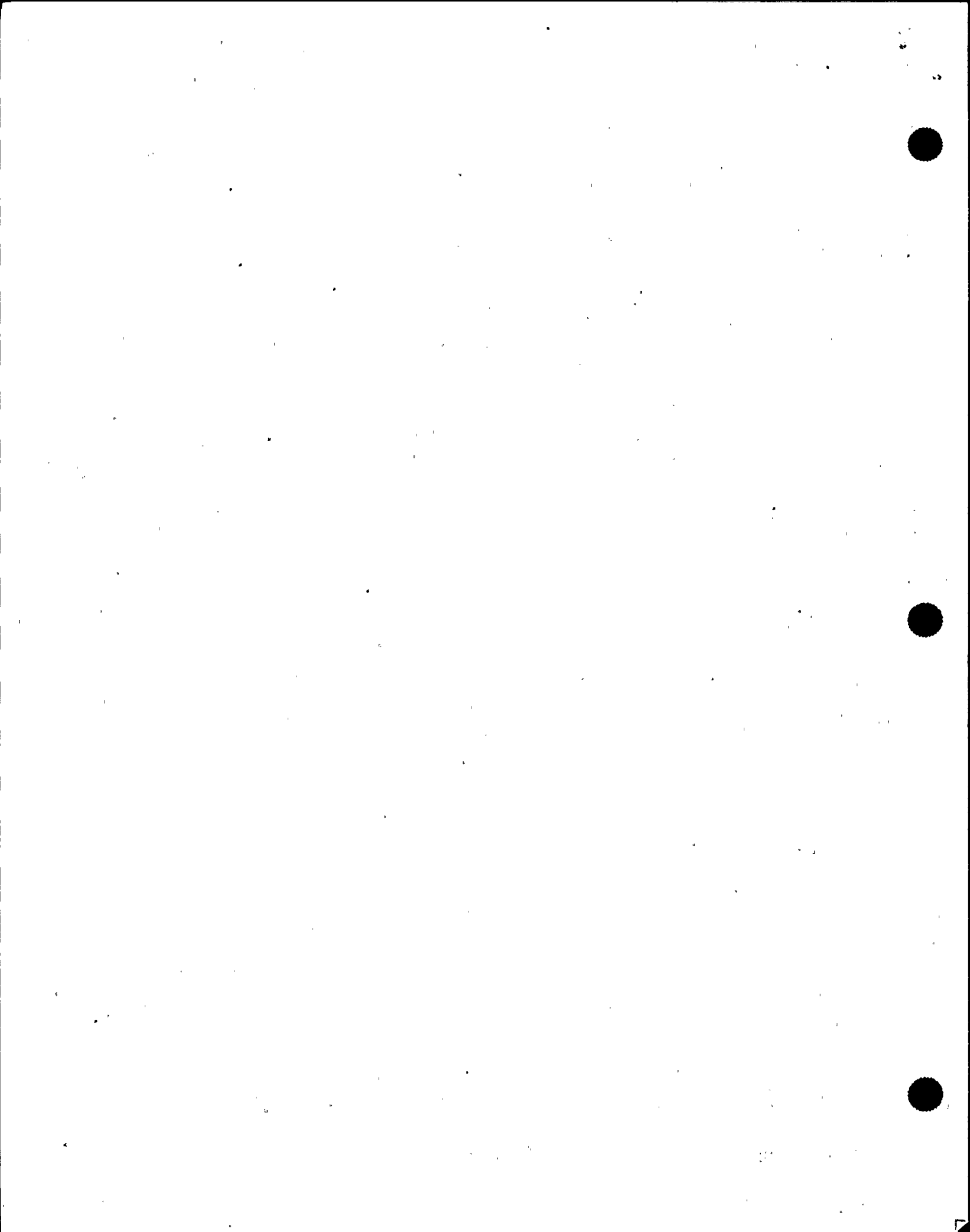
(1) Signature not required. List name only.

### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania, and employed by Arkwright Mutual Insurance of Norwood, MA have inspected the pump or valve, described in this Data Report on FEB 28, 19 92, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for personal injury or property damage, or loss of earnings or other financial or consequential damage, arising out of the use of the equipment described in this Data Report, or from any defect in or failure of the equipment described in this Data Report.

F. W. Peszka  
 Commission Inspector



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

As Required by the Provisions of the ASME Code Rules

P. O. # 40461

1. Manufactured by: YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 41191  
(Name & Address of Manufacturer)
2. Manufactured for: BECHTEL POWER CORPORATION Order No. 9645-M-251.0  
(Name and Address)
3. Owner: MISSISSIPPI POWER AND LIGHT COMPANY
4. Location of Plant: PORT GIBSON, MISSISSIPPI
5. Pump or Valve Identification: NUCLEAR SERVICE VALVES SIZE - 1"  
 SERIAL NUMBER(S): A8519 THRU A8543 (A8532)  
(Brief description of service for which equipment was designed)

- (a) Drawing No. 103271-04 Prepared by: YARWAY CORPORATION
- (b) National Board No. ---
6. Design Conditions: --- psi --- °F or Pressure Class 1500 PSI (1)  
(Pressure) (Temperature)
7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1
- Edition: 1974, Addenda Date: WINTER 1974, Case No. NONE

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C8	AMS 5385	NOVA/HOWMET CORP.	DISC
(b) Forgings	YR	SA105	CAPE ANN TOOL CO.	BODY
	1683	SA182 Gr. F6.2	CYCLOPS CORP.	BACKSEAT BUSHING

REC'D PACIFIC  
PAGE 7 OF 39

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

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FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	NONE		
(d) Other Parts	NONE		

2. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND  
 Stress analysis report on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND  
 Design specifications certified by THOMAS K. HARERMAS (1) Prof. Eng. State MTSS Reg. No. 6064  
 Stress analysis report certified by HAROLD T. GEEGG (1) Prof. Eng. State PA Reg. No. 9055  
 (1) Signature not required. List name only.

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

Date 8/2/79 19 79 Signed YARKAY CORPORATION By W. A. VOJGER  
(Manufacturer)  
 Certificate of Authorization No. N 1891 expires OCTOBER 21, 1980

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS of MUTUAL INSURANCE CO. OF PHILADELPHIA, PA have inspected the equipment described in this Data Report on 8/2 19 79, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8/2 19 79

Wendell Scott Hendricks Commission NR 344  
(Inspector) (National Board, State, Province and Fed)

\*PART OF THE FACTORY MUTUAL SYSTEM

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CORRECTED COPY *206/10/20/97*  
*206/10/20/97*

SHOP ORDER 13258

STER(S) 01040

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by YARWAY CORPORATION\*, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760  
\* A SUBSIDIARY OF KEYSTONE INTERNATIONAL, INC. (name and address of NPT Certificate Holder)
2. Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24508  
(name and address of purchaser)
3. Location of installation STOCK  
(name and address)
4. Type 969155-08 AMS5385E (disc) 52,000 PSI MIN. N/A 1997  
(drawing no.) (mat'l spec. no.) (tensile strength) (CRM) (year built)
5. ASME Code, Section III: 1986 NONE 1 206/10/20/97  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) --- Revision --- Date ---  
(no.)
7. Remarks: FABRICATED IN ACCORDANCE WITH CONSTRUCTION DATA 969005 REV. A. PRESSURE RETAINING PARTS FOR YARWAY SERIES 5500 GLOBE VALVE. THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR RECONCILING THIS CONSTRUCTION DATA WITH THE DESIGN SPECIFICATION FOR THE FACILITY USING THE PARTS.
8. Nom. thickness (in.) --- Min. design thickness (in.) --- Dia. ID (ft. & in.) --- Length overall (ft. & in.) ---
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) AV94-A1	---	(26)	
(2) AV94-A2	---	(27)	
(3) AV94-A3	---	(28)	
(4) AV94-A4	---	(29)	
(5) AV94-A5	---	(30)	
(6) AV94-A6	---	(31)	
(7) AV94-A7	---	(32)	
(8) AV94-A8	---	(33)	
(9) AV94-A9	---	(34)	
(10) AV94-A10	---	(35)	
(11) AV94-A11	---	(36)	
(12) AV94-A12	---	(37)	
(13) AV94-A13	---	(38)	
(14) AV94-A14	---	(39)	
(15) AV94-A15	---	(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

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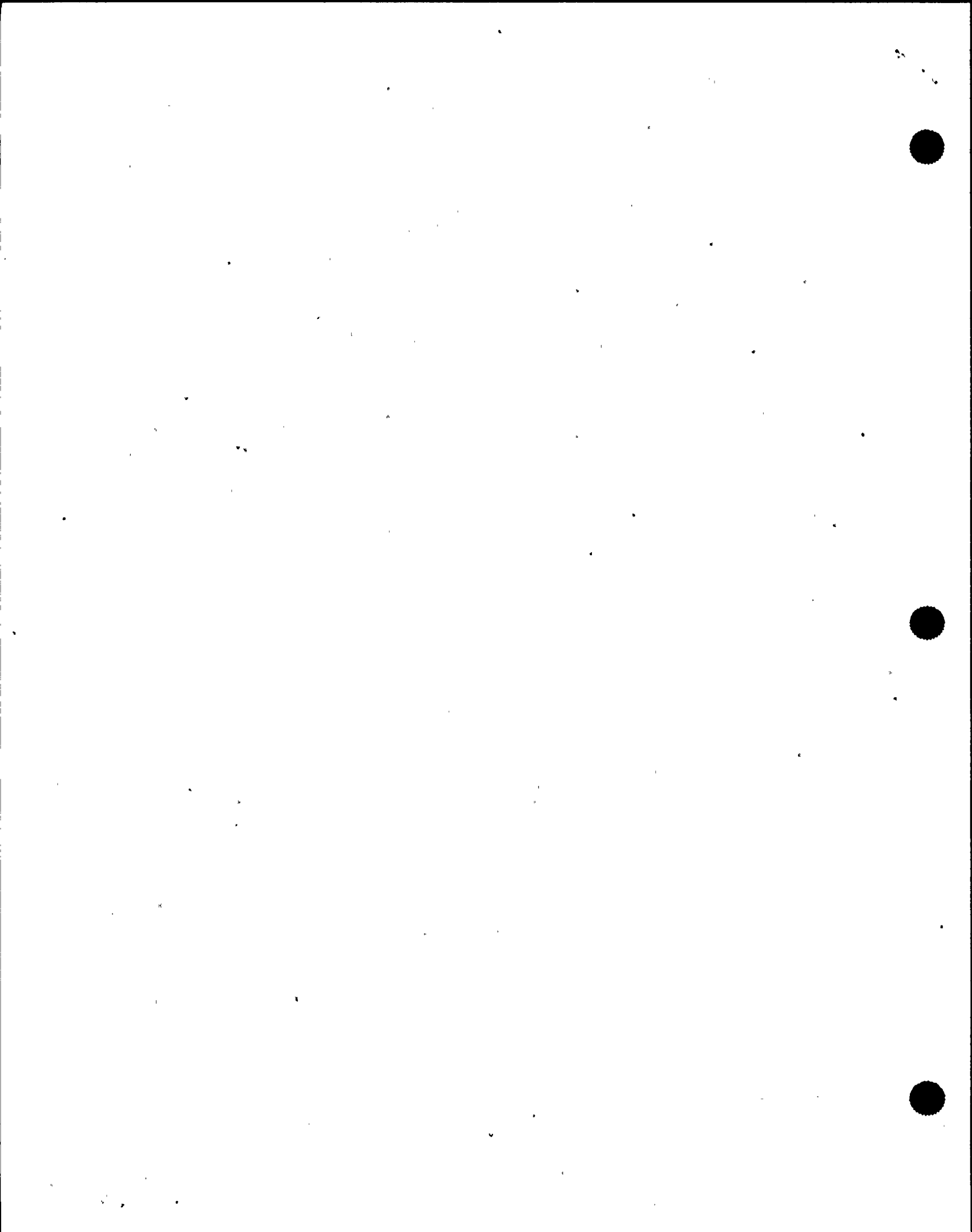
10. Design pressure --- psi. Temp. --- °F Hydro. test pressure N/A at temp ---  
\*\*FOR ANSI CLASS 1500 VALVES (when applicable)

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

(12/86)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 0700





FORM N-2 (back)

Mr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

Design specifications certified by (SEE REMARKS) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)  
Design report\* certified by N/A P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) STEM AND DISC ASSEMBLIES, 1 INCH conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires NOVEMBER 14, 1998  
Date 10/24/97 Name YARWAY CORPORATION Signed [Signature]  
(NPT Certificate Holder) (authorized representative)  
F. W. PESZKA

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 10/24/97 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

\*FACTORY MUTUAL ENGINEERING ASSOCIATION

Date 10/24/97 Signed [Signature] Commissions NB9541"N", PA2389  
10/28/97 [Signature] (authorized inspector) (Natl. Bd. [incl. endorsements] state or prov. and no.)  
NB 11207 "N" PA 2607

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FORM NPV-T-N CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES  
As Required by the Provisions of the ASME Code, Section III, DIV. 1, SHOP ORDER 01195

REGISTER 16252  
Manufactured by Yarway Corporation, Norrisstown, Narcissa Rds., Billie, Pa., 19422  
(Name and Address of N Certificate Holder)  
Manufactured for Penna. Power & Light Co., Two N. 9th St., Allentown, PA 18101  
(Name and Address of Purchaser or Owner)  
Location of Installation Susquehanna SES, Berwick, PA 18603  
(Name and Address)  
Pump or Valve Valve Nominal Inlet Size \_\_\_\_\_ (Inch) Outlet Size \_\_\_\_\_ (Inch)  
(a) Model No. 5615B-SA105 (b) N Certificate Holder's Serial No. C2760 (c) Canadian Registration No. \_\_\_\_\_ (d) Drawing No. 111082/None (e) Class 1 (f) Bd. No. \_\_\_\_\_ (g) Year of Type \_\_\_\_\_ (h) Built \_\_\_\_\_

through	C2783				

Nuclear Service Globe Valves

(Brief description of service for which equipment was designed)

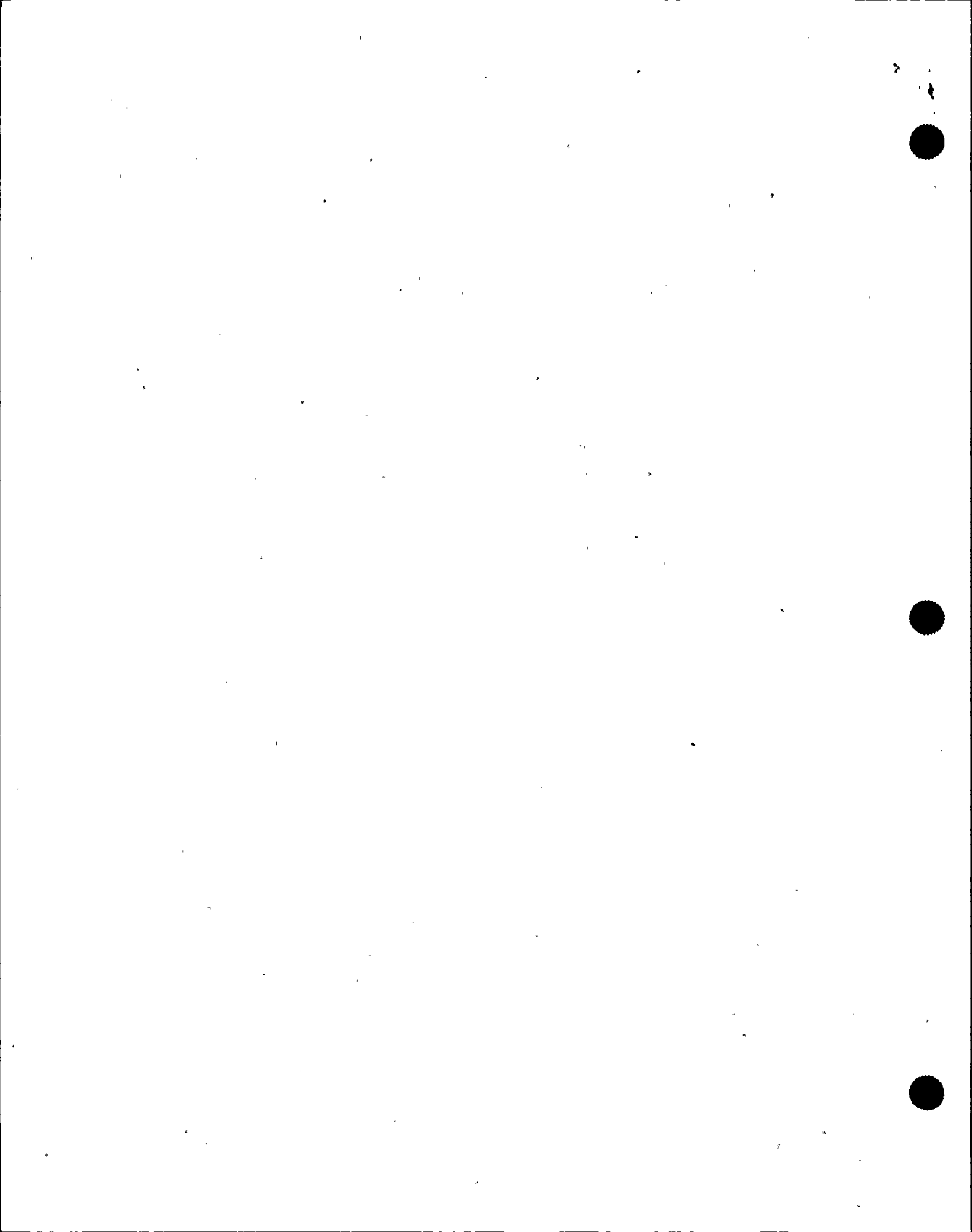
DESIGN CONDITIONS  
Design Conditions: Pressure 3600 psi, Temperature \_\_\_\_\_ °F, or Valve Pressure Class 1500  
Cold Working Pressure 3600 psi  
Pressure Retaining Parts \_\_\_\_\_

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings G90	AMS 5385E	Southern Tool, Inc.	DISC
(b) Forgings E87	ASME SA105	Endicott Forging & Body	

SHOP INSPECTION  
ENDICOTT FORGING & BODY

Instructions: This form is to be filled out by the manufacturer of manually operated valves only. It is not to be filled out for valves which are operated automatically. The form is to be filled out on the drawing and a copy of the drawing and this form should be attached to the certificate of inspection. The form is to be filled out on the drawing and a copy of the drawing and this form should be attached to the certificate of inspection.

ASME-10-1-80  
10-1-80



Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A	ASME SA182 Gr. F6a	Atlas Steels	Backseat Bushing
	Class 2		
(d) Other Parts			
4345	ASME SA182 Gr. F6a	Atlas Steels	Backseat Bushing
	Class 2		

Hydrostatic test: 5400 psi. Disk Differential test pressure: 3960 psi.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974.

Addenda H1974, Code Case No. \_\_\_\_\_, Date 2/28/92

Signed Yarway Corporation by F. W. Peszka

Our ASME Certificate of Authorization No. N2449 to use the N symbol expires 11/14/92

**CERTIFICATION OF DESIGN**

Design information on file at Pennsylvania Power & Light Company

Stress analysis report (Class 1 only) on file at Pennsylvania Power & Light Company

Design specifications certified by (1) John R. Schmiedel, Richard O. Schlueter, Sidney A. Coplan

PE State PA, PA, PA Reg. No. 19370E, 26382E, 19877E

Stress analysis certified by (1) George J. Paptzun

PE State PA Reg. No. PE-034809-E

(1) Signature not required. List name only.

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance of Norwood, MA have inspected the pump or valve described in this Data Report on FEB 28 19 92, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump or valve in accordance with the ASME Code, Section III.

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

F. W. Peszka (Signature)  
 Commission No. 1982001A

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

As required by the Provision of the ASME Code Rules, Section III, Div. I

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701  
(Name and address of NPT Certificate Holder)
- (b) Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101 - 1179  
(Name and address of N Certificate Holder for completed nuclear component)
2. Identification-Certificate Holder's Serial No. of Part S/N 4 Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. C23507 Drawing Prepared by Anchor/Darling Valve Company
- (b) Description of Part Inspected DISC HEAT # B305 SALOS # SA105
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda date W'72, Case No. -- Class 2
3. Remarks: 4"-900# Globe  
(Brief description of service for which component was designed)  
A/DV Shop Order P933C-4  
Reference Disc Assembly Drawing #B65666  
No Disc Hydro Performed

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

Date 4/17 1997 Signed Anchor/Darling Valve Co. By R S Stammitt  
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/98 Certificate of Authorization No. N1713

**CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)**

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 12-10-96 thru 4-18-97 1997, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 4-18 1997

Charles Young Inspector's Signature Commissions Pennsylvania 2392  
National Board, State, Province and No.

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

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/13/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           1           of           1            
Address  
 2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name WA#S64321 CODE FORM# 96-151-001  
                    PO Box 467, Berwick, PA 18603                     Repar Organization P.O. No., Job No., etc.  
Address  
 3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Core Spray, 151A, Class 1                      
 5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
Core Spray Injection Line	Bechtel	N/A	N/A	DCA-107-1	1982	REPAIRED	NO

7. Description of Work                     Grind/Flap Linear Indications                      
 8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  None Required  
 Other  Pressure           N/A           psi Test Temp.           N/A           °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 28, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period SEPT 23 1996 to SEPT. 23 1996, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG 28 1998



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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     8/26/98                      
Sheet           1           of           1          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                      
WA #           P72421           Code Form No. 97-151-001  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

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

4. Identification of System                     Core Spray, System 151A, Class 2                    

5. (a) Applicable Construction Code           ASME sec. III           19           86           Edition,                      Addenda,           No           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
Relief Valve	Anderson/Green Wood	N26880	N/A	PSV152F032B	1992	REPLACED	YES
Relief Valve	Anderson/Green Wood	N200057	2268	PSV152F032B	1993	REPLACEMENT	YES

7. Description of Work                     Replaced Existing Relief Valve with New Identical Valve.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  NON VT-2 per MI-PS-008  
Other  Pressure           N/A           psi Test Temp.           N/A           °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 28, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period OCT. 24 1997 to OCT. 24 1997, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 28 1998

FORM NV-1 CERTIFICATE HOLDERS' DATA REPORT FOR PRESSURE OR VACUUM RELIEF VALVES\* As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

- 1. Manufactured and certified by ANDERSON, GREENWOOD & CO., 3950 GREENBRAIR, STAFFORD, TX 77479
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO., TWO NORTH 9th STREET, ALLENTOWN, PA 18101
3. Location of installation SUSQUEHANNA POWER STATION, 5 MI NORTHEAST OF BERWICK ON US RT 11, BERWICK, PA 18603
4. Valve 81PFS808A16ALG-N2, Orifice size 3", Nom. inlet size 1", Outlet size 2"
5. ASME Code, Section III, Division 1: 1986 NONE 2 NA
6. Type SPRING 100 FIXED 60 DEG F. 425 at AMBIENT
7. Identification N200057 NA N06-1701 R/B 2268 1993
8. Control ring settings NA CB0M N06-1701-005 R/B/C
9. Pressure retaining items:

Handwritten notes: 2/11/94, 2.14.94

Table with 4 columns: Part Name, Serial No. or Identification, Mat'l. Sp'c., Including Type or Grade, Tensile Strength. Rows include Body, Bonnet or Yoke, Support Rods, Nozzle, Disk, Spring Washers, Adjusting Screws, Spindle, Spring, Bolting, Other Items.

10. Relieving capacity 56 GPM (steam or fluid, lb/hr) @ 10% (psi) overpressure as certified by the National Board 1/22/91 (date)

11. Remarks:

CERTIFICATION OF DESIGN
Design Specification certified by DONALD H. PAPA, P.E. State TEXAS, Reg. no. 35992
Design Report certified by NA, P.E. State NA, Reg. no. NA

CERTIFICATE OF COMPLIANCE
We certify that the statements made in this report are correct and that this valve conforms to the rules for construction of the ASME Code, Section III, Division 1.
NV Certificate of Authorization No. N-2825 Expires 9-10-96
12-1-93 Name ANDERSON, GREENWOOD & CO. Signed Joseph A. Parks

\*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial No. N200057

CERTIFICATE OF INSPECTION

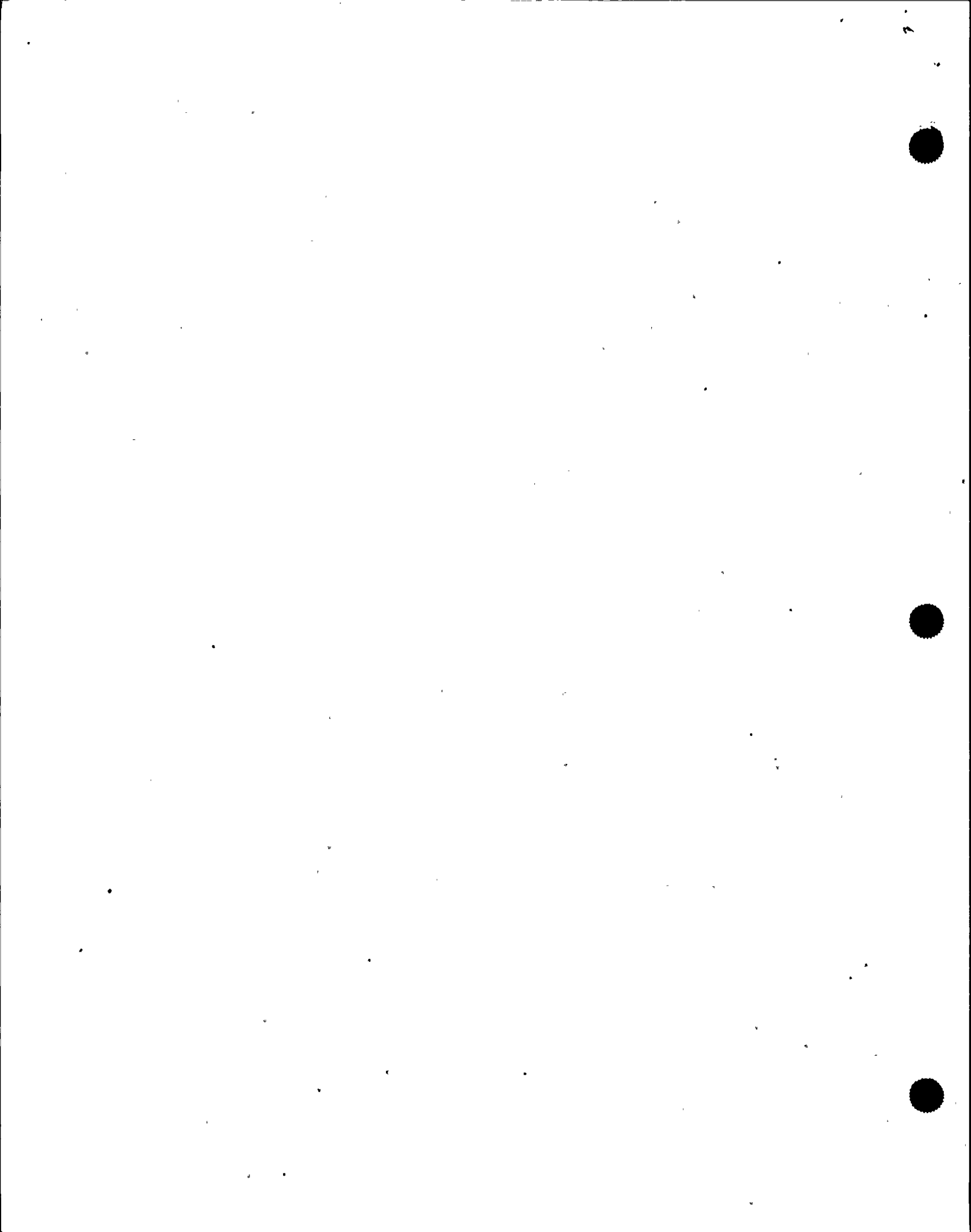
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Prov. of TEXAS and employed by C. U. I. C. of BOSTON, MA

have inspected the valve described in this Data Report on 12-1-93, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this valve in accordance with the ASME Code, Section III, Division 1.

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

Date 12-1-93 Signed [Signature] (Authorized Inspector)

Commissions NB 7582 N (Natl. Bd. Incl. endorsements and state or prov. and no 1)



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/25/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     2                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     WA #                     See Sheet 2 of 2                      
Address Repar Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     HPCI Water Loops System, 152A, Class 2                    

5. (a) Applicable Construction Code                     See Block 9                     19                      Edition,                      Addenda,                      Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89, no adden.                    

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)
1) Pressure Relief Valve	JE Lonergan	510138-1-1	N/A	PSV 156F020	1979	REPAIRED	YES
2) Stem/Disc Assembly	YARWAY	VALVE S/N 5350	N/A	156018	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	AV94-A5	N/A	156018	1997	REPLACEMENT	YES
3) Backseat Bushing	YARWAY	VALVE S/N 5350	N/A	156018	1976	REPLACED	NO
Backseat Bushing	YARWAY	HT. No. 5293	N/A	156018	1996	REPLACEMENT	NO

7. Description of Work                     Repaired Machine Nicks on Seat/Replace Parts with Equivalent                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 2 of 2  
 Other  Pressure                     N/A                     psi Test Temp.                     N/A                     °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ARE ATTACHED.

Applicable Manufacturer's Data Reports to be attached

ORIGINAL CONSTRUCTION CODE FOR YARWAY VALVE IS ASME III 1974 W74 ADDENDA. NO CODE CASES. CONSTRUCTION CODE FOR YARWAY PARTS IS ASME III 1986 ED. CONSTRUCTION CODE FOR J.E. LONERGRAN VALVE IS ASME III 1974 W74 ADDENDA; CODE CASES 1555 and N-242.

**CERTIFICATION OF COMPLIANCE**

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Aug 28, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

**CERTIFICATION OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period JUNE 19 1996 to JUNE 20 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 28 1998





SHOP ORDER 13258

CORRECTED COPY July 10/21/97  
July 10/21/97

STER(S) 01040

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

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

Pg. 1 of 1

- Manufactured and certified by YARWAY CORPORATION\*, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760  
\* A SUBSIDIARY OF KEYSTONE INTERNATIONAL, INC. (name and address of NPT Certificate Holder)
- Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24506  
(name and address of purchaser)
- Location of installation STOCK  
(name and address)
- Type 969155-06 AMS5385E (disc) 52,000 PSI MIN. N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRM) (year built)
- ASME Code, Section III: 1986 NONE 1 July 10/21/97  
(edition) (addenda date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —  
(no.)
- Remarks: FABRICATED IN ACCORDANCE WITH CONSTRUCTION DATA 969005 REV. A, PRESSURE RETAINING PARTS FOR  
YARWAY SERIES 5500 GLOBE VALVE. THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR RECONCILING THIS  
CONSTRUCTION DATA WITH THE DESIGN SPECIFICATION FOR THE FACILITY USING THE PARTS.
- Nom. thickness (in.) — Min. design thickness (in.) — Dia. ID (ft. & in.) — Length overall (ft. & in.) —
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) AV94-A1	—	(26)	
(2) AV94-A2	—	(27)	
(3) AV94-A3	—	(28)	
(4) AV94-A4	—	(29)	
(5) AV94-A5	—	(30)	
(6) AV94-A6	—	(31)	
(7) AV94-A7	—	(32)	
(8) AV94-A8	—	(33)	
(9) AV94-A9	—	(34)	
(10) AV94-A10	—	(35)	
(11) AV94-A11	—	(36)	
(12) AV94-A12	—	(37)	
(13) AV94-A13	—	(38)	
(14) AV94-A14	—	(39)	
(15) AV94-A15	—	(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

FTI  
OP SUP  
CBR

10. Design pressure — psi. Temp. — °F Hydro. test pressure N/A at temp. °F  
\*\*FOR ANSI CLASS 1500 VALVES (when applicable)

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

(12/86)

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

CERTIFICATION OF DESIGN

Design specifications certified by (SEE REMARKS) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)  
Design report\* certified by N/A P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) STEM AND DISC ASSEMBLIES, 1 INCH  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires NOVEMBER 14, 1998  
Date 10/24/97 Name YARWAY CORPORATION Signed [Signature]  
(NPT Certificate Holder) (authorized representative)  
F. W. PESZKA

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of  
PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY  
of NORWOOD, MA have inspected these items described in this Data Report on 10/24/97  
and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the  
ASME Code, Section III. Each part listed has been authorized for stamping on the data shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in  
this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

\*FACTORY MUTUAL ENGINEERING ASSOCIATION

10/24/97 Signed [Signature] Commissions NB9541"N", PA2389  
10/28/97 (Authorized Inspector) (Natl. Bd. [incl. endorsements] state or prov. and no.)  
NB 11207 "N" PA 2607



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/22/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     3                      
Address  
2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     See Sheet 3 of 3  
Address Repar Organization P.O. No., Job No., etc.  
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     HPCI Turbine and Auxiliary, 152B, Class 2                      
5. (a) Applicable Construction Code                     ASME sec. III                     19                     71                     Edition,                     thru W72                     Addenda,                     No                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89, no adden.                      
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)
1) Rupture Disk (Double)	BS&B	None	N/A	PSE 1D003/1D004	1984	REPLACED	YES
Rupture Disk (Double)	BS&B	Lot No. 84090025-1	N/A	PSE 1D003/1D004	1984	REPLACEMENT	YES
2) Stem/Disc Assembly	YARWAY	VALVE S/N A0469	N/A	LSH155N014-R5	1977	REPLACED	YES
Stem/Disc Assembly	YARWAY	90-1-2W1-B29	N/A	LSH155N014-R5	1992	REPLACEMENT	YES
3) Stem Disc Assembly	MASONIELAN	VALVE S/N N00154-5-1	N/A	HV155F028	1976	REPLACED	YES
Stem/Disc Assembly	MASONIELAN	1810-1-1039-21	N/A	HV155F028	1997	REPLACEMENT	YES

7. Description of Work                     Replaced Components with Equivalent Components/Repaired Hanger                      
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 3 of 3  
Other  Pressure                      psi Test Temp.                      °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CODE OF CONSTRUCTION FOR BS&B IS ASME SEC. III, 1971 ED. S'73 ADDENDA. REPLACEMENT

CODE FOR YARWAY PARTS IS ASME SEC. III, 1986 ED. NO ADDENDA. ORIGINAL CONSTRUCTION

CODE FOR YARWAY VALVE IS ASME SEC. III, 1974 ED. INCLUDING W74 ADDENDA..

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Sept. 10, 1998  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period OCT. 30, 1998 to DEC. 10, 1997, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature      National Board, State, Province, and Endorsements  
Date SEPT 11 1998

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

1. Owner Pennsylvania Power & Light Co. Date 8/22/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 3  
Address  
 2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 3 of 3  
Address Repair Organization P.O. No., Job No., etc.  
 3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System HPCI Turbine and Auxillary, 152B, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, See Sht 3 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4) Stem/Disc Assembly	YARWAY	VALVE S/N A1084	N/A	HV156F059	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	.91-11-1C-A5	N/A	HV156F059	1992	REPLACEMENT	YES
5) Backseat Bushing	YARWAY	VALVE S/N A1084	N/A	HV156F059	1976	REPLACED	NO
Backseat Bushing	YARWAY	5778A13	N/A	HV156F059	1992	REPLACEMENT	NO
6) Stem/Disc Assembly	YARWAY	VALVE S/N A7538	N/A	2RV-LSH-1N014	1979	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-E16	N/A	2RV-LSH-1N014	1997	REPLACEMENT	YES
7) Backseat Bushing	YARWAY	VALVE S/N A7538	N/A	2RV-LSH-1N014	1979	REPLACED	NO
Backseat Bushing	YARWAY	HT No. 5293	N/A	2RV-LSH-1N014	1984	REPLACEMENT	NO
8) Pipe Support	BECHTEL	N/A	N/A	SP-DBB-114-H2006	1982	REPAIRED	NO









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

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

Pg. 1 of 1

1. Manufactured and certified by Yarway Corporation, 480 Norristown Rd., Blue Bell, PA 19422  
(Name and address of NPT Certificate Holder)
2. Manufactured for B & W Nuclear Services, SPIS, Lynchburg, VA 24506  
(Name and address of purchaser)
3. Location of installation Stock  
(Name and address)
4. Type 969155-06 AMS5385E (disc) 52,000 PSI Min. N/A 1992  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRNI) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ----- Revision ----- Date -----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.
8. Nom. thickness (in.) ----- Min. design thickness (in.) ----- Dia. ID (ft & in.) ----- Length overall (ft & in.) -----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

7 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 90-1-2W1-B1	- - - -
(2) 90-1-2W1-B2	- - - -
(3) 90-1-2W1-B3	- - - -
(4) 90-1-2W1-B4	- - - -
(5) 90-1-2W1-B5	- - - -
(6) 90-1-2W1-B6	- - - -
(7) 90-1-2W1-B7	- - - -
(8) 90-1-2W1-B8	- - - -
(9) 90-1-2W1-B9	- - - -
(10) 90-1-2W1-B10	- - - -
(11) 90-1-2W1-B11	- - - -
(12) 90-1-2W1-B12	- - - -
(13) 90-1-2W1-B13	- - - -
(14) 90-1-2W1-B14	- - - -
(15) 90-1-2W1-B15	- - - -
(16) 90-1-2W1-B16	- - - -
(17) 90-1-2W1-B17	<u>(N/A)</u> - - - -
(18) 90-1-2W1-B18	- - - -
(19) 90-1-2W1-B19	- - - -
(20) 90-1-2W1-B20	- - - -
(21) 90-1-2W1-B21	- - - -
(22) 90-1-2W1-B22	- - - -
(23) 90-1-2W1-B23	- - - -
(24) 90-1-2W1-B24	- - - -
(25) 90-1-2W1-B25	- - - -

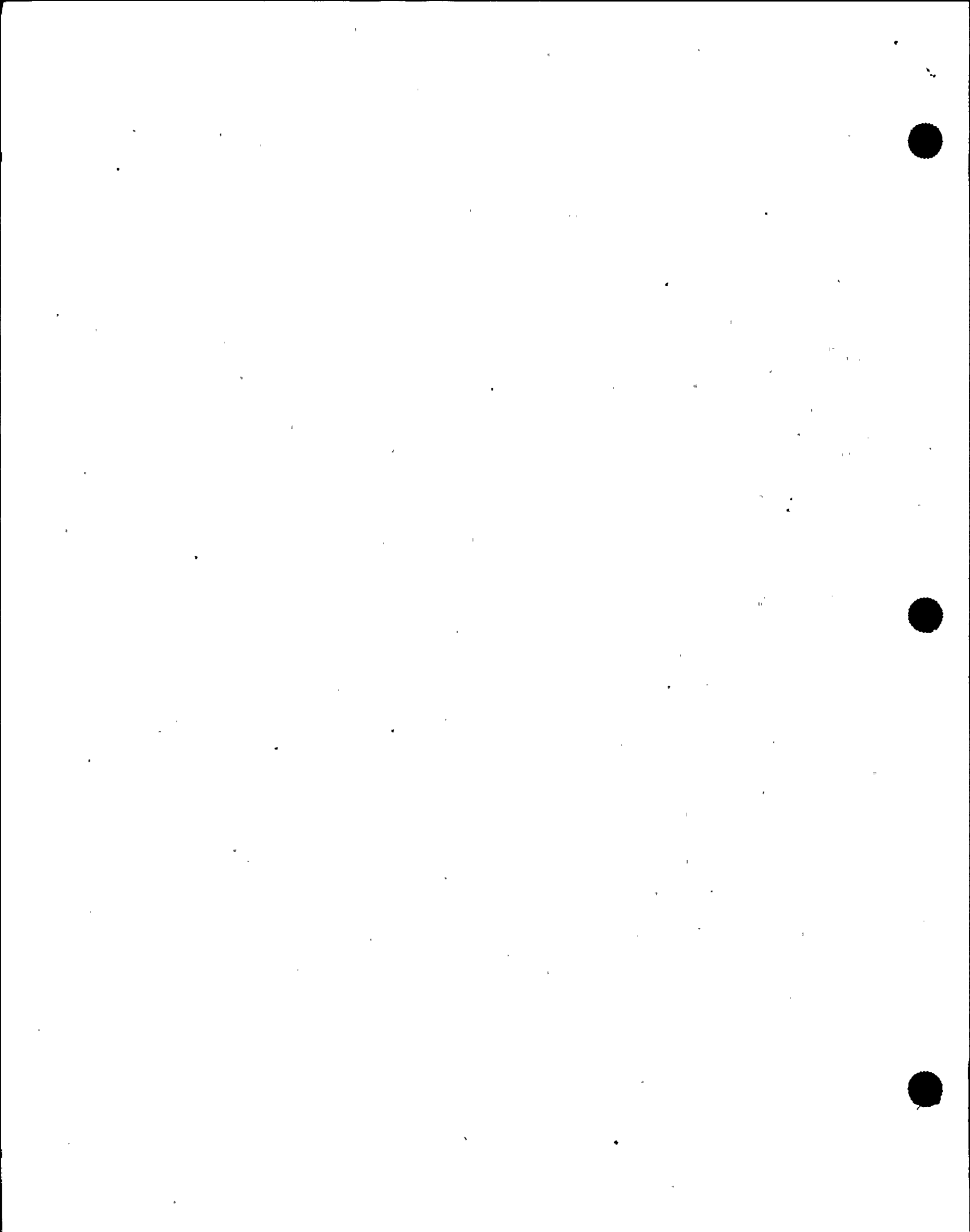
Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26) 90-1-2W1-B26	- - - -
(27) 90-1-2W1-B27	- - - -
(28) 90-1-2W1-B28	- - - -
(29) 90-1-2W1-B29	- - - -
(30) 90-1-2W1-B30	- - - -
(31) 90-1-2W1-B31	- - - -
(32) 90-1-2W1-B32	- - - -
(33) 90-1-2W1-B33	- - - -
(34) 90-1-2W1-B34	- - - -
(35) 90-1-2W1-B35	- - - -
(36) 90-1-2W1-B36	- - - -
(37) 90-1-2W1-B37	- - - -
(38) 90-1-2W1-B38	- - - -
(39) 90-1-2W1-B39	- - - -
(40) 90-1-2W1-B40	- - - -
(41) 90-1-2W1-B41	- - - -
(42) 90-1-2W1-B42	- - - -
(43) 90-1-2W1-B43	- - - -
(44) 90-1-2W1-B44	- - - -
(45) 90-1-2W1-B45	- - - -
(46) 90-1-2W1-B46	- - - -
(47) 90-1-2W1-B47	- - - -
(48) 90-1-2W1-B48	- - - -
(49) 90-1-2W1-B49	- - - -
(50) 90-1-2W1-B50	- - - -

Design pressure \* \_\_\_\_\_ psi. Temp. \* \_\_\_\_\_ °F. Hydro. test pressure N/A at temp. °F  
(when applicable)

\* For ANSI Class 1500 Valves

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

7 / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25



CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1" conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1995

Date 21 Dec 92 Name Yarway Corporation Signed F. W. Peszka  
(NPT Certificate Holder) (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

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

of Norwood, MA have inspected these items described in this Data Report on 12-21-92, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

\* Factory Mutual System

Date 12-21-92 Signed M. S. Bennett Commissions Pa 2056 NIBSIS  
(Authorized Inspector) (Nat'l. Bd. Incl. endorsements) state or prov. and no. 1

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

N302154-1

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

Pg. 1 of 2

1. Manufactured and certified by Masoneilan Dresser Industries, 85 Rodwell St., Avon, MA 02322  
(name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light, Susquehanna, Berwick, PA 18603  
(name and address of Purchaser)
3. Location of installation Pennsylvania Power & Light, 5 miles NE of Berwick on US Rte 11, Berwick, PA 18603  
(name and address)
4. Type: P9286 Rev. C Haynes Stellite 6B 144,467 PSI N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 Winter 1972 2 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Masoneilan Part N<sup>o</sup> 013431-122-1J7 1"  
Qty. (1)  
Replacement for S/N N-00154-1 thru -6
8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number Heat Number	National Board No. in Numerical Order
(1) 1810-1-1039-21	
(2)	
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Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
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Design pressure 1365 psi. Temp. 565 °F. Hydro. test pressure N/A at temp. °F  
(when applicable)

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

(12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

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Certificate Holder's Serial Nos. N302154-1 through     

**CERTIFICATION OF DESIGN**

Design specifications certified by Robert E. Rogers P.E. State CA Reg. no. M8057  
(when applicable)

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

**CERTIFICATE OF COMPLIANCE**

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

NPT Certificate of Authorization No. N-1837 Expires August 19, 1998

Date 6/27/97 Name Masonellan-Dresser Industries Signed *William J. Conner*  
(NPT Certificate Holder) (Authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MA and employed by H.S.B.I. & I, Co.

of Hartford, CT have inspected these items described in this Data Report on JUNE 27, 1997, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 6/27/97 Signed *William W. Will* Commissions MA-1337  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

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

Pg. 1 of 1

1. Manufactured and certified by Yarway Corporation, 480 Norristown Rd., Blue Bell, PA 19422  
(name and address of NPT Certificate Holder)
2. Manufactured for B & W Nuclear Services, SPIS, Lynchburg, VA 24506  
(name and address of purchaser)
3. Location of installation Stock  
(name and address)
4. Type 969155-08 AMS5385E (disc) 52,000 PSI Min. N/A 1992  
(drawing no.) (mat'l. spec. no.) (nominal strength) (CRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.
8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 91-11-1C-A1	----
(2) 91-11-1C-A2	----
(3) 91-11-1C-A3	----
(4) 91-11-1C-A4	----
(5) 91-11-1C-A5	----
(6) 91-11-1C-A6	----
(7)	
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Part or Appurtenance Serial Number	National Board Number In Numerical Order
(26)	
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(29)	
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10. Design pressure \* \_\_\_\_\_ psi. Temp. \* \_\_\_\_\_ °F. Hydro. test pressure N/A at temp. \* \_\_\_\_\_  
(when applicable)

\* For ANSI Class 1500 Valves

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

PAGE 6 OF 17

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 2" conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1995

Date 21 DEC 92 Name Yarway Corporation Signed F. W. Peszka  
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

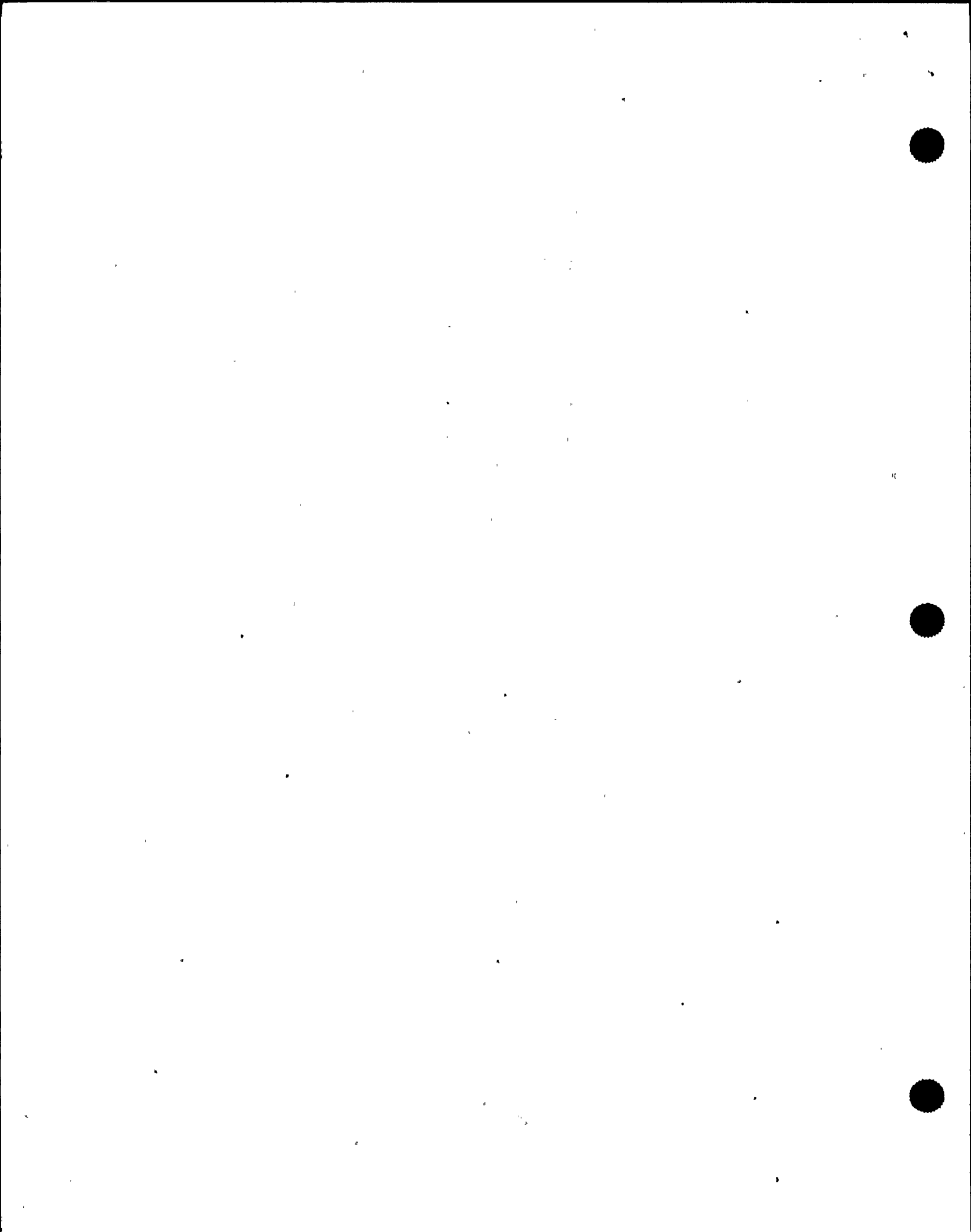
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Company\* of NORWOOD, MA have inspected these items described in this Data Report on 12-21-92, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

\* Factory Mutual System

Date 12-21-92 Signed M S [Signature] Commissions PA 2056 NISBIS  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

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

Pg. 1 of 1

1. Manufactured and certified by YARWAY CORPORATION, \* 480 Norristown Road, Blue Bell, PA 19422-0760  
(name and address of NPT Certificate Holder)
2. Manufactured for Framatome Technologies, Lynchburg, VA 24506  
(name and address of purchaser)
3. Location of installation Stock  
(name and address)
4. Type 969155-06 AMS5385E (disc) 52,000 Min. N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.  
\* A Subsidiary of Keystone International, Inc.
8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 91-11-1G-E1	- - - -
(2) 91-11-1G-E2	- - - -
(3) 91-11-1G-E3	- - - -
(4) 91-11-1G-E4	- - - -
(5) 91-11-1G-E5	- - - -
(6) 91-11-1G-E6	- - - -
(7) 91-11-1G-E7	- - - -
(8) 91-11-1G-E8	- - - -
(9) 91-11-1G-E9	- - - -
(10) 91-11-1G-E10	- - - -
(11) 91-11-1G-E11	- - - -
(12) 91-11-1G-E12	- - - -
(13) 91-11-1G-E13	- - - -
(14) 91-11-1G-E14	- - - -
(15) 91-11-1G-E15	- - - -
(16) 91-11-1G-E16	- - - -
(17) 91-11-1G-E17	- - - -
(18) 91-11-1G-E18	- - - -
(19) 91-11-1G-E19	- - - -
(20) 91-11-1G-E20	- - - -
(21) 91-11-1G-E21	- - - -
(22) 91-11-1G-E22	- - - -
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	
(27)	
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Design pressure \*      psi. Temp. \*      °F. Hydro. test pressure N/A at temp. °F  
(when applicable)

For ANSI Class 1500 Valves

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

(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1 inch  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1998

Date 05/30/97 Name YARWAY CORPORATION Signed [Signature]  
(NPT Certificate Holder) (authorized representative)  
F. W. Peszka

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY \*

of Norwood, MA have inspected these items described in this Data Report on 05/30/97, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
III. Each part listed has been authorized for stamping on the date shown above.

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

Date 05/30/97 Signed [Signature] Commissions NR9541'N' PA2389  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)



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

1. Owner Pennsylvania Power & Light Co. Date 8/26/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 WA # S82281 Code Form 98-153-001  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System SLC Standby Liquid Control System, 153A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
Hanger Rod	BECHTEL	N/A	N/A	SP DCA 106 H2006	1982	REPLACED	NO
Hanger Rod	PP&L	HT No. 8866807	N/A	SP DCA 106 H2006	1997	REPLACEMENT	NO

7. Description of Work Replaced existing hanger rod with equivalent.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  Not Required.  
 Other  Pressure N/A psi Test Temp. N/A °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 27, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION.

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period MAY 16 1998 to MAY 22 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date Aug 27 1998

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

1. Owner           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           8/28/98          

Sheet           1           of           3          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           One          

          See Sheet 3 of 3            
Repair Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Type Code Symbol           N/A          

Authorization No.           N/A          

Expiration Date           N/A          

4. Identification of System           Standby Liquid Control, 153A, Class 2          

5. (a) Applicable Construction Code           ASME P&V           19           68           Edition,           No           Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
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1) Squibb Valve Inlet Fitting	Conax	GE-0455EQ 4608	4608	148F004A	1995	REPLACED	YES
Squibb Valve Inlet Fitting	Conax	GE-515-EQ 5395	5395	148F004A	1997	REPLACEMENT	YES
2) Squib Valve Trigger Assembly	Conax	GE-0445EQ 4637	4637	148F004A	1995	REPLACED	YES
Squib Valve Trigger Assembly	Conax	GE-515-EQ 5420	5420	148F004A	1997	REPLACEMENT	YES
3) Squibb Valve Inlet Fitting	Conax	0455-069 4398	4398	148F004B	1994	REPLACED	YES
Squib Valve Inlet Fitting	Conax	GE-514-EQ 5394	5394	148F004B	1997	REPLACEMENT	YES

7. Description of Work           Replaced Squibb Valve with Equivalent Valve.          

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 3  
 Other  Pressure           1350           psi Test Temp.           79           °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CONSTRUCTION CODE FOR REPLACEMENT PARTS IS ASME SECTION III, 1977 EDITION,

SUMMER 1977 ADDENDA.

CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date Sept 1, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period JULY 22, 1997 to MAY 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 1BNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date SEPT 4 1998

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/28/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     2                     of                     3                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     See Sheet 3 of 3  
Address Repar Organization P.O. No., Job No., etc.

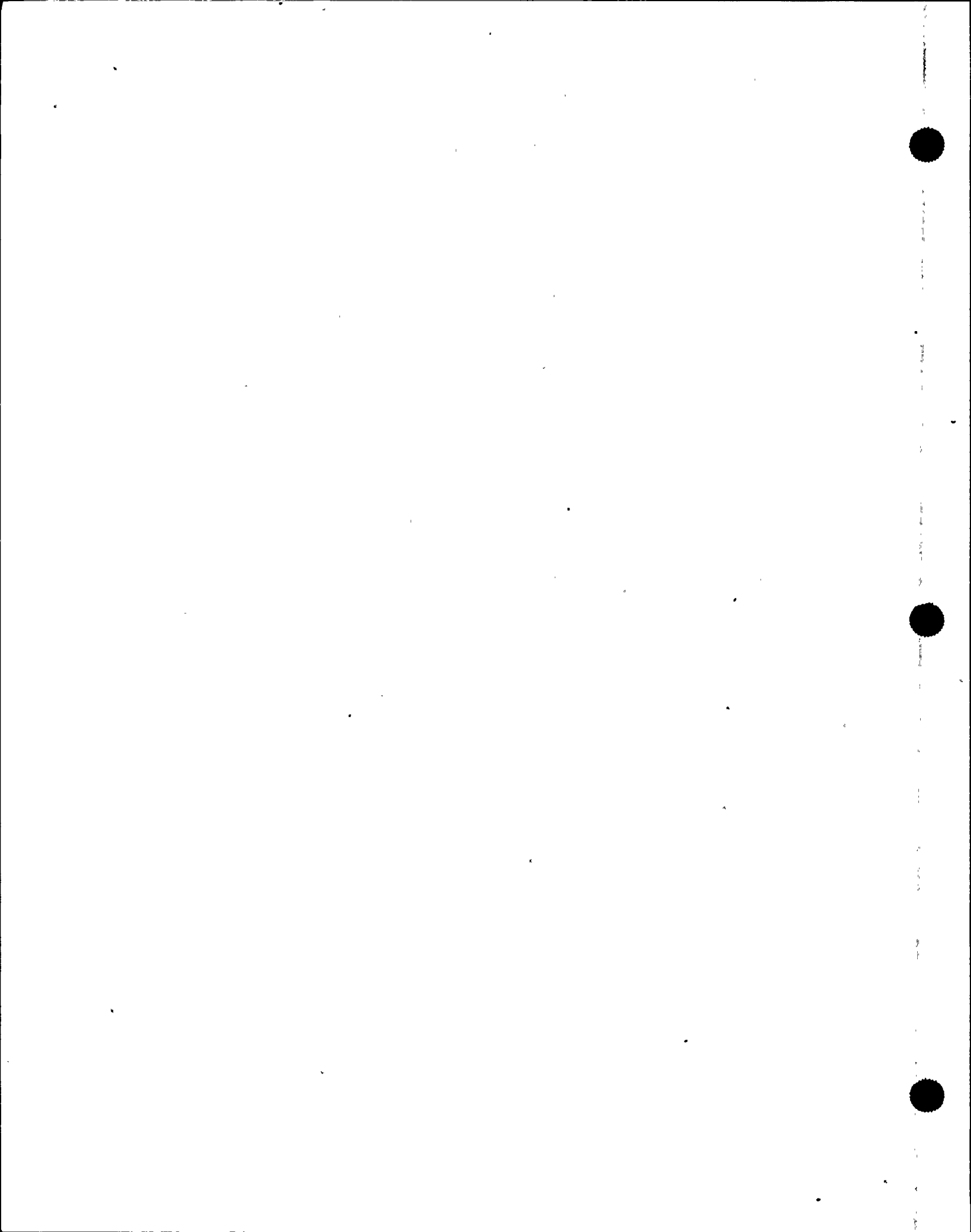
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Standby Liquid Control, 153A, Class 2                    

5. (a) Applicable Construction Code           ASME P&V           19           68           Edition,           No           Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

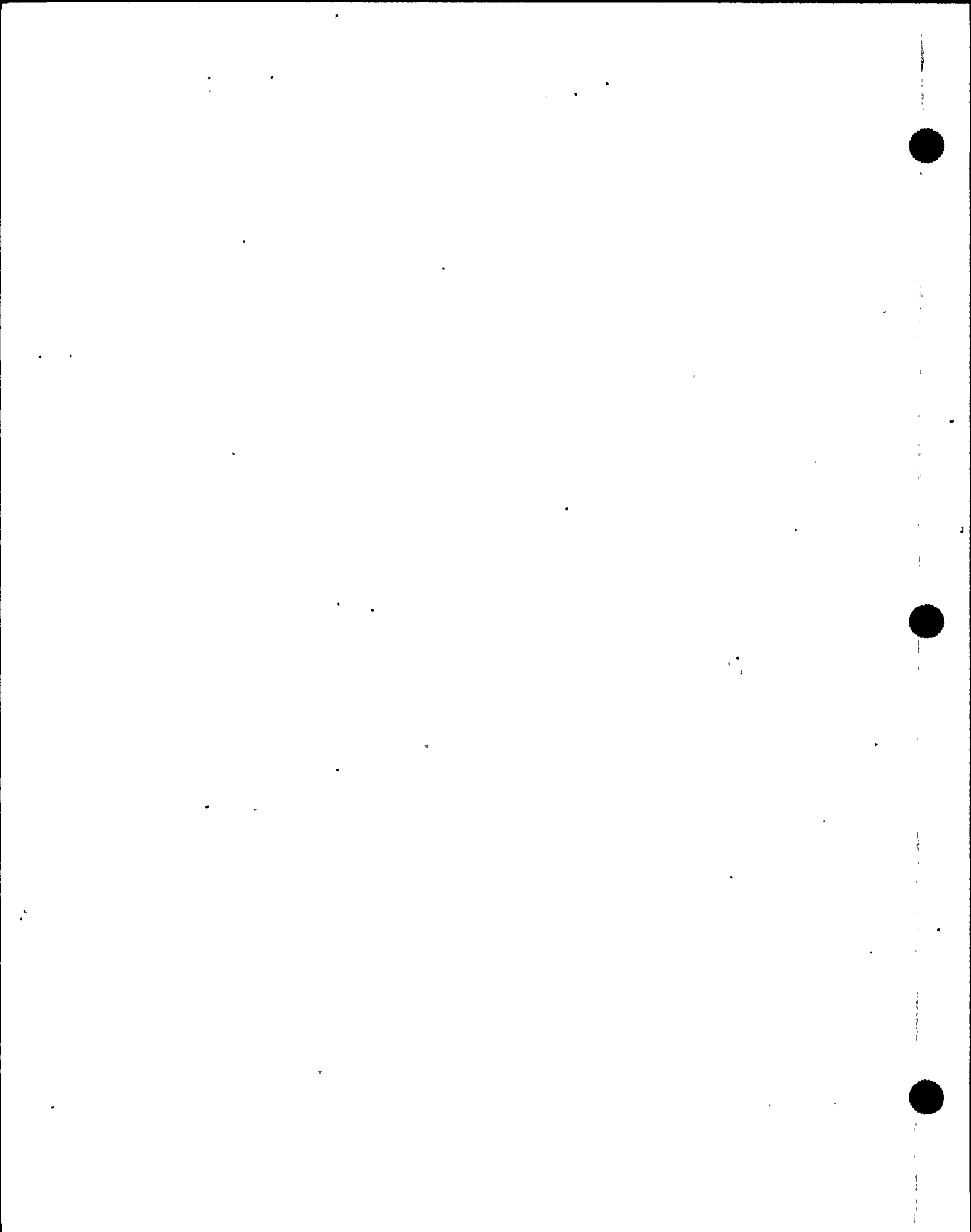
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4) Squib Valve Trigger Assembly	Conax	0455-069	N/A	148F004B	1994	REPLACED	YES
Squib Valve Trigger Assembly	Conax	GE-514-EQ 5419	5419	148F004B	1997	REPLACEMENT	YES









FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\* As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

1. Manufactured and certified by Conax Buffalo Corporation, 2300 Walden Avenue, Cheektowaga, NY 14225 (name and address of NPT Certificate Holder)

2. Manufactured for General Electric Company, 175 Curtner Avenue, San Jose, CA 95125 (name and address of Purchaser)

3. Location of installation Unknown (name and address)

4. Type: N20000, Rev. G SA479 304SST / 75 KSI N/A 1997 / (drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 77 / S77 / 1 N/A (edition) (addenda date) (class) (Code Case no.)

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

7. Remarks: Trigger Body Subassembly for explosive actuated valve replacement kit for standby liquid control system.

Para. NB-2121 (b) is applicable to ram. Press Fit/Seal on .328 & .4375 diameters. Overall subassembly length is 2.5".

Pressure Test at 2800 psi for 10 minutes.

8. Nom. thickness (in.) See Remarks Min. design thickness (in.) See Remarks Dia. ID (ft & in.) See Remarks Length overall (ft & in.) See Remarks

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 1-25.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 26-50.

10. Design pressure 1400 psi. Temp. 150 °F. Hydro. test pressure \* See Remarks at temp. °F (when applicable)

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

Handwritten signature and date: 12/28/97

Certificate Holder's Serial Nos. 5415 through 5439

**CERTIFICATION OF DESIGN**

Design specifications certified by George I. Skoda P.E. State CA Reg. no. 15847  
(when applicable)

Design report\* certified by Francis J. Domino P.E. State NY Reg. no. 36832  
(when applicable)

**CERTIFICATE OF COMPLIANCE**

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

NPT Certificate of Authorization No. N-1850 Expires September 2, 1998

Date 9/18/97 Name Conax Buffalo Corporation Signed Curt Pratt  
(NPT Certificate Holder) (authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Hartford Steam Boiler Inspection & Insurance Company of Hartford, CT have inspected these items described in this Data Report on SEPT 18, 1997, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 9-18-97 Signed [Signature] Commissions NB 10964AN NY 5057  
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

*Data Package  
 Reviewed & Accepted  
 A. J. Stolar 9/28/97*



FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES\* As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

Manufactured and certified by Conax Buffalo Corporation, 2300 Walden Avenue, Cheektowaga, NY 14225 (name and address of NPT Certificate Holder)

2. Manufactured for General Electric Company, 175 Curtner Avenue, San Jose, CA 95125 (name and address of Purchaser)

3. Location of installation Unknown (name and address)

4. Type: N38017, Rev. F SA479 304SST / 75 KSI N/A 1997 / (drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 77 / S77 / 1 N/A (edition) (addenda date) (class) (Code Case no.)

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

7. Remarks: Inlet Fitting for explosive actuated valve replacement kit for standby liquid control system.

Pressure Test at 2800 psi for 10 minutes.

8. Nom. thickness (in.) .040 Min. design thickness (in.) .031 Dia. ID (ft & in.) .895" Length overall (ft & in.) 2.245"

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 1-25.

Table with 2 columns: Part or Appurtenance Serial Number, National Board No. in Numerical Order. Rows 26-50. Includes handwritten signature and date.

Design pressure 1400 psi. Temp. 150 °F. Hydro. test pressure \* See Remarks at temp. °F (when applicable)

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



3A

Certificate Holder's Serial Nos. 5390 through 5414

**CERTIFICATION OF DESIGN**

Design specifications certified by George I. Skoda P.E. State CA Reg. no. 15847  
(when applicable)

Design report\* certified by Francis J. Domino P.E. State NY Reg. no. 36832  
(when applicable)

**CERTIFICATE OF COMPLIANCE**

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

NPT Certificate of Authorization No. N-1850 Expires September 2, 1998

Date 9/18/97 Name Conax Buffalo Corporation Signed [Signature]  
(NPT Certificate Holder) (Authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
New York and employed by Hartford Steam Boiler Inspection & Insurance Company

of Hartford, CT have inspected these items described in this Data Report on SEPT. 18, 1997 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 9-18-97 Signed [Signature] Commissions NB 10964AN NY 5057  
(Authorized Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

*Data Package  
 Reviewed & Accepted  
 A. J. [Signature]  
 9/28/97*



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

1. Owner Pennsylvania Power & Light Co. Date 8/18/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 16  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Attached List  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Control Rod Hydraulics System 155B, class 2.

5. (a) Applicable Construction Code ASME Sec III 19 74 Edition, thru W75 Addenda, \*1644-8 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* '77 ED. W'77 NF2610)

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)
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1) PIPE SUPPORT	PP&L	N/A (NON-ASME)	N/A	147F102-3439	1995	REPLACED	NO
2) PIPE SUPPORT	PP&L	HT.NO 401P4481	N/A	147F102-3439	1998	REPLACEMENT	NO
3) GATE (DISC)	HENRY VOGT	773-193645 (VALVE)	N/A	147112 (HCU-2219)	1975	REPLACED	YES
4) GATE (DISC)	HENRY VOGT	HT.NO C262	N/A	147112 (HCU-2219)	1986	REPLACEMENT	YES
5) GATE (DISC)	HENRY VOGT	690-193645 (VALVE)	N/A	147112 (HCU-2251)	1975	REPLACED	YES
6) GATE (DISC)	HENRY VOGT	HT.NO C262	N/A	147112 (HCU-2251)	1986	REPLACEMENT	YES

7. Description of Work SEE ATTACHED LIST

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  SEE PAGE 13  
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED; CODE OF CONSTRUCTION: DRAGON VALVE PARTS:  
Applicable Manufacturer's Data Reports to be attached  
ASME III, '74W'75; VOGT VALVE ASME III (YEAR BUILT 1997): '71 W '72; (YEAR BUILT 1975) '71 S '73;  
PARTS ASME III (YEAR 1997) '89 NO ADD.(YEAR 1996) '71 W '71 ADD.(YEAR 1986) '71 S '71;  
GE ACCUMULATORS: ASME VIII, (YEAR1994) '92 ED. '92ADD.& (YEAR 1997)'95 ED. '96 ADD.

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 \_\_\_\_\_ N/A \_\_\_\_\_

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

Signed [Signature] Date Aug 18, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

**CERTIFICATION OF INSERVICE INSPECTION**

**CERTIFICATION OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period OCT. 26, 1995 to MAY 4, 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
 Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.  
 Commissions NB 7525 IBNA PA2159  
 National Board, State, Province, and Endorsements

Date Aug 24, 19 98

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/18/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     2                     of                     16                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                     SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Control Rod Hydraulics System 155B, class 2.                    

5. (a) Applicable Construction Code                     III                     19                     74                     Edition,                     thru W75                     Addenda,                     \* 1644-8                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                     (\* '77 ED. W'77 NF2610)

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)
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7) GATE (DISC)	HENRY VOGT	1185-193645 (VALVE)	N/A	147112 (HCU-2647)	1975	REPLACED	YES
8) GATE (DISC)	HENRY VOGT	HT.NO C262	N/A	147112 (HCU-2647)	1986	REPLACEMENT	YES
9) GATE (DISC)	HENRY VOGT	2234-181441 (VALVE)	N/A	147112 (HCU-4203)	1974	REPLACED	YES
10) GATE (DISC)	HENRY VOGT	HT.NO C262	N/A	147112 (HCU-4203)	1986	REPLACEMENT	YES
11) GATE (DISC)	HENRY VOGT	2102-181441 (VALVE)	N/A	147112 (HCU-3447)	1974	REPLACED	YES
12) GATE (DISC)	HENRY VOGT	HT.NO C262	N/A	147112 (HCU-3447)	1986	REPLACEMENT	YES
13) GATE (DISC)	HENRY VOGT	2363-181441 (VALVE)	N/A	147112 (HCU-3051)	1974	REPLACED	YES
14) GATE (DISC)	HENRY VOGT	HT.NO C262	N/A	147112 (HCU-3051)	1986	REPLACEMENT	YES
15) STEM/DISC	DRAGON	EM1721 (VALVE)	N/A	147F101-2251 (HCU-VNT VLV)	1977	REPLACED	YES
16) STEM/DISC	DRAGON	HT.NO 842109	N/A	147F101-2251 (HCU-VNT VLV)	1984	REPLACEMENT	NO
17) STEM/DISC	DRAGON	EM1618 (VALVE)	N/A	147F101-3055 (HCU-VNT VLV)	1977	REPLACED	YES

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

1. Owner Pennsylvania Power & Light Co. Date 8/18/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 3 of 16  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Control Rod Hydraulics System 155B, class 2.

5. (a) Applicable Construction Code III 19 74 Edition, thru W75 Addenda, \* 1644-8 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* '77 ED. W'77 NF2610)

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)
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18) STEM/DISC	DRAGON	HT.NO 842109	N/A	147F101-3055 (HCU-VNT VLV)	1984	REPLACEMENT	NO
19) STEM/DISC	DRAGON	EM1681 (VALVE)	N/A	147F101-3431 (HCU-VNT VLV)	1977	REPLACED	YES
20) STEM/DISC	DRAGON	HT.NO 842109	N/A	147F101-3431 (HCU-VNT VLV)	1984	REPLACEMENT	NO
21) STEM/DISC	DRAGON	EM1670 (VALVE)	N/A	147F101-3035 (HCU-VNT VLV)	1977	REPLACED	YES
22) STEM/DISC	DRAGON	HT.NO 842109	N/A	147F101-3035 (HCU-VNT VLV)	1984	REPLACEMENT	NO
23) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1238	N/A	HCU-1015	1975	REPLACED	YES
24) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	6143	N/A	HCU-1015	1994	REPLACEMENT	YES
25) GATE	HENRY VOGT	542-181441 (VALVE)	N/A	147101 (HCU-1831)	1974	REPLACED	YES
26) GATE	HENRY VOGT	HT.CODE WAS	N/A	147101 (HCU-1831)	1996	REPLACEMENT	YES
27) GATE	HENRY VOGT	973-181441 (VALVE)	N/A	147101-1439 (HCU-1439)	1974	REPLACED	YES
28) GATE	HENRY VOGT	HT.CODE WAS	N/A	147101-1439 (HCU-1439)	1996	REPLACEMENT	YES



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

1. Owner Pennsylvania Power & Light Co. Date 8/18/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 4 of 16  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Control Rod Hydraulics System 155B, class 2.

5. (a) Applicable Construction Code III 19 74 Edition, thru W75 Addenda, \* 1644-8 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* '77 ED. W77 NF2610)

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)
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29) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1258	N/A	HCU-5023	1975	REPLACED	YES
30) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	6163	N/A	HCU-5023	1994	REPLACEMENT	YES
31) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1335	N/A	HCU-1447	1975	REPLACED	YES
32) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	6149	N/A	HCU-1447	1994	REPLACEMENT	YES
33) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1232	N/A	HCU-2639	1975	REPLACED	YES
34) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7196	N/A	HCU-2639	1997	REPLACEMENT	YES
35) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1390	N/A	HCU-0223	1975	REPLACED	YES
36) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7211	N/A	HCU-0223	1997	REPLACEMENT	YES
37) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1336	N/A	HCU-1011	1975	REPLACED	YES
38) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7263	N/A	HCU-1011	1997	REPLACEMENT	YES
39) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1290	N/A	HCU-1807	1975	REPLACED	YES





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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/18/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           5           of           16            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                     SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Control Rod Hydraulics System 155B, class 2.                    

5. (a) Applicable Construction Code           III           19           74           Edition,           thru W75           Addenda,           \* 1644-8           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89           (\* '77 ED. W77 NF2610)

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)
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40) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7222	N/A	HCU-1807	1997	REPLACEMENT	YES
41) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1369	N/A	HCU-3055	1975	REPLACED	YES
42) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7225	N/A	HCU-3055	1997	REPLACEMENT	YES
43) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1273	N/A	HCU-3807	1975	REPLACED	YES
44) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7223	N/A	HCU-3807	1997	REPLACEMENT	YES
45) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1268	N/A	HCU-3859	1975	REPLACED	YES
46) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7224	N/A	HCU-3859	1997	REPLACEMENT	YES
47) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1427	N/A	HCU-4247	1975	REPLACED	YES
48) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7209	N/A	HCU-4247	1997	REPLACEMENT	YES
49) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1309	N/A	HCU-4627	1975	REPLACED	YES
50) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7243	N/A	HCU-4627	1997	REPLACEMENT	YES

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

1. Owner Pennsylvania Power & Light Co. Date 8/18/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 6 of 16  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

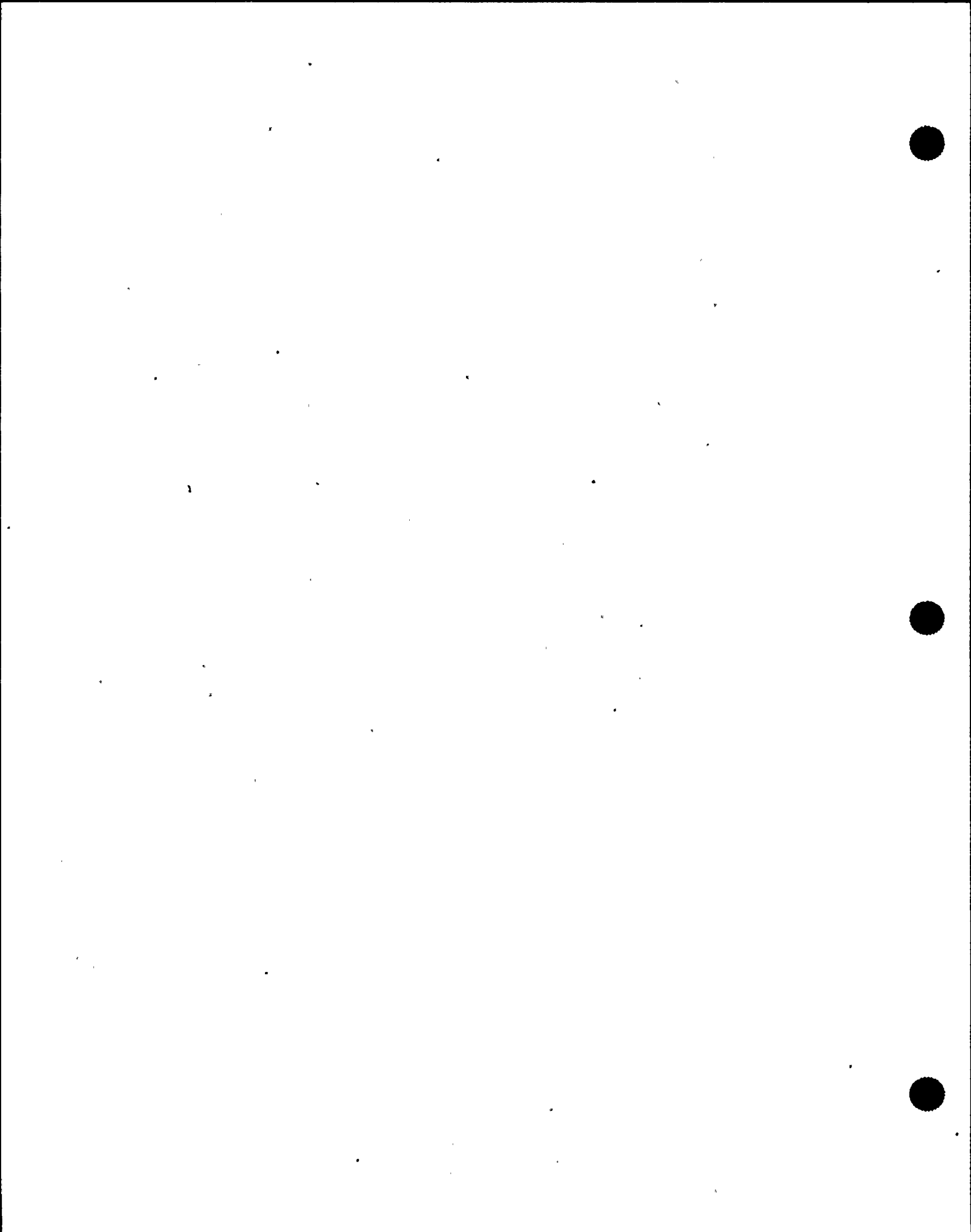
4. Identification of System Control Rod Hydraulics System 155B, class 2.

5. (a) Applicable Construction Code III 19 74 Edition, thru W75 Addenda, \* 1644-8 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* '77 ED. W'77 NF2610)

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)
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51) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1353	N/A	HCU-5051	1975	REPLACED	YES
52) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7241	N/A	HCU-5051	1997	REPLACEMENT	YES
53) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1145	N/A	HCU-5831	1975	REPLACED	YES
54) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7179	N/A	HCU-5831	1997	REPLACEMENT	YES
55) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1311	N/A	HCU-4219	1975	REPLACED	YES
56) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7213	N/A	HCU-4219	1997	REPLACEMENT	YES
57) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1236	N/A	HCU-1847	1975	REPLACED	YES
58) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7175	N/A	HCU-1847	1997	REPLACEMENT	YES
59) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	6163	N/A	HCU-5023	1994	REPLACED	YES
60) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1351	N/A	HCU-5023	1975	REPLACEMENT	YES
61) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1269	N/A	HCU-0639	1975	REPLACED	YES



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     8/18/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           7           of           16            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                     SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Control Rod Hydraulics System 155B, class 2.                    

5. (a) Applicable Construction Code           III           19   74   Edition,           thru W75           Addenda,           \* 1644-8           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19   89   (\* '77 ED. W'77 NF2610)

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)
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62) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1163	N/A	HCU-0639	1975	REPLACEMENT	YES
63) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	2010	N/A	HCU-2611	1975	REPLACED	YES
64) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1939	N/A	HCU-2611	1975	REPLACEMENT	YES
65) GATE (DISC)	HENRY VOGT	2309-181441 (VALVE)	N/A	147112 (HCU-0635)	1974	REPLACED	YES
66) GATE (DISC)	HENRY VOGT	HT.CODE "WAS"	N/A	147112 (HCU-0635)	1997	REPLACEMENT	YES
67) GATE (DISC)	HENRY VOGT	2518-181441 (VALVE)	N/A	147112 (HCU-0647)	1974	REPLACED	YES
68) GATE (DISC)	HENRY VOGT	HT. CODE "WAS"	N/A	147112 (HCU-0647)	1997	REPLACEMENT	YES
69) GATE (DISC)	HENRY VOGT	2026-181441 (VALVE)	N/A	147112 (HCU-1039)	1974	REPLACED	YES
70) GATE (DISC)	HENRY VOGT	HT. CODE "WAS"	N/A	147112 (HCU-1039)	1997	REPLACEMENT	YES
71) GATE (DISC)	HENRY VOGT	1977-181441 (VALVE)	N/A	147112 (HCU-2203)	1974	REPLACED	YES
72) GATE (DISC)	HENRY VOGT	HT. CODE "WAS"	N/A	147112 (HCU-2203)	1997	REPLACEMENT	YES

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

1. Owner <u>                    Pennsylvania Power &amp; Light Co.                    </u> <small style="margin-left: 100px;">Name</small> <u>                    Two North Ninth St., Allentown, PA 18101                    </u> <small style="margin-left: 100px;">Address</small>	Date <u>                    8/18/98                    </u> Sheet <u>                    8                    </u> of <u>                    16                    </u>
2. Plant <u>                    Susquehanna Steam Electric Station                    </u> <small style="margin-left: 100px;">Name</small> <u>                    PO Box 467, Berwick, PA 18603                    </u> <small style="margin-left: 100px;">Address</small>	Unit <u>                    ONE                    </u> SEE ATTACHED LIST <small style="margin-left: 100px;">Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>                    Pennsylvania Power &amp; Light Co.                    </u> <small style="margin-left: 100px;">Name</small> <u>                    Two North Ninth St., Allentown, PA 18101                    </u> <small style="margin-left: 100px;">Address</small>	Type Code Symbol Stamp <u>                    None                    </u> Authorization No. <u>                    N/A                    </u> Expiration Date <u>                    N/A                    </u>

4. Identification of System                     Control Rod Hydraulics System 155B, class 2.                    

5. (a) Applicable Construction Code                     III                     19                     74                     Edition, thru                     W75                     Addenda, \*                     1644-8                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                     (\* '77 ED. W'77 NF2610)

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)
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73) GATE (DISC)	HENRY VOGT	1906-181441 (VALVE)	N/A	147112 (HCU-2259)	1974	REPLACED	YES
74) GATE (DISC)	HENRY VOGT	HT. CODE "WAS"	N/A	147112 (HCU-2259)	1997	REPLACEMENT	YES
75) GATE (DISC)	HENRY VOGT	2418-181441 (VALVE)	N/A	147112 (HCU-2603)	1974	REPLACED	YES
76) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-2603)	1997	REPLACEMENT	YES
77) GATE (DISC)	HENRY VOGT	1274-193645 (VALVE)	N/A	147112 (HCU-2623)	1975	REPLACED	YES
78) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-2623)	1997	REPLACEMENT	YES
79) GATE (DISC)	HENRY VOGT	2242-181441 (VALVE)	N/A	147112 (HCU-2631)	1974	REPLACED	YES
80) GATE (DISC)	HENRY VOGT	HT. CODE "WAS"	N/A	147112 (HCU-2631)	1997	REPLACEMENT	YES
81) GATE (DISC)	HENRY VOGT	2598-181441 (VALVE)	N/A	147112 (HCU-3019)	1974	REPLACED	YES
82) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-3019)	1997	REPLACEMENT	YES
83) GATE (DISC)	HENRY VOGT	1137-193645 (VALVE)	N/A	147112 (HCU-3039)	1975	REPLACED	YES

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

1. Owner <u>                    Pennsylvania Power &amp; Light Co.                    </u> <small style="margin-left: 100px;">Name</small> <u>                    Two North Ninth St., Allentown, PA 18101                    </u> <small style="margin-left: 100px;">Address</small>	Date <u>                    8/18/98                    </u> Sheet <u>          9          </u> of <u>          16          </u>
2. Plant <u>                    Susquehanna Steam Electric Station                    </u> <small style="margin-left: 100px;">Name</small> <u>                    PO Box 467, Berwick, PA 18603                    </u> <small style="margin-left: 100px;">Address</small>	Unit <u>                    ONE                    </u> SEE ATTACHED LIST <small style="margin-left: 100px;">Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>                    Pennsylvania Power &amp; Light Co.                    </u> <small style="margin-left: 100px;">Name</small> <u>                    Two North Ninth St., Allentown, PA 18101                    </u> <small style="margin-left: 100px;">Address</small>	Type Code Symbol Stamp <u>                    None                    </u> Authorization No. <u>                    N/A                    </u> Expiration Date <u>                    N/A                    </u>

4. Identification of System                     Control Rod Hydraulics System 155B, class 2.                    

5. (a) Applicable Construction Code           III           19   74   Edition,            thru W75 Addenda,           \* 1644-8           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19   89              (\* '77 ED. W'77 NF2610)

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)
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84) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-3039)	1997	REPLACEMENT	YES
85) GATE (DISC)	HENRY VOGT	2527-181441 (VALVE)	N/A	147112 (HCU-3415)	1974	REPLACED	YES
86) GATE (DISC)	HENRY VOGT	HT. CODE "WAS"	N/A	147112 (HCU-3415)	1997	REPLACEMENT	YES
87) GATE (DISC)	HENRY VOGT	245-193645 (VALVE)	N/A	147112 (HCU-3423)	1975	REPLACED	YES
88) GATE (DISC)	HENRY VOGT	HT. CODE "WAS"	N/A	147112 (HCU-3423)	1997	REPLACEMENT	YES
89) GATE (DISC)	HENRY VOGT	1761-181441 (VALVE)	N/A	147112 (HCU-3807)	1974	REPLACED	YES
90) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-3807)	1997	REPLACEMENT	YES
91) GATE (DISC)	HENRY VOGT	1998-181441 (VALVE)	N/A	147112 (HCU-3835)	1974	REPLACED	YES
92) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-3835)	1997	REPLACEMENT	YES
93) GATE (DISC)	HENRY VOGT	1982-181441 (VALVE)	N/A	147112 (HCU-4219)	1974	REPLACED	YES
94) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4219)	1997	REPLACEMENT	YES

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

1. Owner	<u>                    Pennsylvania Power &amp; Light Co.                    </u> <small>Name</small>	Date	<u>                    8/18/98                    </u>
	<u>                    Two North Ninth St., Allentown, PA 18101                    </u> <small>Address</small>	Sheet	<u>          10          </u> of <u>          16          </u>
2. Plant	<u>                    Susquehanna Steam Electric Station                    </u> <small>Name</small>	Unit	<u>                    ONE                    </u>
	<u>                    PO Box 467, Berwick, PA 18603                    </u> <small>Address</small>		<u>                    SEE ATTACHED LIST                    </u>
			<u>                    Repair Organization P.O. No., Job No., etc.                    </u>
3. Work Performed by	<u>                    Pennsylvania Power &amp; Light Co.                    </u> <small>Name</small>	Type Code Symbol Stamp	<u>                    None                    </u>
	<u>                    Two North Ninth St., Allentown, PA 18101                    </u> <small>Address</small>	Authorization No.	<u>                    N/A                    </u>
		Expiration Date	<u>                    N/A                    </u>
4. Identification of System	<u>                    Control Rod Hydraulics System 155B, class 2.                    </u>		
5. (a) Applicable Construction Code	<u>          III          </u> 19 <u>  74  </u> Edition, thru <u>  W75  </u> Addenda, * <u>  1644-8  </u> Code Case		
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements	<u>  19  </u> <u>  89  </u>	(* '77 ED. W77 NF2610)	
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)
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95) GATE (DISC)	HENRY VOGT	1962-181441 (VALVE)	N/A	147112 (HCU-4223)	1974	REPLACED	YES
96) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4223)	1997	REPLACEMENT	YES
97) GATE (DISC)	HENRY VOGT	2322-181441 (VALVE)	N/A	147112 (HCU-4259)	1974	REPLACED	YES
98) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4259)	1997	REPLACEMENT	YES
99) GATE (DISC)	HENRY VOGT	2417-181441 (VALVE)	N/A	147112 (HCU-4635)	1974	REPLACED	YES
100) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-4635)	1997	REPLACEMENT	YES
101) GATE (DISC)	HENRY VOGT	2734-181441 (VALVE)	N/A	147112 (HCU-5023)	1974	REPLACED	YES
102) GATE (DISC)	HENRY VOGT	HT. CD "WAS" HTNO:AH5770	N/A	147112 (HCU-5023)	1997	REPLACEMENT	YES
103) STEM DISC ASSEMBLY	DRAGON	EM-1018 (VALVE)	N/A	147F102-3039	1977	REPLACED	YES
104) STEM/DISC ASSEMBLY	DRAGON	HT.NO.842109 DISC	N/A	147F102-3039	1984	REPLACEMENT	NO
105) STEM DISC ASSEMBLY	DRAGON	EM-1658 (VALVE)	N/A	147F101-3039	1977	REPLACED	YES

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

1. Owner	<u>Pennsylvania Power &amp; Light Co.</u> Name	Date	<u>8/18/98</u>
	<u>Two North Ninth St., Allentown, PA 18101</u> Address	Sheet	<u>11</u> of <u>16</u>
2. Plant	<u>Susquehanna Steam Electric Station</u> Name	Unit	<u>ONE</u>
	<u>PO Box 467, Berwick, PA 18603</u> Address		<u>SEE ATTACHED LIST</u>
			<u>Repair Organization P.O. No., Job No., etc.</u>
3. Work Performed by	<u>Pennsylvania Power &amp; Light Co.</u> Name	Type Code Symbol Stamp	<u>None</u>
	<u>Two North Ninth St., Allentown, PA 18101</u> Address	Authorization No.	<u>N/A</u>
		Expiration Date	<u>N/A</u>
4. Identification of System	<u>Control Rod Hydraulics System 155B, class 2.</u>		
5. (a) Applicable Construction Code	<u>III</u> 19 <u>74</u> Edition,	thru <u>W75</u> Addenda,	<u>* 1644-8</u> Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements	19 <u>89</u>		<u>(* '77 ED. W77 NF2610)</u>
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)
106) STEM/DISC ASSEMBLY	DRAGON	HT.NO.842109 DISC	N/A	147F101-3039	1984	REPLACEMENT	NO
107) STEM DISC ASSEMBLY	DRAGON	EM-1401 (VALVE)	N/A	147F101-3019	1977	REPLACED	YES
108) STEM/DISC ASSEMBLY	DRAGON	HT.NO.842109 DISC	N/A	147F101-3019	1984	REPLACEMENT	NO
109) STEM DISC ASSEMBLY	DRAGON	EM-1522 (VALVE)	N/A	147F101-3415	1977	REPLACED	YES
110) STEM/DISC ASSEMBLY	DRAGON	HT.NO.842109 DISC	N/A	147F101-3415	1984	REPLACEMENT	NO
111) STEM DISC ASSEMBLY	DRAGON	EM-1497 (VALVE)	N/A	147F101-2603	1977	REPLACED	YES
112) STEM/DISC ASSEMBLY	DRAGON	HT.NO.842109 DISC	N/A	147F101-2603	1984	REPLACEMENT	NO
113) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1275	N/A	HCU-4251	1975	REPLACED	YES
114) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	7240	N/A	HCU-4251	1997	REPLACEMENT	YES
115) GATE (DISC)	HENRY VOGT	588-181441 (VALVE)	N/A	147101 (HCU-5418)	1974	REPLACED	YES
116) GATE (DISC)	HENRY VOGT	HT. CODE "WAS"	N/A	147101 (HCU-5418)	1996	REPLACEMENT	YES





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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     08/05/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           13           of           16            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                                         SEE ATTACHED LIST                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Control Rod Hydraulics                    

5. (a) Applicable Construction Code           ASME Sec III           19           74           Edition,           thru W75           Addenda,           \* 1644           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89           (\* '77 ED. W'77 NF2610)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	S53743	REPLACED PIPE STRAP ON CRD, 147F102-3439	N/A
3-4	S63146	REPLACED DISC IN HCU-2219 VALVE-147112	NON VT-2 PER MI-PS-008
5-6	S63144	REPLACED DISC IN HCU-2251 VALVE-147112	NON VT-2 PER MI-PS-008
7-8	S63145	REPLACED DISC IN HCU-2647 VALVE-147112	NON VT-2 PER MI-PS-008
9-10	S63153	REPLACED DISC IN HCU-4203 VALVE-147112	NON VT-2 PER MI-PS-008
11-12	S63161	REPLACED DISC IN HCU-3447 VALVE-147112	NON VT-2 PER MI-PS-008
13-14	S63162	REPLACED DISC IN HCU-3051 VALVE-147112	NON VT-2 PER MI-PS-008
15-16	S64359	REPLACED STEM/DISC IN VALVE-147F101-2251	NON VT-2 PER MI-PS-008
17-18	S64361	REPLACED STEM/DISC IN VALVE-147F101-3055	NON VT-2 PER MI-PS-008
19-20	S64360	REPLACED STEM/DISC IN VALVE-147F101-3431	NON VT-2 PER MI-PS-008
21-22	S64362	REPLACED STEM/DISC IN VALVE-147F101-3035	NON VT-2 PER MI-PS-008
23-24	S64473	REPLACED NITROGEN ACCUMULATOR HCU-1015	NON VT-2 LEAK TEST PER MT-055-002
25-26	S63885	REPLACED DISC IN HCU-1831 VALVE-147101	NON VT-2 PER MI-PS-008
27-28	S64402	REPLACED DISC IN HCU-1439 VALVE-147101	NON VT-2 PER MI-PS-008
29-30	S70812	REPLACED NITROGEN ACCUMULATOR HCU-5023	NON VT-2 LEAK TEST PER MT-055-002
31-32	S70219	REPLACED NITROGEN ACCUMULATOR HCU-1447	NON VT-2 LEAK TEST PER MT-055-002
33-34	S71239	REPLACED NITROGEN ACCUMULATOR HCU-2639	NON VT-2 LEAK TEST PER MT-055-002



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

1. Owner Pennsylvania Power & Light Co. Date 08/05/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 14 of 16  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Control Rod Hydraulics SYSTEM 155B, CLASS II.

5. (a) Applicable Construction Code ASME Sec III 19 74 Edition, thru W75 Addenda, \* 1644 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* '77 ED. W77 NF2610)

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

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
35-36	S73601	REPLACED NITROGEN ACCUMULATOR HCU-0223	NON VT-2 LEAK TEST PER MT-055-002
37-38	S73602	REPLACED NITROGEN ACCUMULATOR HCU-1011	NON VT-2 LEAK TEST PER MT-055-002
39-40	S73603	REPLACED NITROGEN ACCUMULATOR HCU-1807	NON VT-2 LEAK TEST PER MT-055-002
41-42	S73604	REPLACED NITROGEN ACCUMULATOR HCU-3055	NON VT-2 LEAK TEST PER MT-055-002
43-44	S73605	REPLACED NITROGEN ACCUMULATOR HCU-3807	NON VT-2 LEAK TEST PER MT-055-002
45-46	S73606	REPLACED NITROGEN ACCUMULATOR HCU-3859	NON VT-2 LEAK TEST PER MT-055-002
47-48	S73607	REPLACED NITROGEN ACCUMULATOR HCU-4247	NON VT-2 LEAK TEST PER MT-055-002
49-50	S73608	REPLACED NITROGEN ACCUMULATOR HCU-4627	NON VT-2 LEAK TEST PER MT-055-002
51-52	S73609	REPLACED NITROGEN ACCUMULATOR HCU-5051	NON VT-2 LEAK TEST PER MT-055-002
53-54	S73610	REPLACED NITROGEN ACCUMULATOR HCU-5831	NON VT-2 LEAK TEST PER MT-055-002
55-56	S71156	REPLACED NITROGEN ACCUMULATOR HCU-4219	NON VT-2 LEAK TEST PER MT-055-002
57-58	S71105	REPLACED NITROGEN ACCUMULATOR HCU-1847	NON VT-2 LEAK TEST PER MT-055-002
59-60	S71157	REPLACED NITROGEN ACCUMULATOR HCU-5023	NON VT-2 LEAK TEST PER MT-055-002
61-62	S71903	REPLACED NITROGEN ACCUMULATOR HCU-0639	NON VT-2 LEAK TEST PER MT-055-002
63-64	S71159	REPLACED NITROGEN ACCUMULATOR HCU-2611	NON VT-2 LEAK TEST PER MT-055-002

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

1. Owner Pennsylvania Power & Light Co. Date 08/05/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 15 of 16  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

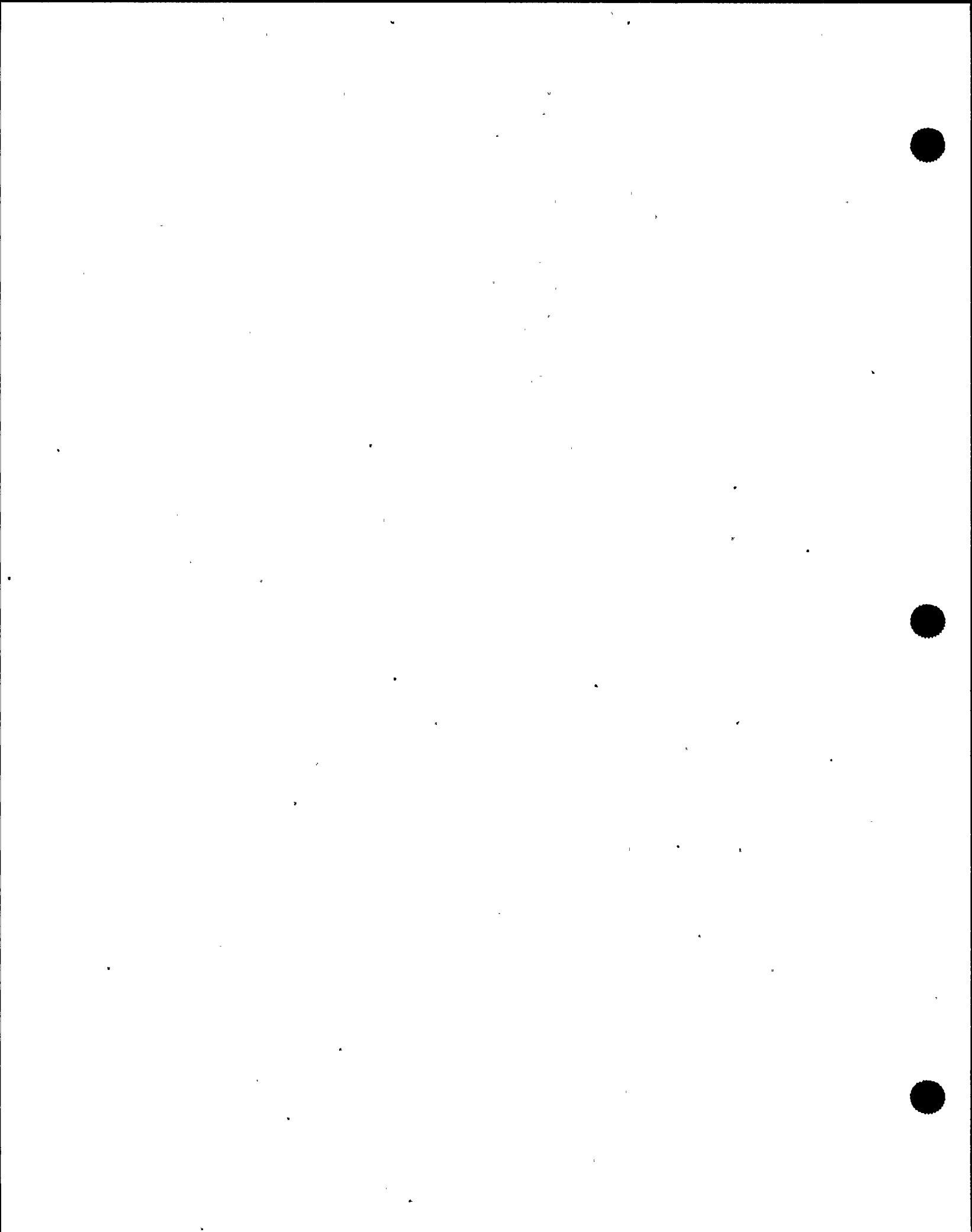
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Control Rod Hydraulics SYSTEM 155B, CLASS II.

5. (a) Applicable Construction Code ASME Sec III 19 74 Edition, thru W75 Addenda, \* 1644 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* '77 ED. W'77 NF2610)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
65-66	S71990	REPLACED DISC IN HCU-0635 VALVE-147112	NON VT-2 PER MI-PS-008
67-68	S71991	REPLACED DISC IN HCU-0647 VALVE-147112	NON VT-2 PER MI-PS-008
69-70	S71992	REPLACED DISC IN HCU-1039 VALVE-147112	NON VT-2 PER MI-PS-008
71-72	S71993	REPLACED DISC IN HCU-2203 VALVE-147112	NON VT-2 PER MI-PS-008
73-74	S71994	REPLACED DISC IN HCU-2259 VALVE-147112	NON VT-2 PER MI-PS-008
75-76	S71995	REPLACED DISC IN HCU-2603 VALVE-147112	NON VT-2 PER MI-PS-008
77-78	S71996	REPLACED DISC IN HCU-2623 VALVE-147112	NON VT-2 PER MI-PS-008
79-80	S71997	REPLACED DISC IN HCU-2631 VALVE-147112	NON VT-2 PER MI-PS-008
81-82	S71998	REPLACED DISC IN HCU-3019 VALVE-147112	NON VT-2 PER MI-PS-008
83-84	S71999	REPLACED DISC IN HCU-3039 VALVE-147112	NON VT-2 PER MI-PS-008
85-86	S72000	REPLACED DISC IN HCU-3415 VALVE-147112	NON VT-2 PER MI-PS-008
87-88	S72001	REPLACED DISC IN HCU-3423 VALVE-147112	NON VT-2 PER MI-PS-008
89-90	S72002	REPLACED DISC IN HCU-3807 VALVE-147112	NON VT-2 PER MI-PS-008
91-92	S72003	REPLACED DISC IN HCU-3835 VALVE-147112	NON VT-2 PER MI-PS-008
93-94	S72004	REPLACED DISC IN HCU-4219 VALVE-147112	NON VT-2 PER MI-PS-008
95-96	S72005	REPLACED DISC IN HCU-4223 VALVE-147112	NON VT-2 PER MI-PS-008



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

1. Owner Pennsylvania Power & Light Co. Date 08/05/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 16 of 16  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Control Rod Hydraulics SYSTEM 155B, CLASS II.

5. (a) Applicable Construction Code ASME Sec III 19 74 Edition, thru W75 Addenda, \* 1644 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* '77 ED. W'77 NF2610)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
97-98	S72006	REPLACED DISC IN HCU-4259 VALVE-147112	NON VT-2 PER MI-PS-008
99-100	S72007	REPLACED DISC IN HCU-4635 VALVE-147112	NON VT-2 PER MI-PS-008
101-102	S72008	REPLACED DISC IN HCU-5023 VALVE-147112	NON VT-2 PER MI-PS-008
103-104	S81766	REPLACED STEM/DISC IN VALVE-147F102-3039	NON VT-2 PER MI-PS-008
105-106	S81766	REPLACED STEM/DISC IN VALVE-147F101-3039	NON VT-2 PER MI-PS-008
107-108	S81765	REPLACED STEM/DISC IN VALVE-147F101-3019	NON VT-2 PER MI-PS-008
109-110	S81767	REPLACED STEM/DISC IN VALVE-147F101-3415	NON VT-2 PER MI-PS-008
111-112	S81764	REPLACED STEM/DISC IN VALVE-147F101-2603	NON VT-2 PER MI-PS-008
113-114	S82165	REPLACED NITROGEN ACCUMULATOR HCU-4251	NON VT-2 PER MT-055-002
115-116	S64137	REPLACED DISC IN HCU-5418 VALVE-147101	NON VT-2 PER MT-055-002
117-118	S64240	REPLACED DISC IN HCU-1811 VALVE-147101	NON VT-2 PER MT-055-002





**FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS**  
 Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division I

1. Manufactured by General Electric Company, P.O. Box 780, Wilmington, N.C. 28401  
(Name and address of Manufacturer)

2. Manufactured for General Electric Company, P.O. Box 780, Wilmington, N.C. 28401  
(Name and address of Purchaser)

3. Type Vertical Vessel No. S.N. 1939 (        ) (        ) Natl. Bd. No.        Yr. Built 1975  
(Horiz. or Vert.) (Mfrs. Serial) (State & State No.)

4. SHELL: Matl. SA-106 Gr B T.S. 60,000 Nom. Thk. .53 In. Allow        In. Diam. 0 Ft. A In. Length 3 Ft. 2 In.  
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)

5. SEAMS: Long Seamless H.T.        R.T.        Sectioned        Efficiency 100 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)  
 Girth None H.T.        R.T.        Sectioned        No. of Courses       

If riveted or brazed describe seams fully under remarks.

6. HEADS: (a) Material SA182-F304 T.S. 60,000 (b) Material SA182-F304 T.S. 60,000  
(Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)  
 (a) Top 2.5"                                    7,230 Flathead  
 (b) Bottom 2.5"                                    7,230 Flathead  
 If removable, bolts used        Other fastening Integral Threads  
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. <sup>2</sup> 1750 psi at max. temp. 150 °F. Min. temp. (when less than -20°)        °F. Hydrostatic ~~Examined~~ Test Press 2800 min. psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number        Size        Location       

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

10. INSPECTION Manholes, No. Gas Port Size .75" Location Bottom Head  
 OPENINGS: Handholes, No. Water Port Size .97" Location Top Head  
 Threaded, No.        Size        Location       

11. SUPPORTS: Skirt No Lugs        Legs        Other        Attached         
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: Piston Accumulator - Dwg. 921D595  
Demineralized Water & Nitrogen Service

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents. if postweld heat-treated. List other internal or external pressures with coincident temperature when applicable.)

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 I.  
 Date Oct. 22 19 75 Signed G.E., BWRSD - REM By Charles Brewer  
(Manufacturer)

Certificate of Authorization No. 10,572 Expires July 21, 1976

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY General Electric Company at Wilmington, North Carolina

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. Carolina and employed by Department of Labor 2567 04366 State of North Carolina have inspected the pressure vessel described in this manufacturer's data report on Oct. 22 1975, 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 Oct. 22 19 75  
       Inspector's Signature  
 Commission NC 723 PA. WC 1766 Ohio  
Natl Board, State, Province and No.

**FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS**  
 Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division I

1. Manufactured by General Electric Company, P.O. Box 780, Wilmington, N.C. 28401  
(Name and address of Manufacturer)

2. Manufactured for General Electric Company, P.O. Box 780, Wilmington, N.C. 28401  
(Name and address of Purchaser)

3. Type Vertical Vessel No. (1351) (S.N.) (Mfr. Serial) (State & State No.) Natl. Bd. No. 7.031 Yr. Built 1975  
(Horiz. or Vert.)

4. SHELL: Matl. SA-106 Gr B T.S. 60,000 Thk. .53 In. Allow      In. Diam. 0 Ft. A In. Length 3 Ft. 2 In.  
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)

5. SEAMS: Long Seamless H.T.      R.T.      Sectioned      Efficiency 100 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)  
 Girth None H.T.      R.T.      Sectioned      No. of Courses     

If riveted or brazed describe seams fully under remarks.

6. HEADS: (a) Material SA182-F304 T.S. 60,000 (b) Material SA182-F304 T.S. 60,000  
Location (Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)  
 (a) Top 2.5"                          7,230 Flathead  
 (b) Bottom 2.5"                          7,230 Flathead  
 If removable, bolts used      Other fastening Integral Threads  
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. 1750 psi at max. temp. 150 °F. Min. temp. (when less than -20°)      °F. Hydrostatic ~~Examined~~ Test Press 2800 min. psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number      Size      Location     

9. NOZZLES:  

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

INSPECTION MANHOLES, No. Gas Port Size .75" Location Bottom Head  
 OPENINGS: HANDHOLES, No. Water Port Size .97" Location Top Head  
 Threaded, No.      Size      Location     

10. SUPPORTS: Skirt No Lugs      Legs      Other      Attached       
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: Piston Accumulator - Dwg. 921D595  
Demineralized Water & Nitrogen Service

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents. If postweld heat-treated. List other internal or external pressures with coincident temperature when applicable.)

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 I.  
 Date May 13 19 75 Signed G.E., BWRSD - REM By Wm. J. ...  
(Manufacturer)

Certificate of Authorization No. 10,572 Expires July 21, 1976

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY General Electric Company at Wilmington, North Carolina

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. Carolina and employed by Department of Labor of State of North Carolina have inspected the pressure vessel described in this manufacturer's data report on May 13 1975, 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 May 13 19 75 Inspector's Signature E. J. ... Commission NC 723 PA. WC 1766 Ohio  
Nat'l Board, State, Province and No.

6823



**FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS**  
 Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division I

1. Manufactured by General Electric Company, P.O. Box 780, Wilmington, N.C. 28401  
(Name and address of Manufacturer)

2. Manufactured for General Electric Company, P.O. Box 780, Wilmington, N.C. 28401  
(Name and address of Purchaser)

3. Type Vertical Vessel No. (1163) ( S.N. ) (        ) (State & State No.) Natl. Bd. No. 7.031 Yr. Built 1975  
(Horiz. or Vert.) (Mfr. Serial) (Spot or Complete) (Yes or No)

4. SHELL: Matl. SA-106 Gr B T.S. 60,000 Nom. Thk. 53 In. Allow 0 In. Diam. 0 Ft. A In. Length 3 Ft. 2 In.  
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)

5. SEAMS: Long Seamless H.T.        R.T.        Sectioned        Efficiency 100 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No)<sup>1</sup> (Spot or Complete) (Yes or No)  
 Girth None H.T.        R.T.        Sectioned        No. of Courses       

If riveted or brazed describe seams fully under remarks.

6. HEADS: (a) Material SA182-F304 T.S. 60,000 (b) Material SA182-F304 T.S. 60,000  
(Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)  
 (a) Top 2.5"                                    7,230 Flathead  
 (b) Bottom 2.5"                                    7,230 Flathead  
 If removable, bolts used        Other fastening Integral Threads  
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. <sup>2</sup> 1750 psi at max. temp. 150 °F. Min. temp. (when less than -20°)        °F. Hydrostatic ~~Examined~~ Test 2800 min. psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number        Size        Location       

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached

INSPECTION Manholes, No. Gas Port Size .75" Location Bottom Head  
 OPENINGS: Handholes, No. Water Port Size .97" Location Top Head  
 Threaded, No.        Size        Location       

11. SUPPORTS: Skirt No Lugs        Legs        Other        Attached         
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: Piston Accumulator - Dwg. 921D595  
Demineralized Water & Nitrogen Service

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents. If postweld heat-treated. List other internal or external pressures with coincident temperature when applicable.)

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 I.  
 Date May 13 19 75 Signed G.E., BWRSD - REM By Wm J Henderson  
(Manufacturer)

Certificate of Authorization No. 10,572 Expires July 21, 1976

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY General Electric Company at Wilmington, North Carolina

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. Carolina and employed by Department of Labor of State of North Carolina have inspected the pressure vessel described in this manufacturer's data report on May 13 1975, 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 May 13 19 75 E. S. Sherrill Commissions NC 723 PA. WC 1766 Ohio 6375  
Inspector's Signature Nat'l Board, State, Province and No.

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7240 N/A 112D3405 G001 Rev 03 N/A 1997  
(HORIZ. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 N/A N/A  
Year Addenda (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. ID. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, DBC, Sngl. Lap, Butt) RT. (Spot or Full) EL. (%) RT. Temp. (F) Time (hr) Girth (Welded, DBC, Sngl. Lap, Butt) RT. (Spot/Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No. Grade) (Spec. No. Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) <u>Top</u>	<u>2.485"</u>	<u>0.005"</u>	-	-	-	-	-	<u>7.220"</u>	<u>Flathead</u>
(b) <u>Bottom</u>	<u>2.485"</u>	<u>0.005"</u>	-	-	-	-	-	<u>7.220"</u>	<u>Flathead</u>

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l, Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
<u>Gas Port</u>	<u>1</u>	<u>0.75"</u>	<u>Opening</u>	<u>SA182-F304</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>Water Port</u>	<u>1</u>	<u>0.97"</u>	<u>Opening</u>	<u>SA182-F304</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

... Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:  
N/A  
(Name of part, item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE (Manufacturer) Signed C. Spartz (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/7, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 Signed James P. Ewens (Authorized Inspector) Commission No. NC 1231, Ohio, WC 3686 PA  
(Natl. Board (incl. endorsements), State, Prov. and No.)

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7223 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg.'s serial No.) (CFR) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 N/A N/A  
Year Addenda (Date) Code Case No. Special Service per UC-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, DGL, Sngl. Lap, Butt) RT. (Spot or Full) EL (%) RT. Temp. (F) Time (hr) Girth (Welded, DGL, Sngl. Lap, Butt) RT. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No. Grade) (Spec. No. Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knick Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) <u>Top</u>	<u>2.485"</u>	<u>0.005"</u>	-	-	-	-	-	<u>7.220"</u>	<u>Flathead</u>
(b) <u>Bottom</u>	<u>2.485"</u>	<u>0.005"</u>	-	-	-	-	-	<u>7.220"</u>	<u>Flathead</u>

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
<u>Gas Port</u>	<u>1</u>	<u>0.75"</u>	<u>Opening</u>	<u>SA182-F304</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>Water Port</u>	<u>1</u>	<u>0.97"</u>	<u>Opening</u>	<u>SA182-F304</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

11. Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A

(Name of part, item number, Mfg.'s name and identifying stamp)

Complete mechanical assembly with no welded joints.

Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.

Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

Date 09/04/97

Co. name GE-NE  
(Manufacturer)

Signed C. Brant  
(Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/22, 1997, and

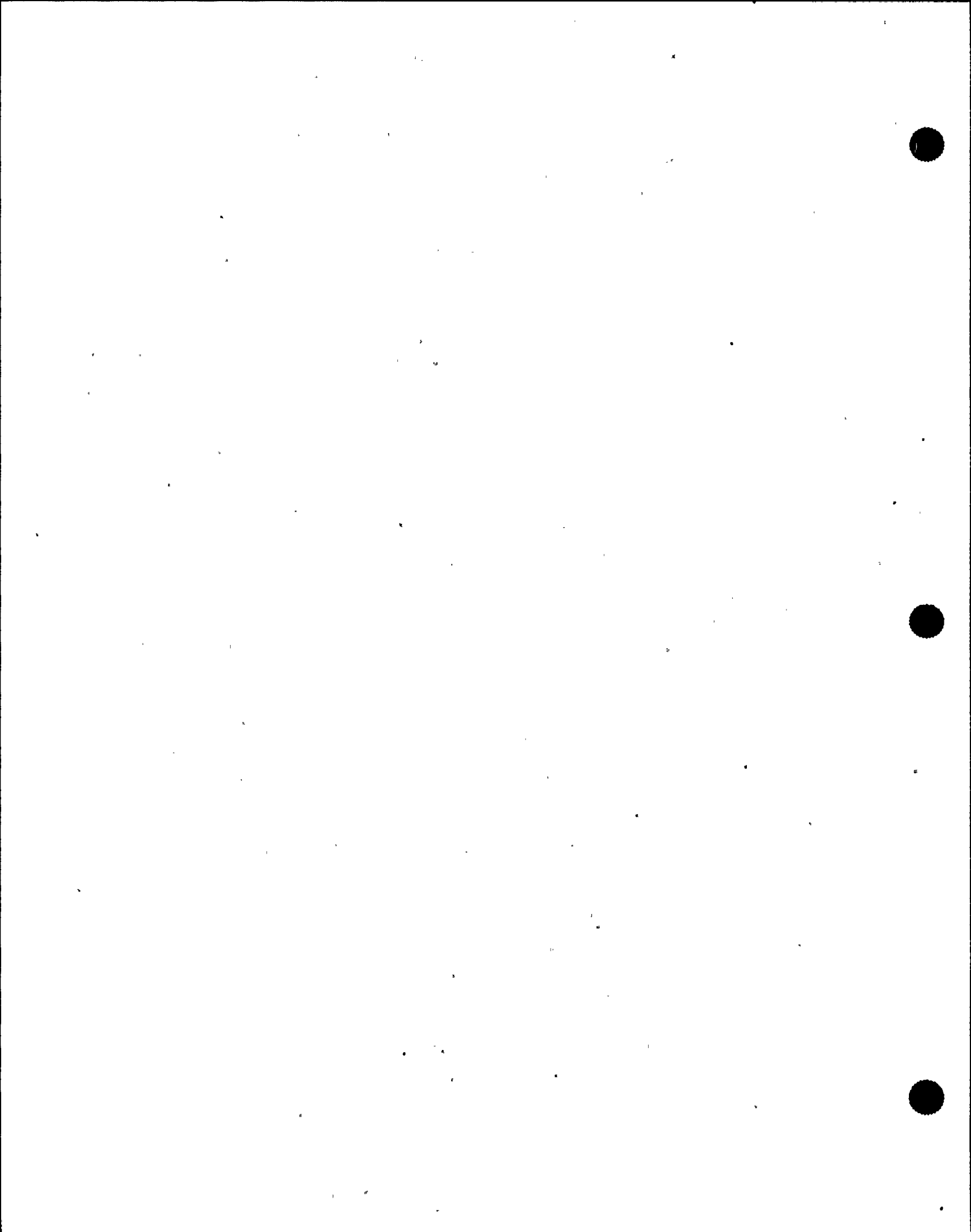
state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described 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 9/5/97 Signed \_\_\_\_\_

James P. Evers commissions  
(Authorized Inspector)

NC 1231, Ohio, WC 3686 PA  
(Natl. Board (Incl. endorsements), State, Prov. and No.)



**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7225 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996; N/A N/A  
Year Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. ID. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, DBL, Sing., Lap, Butt) H.T. (Spot or Full) E.T. (%) H.T. Temp. (F) Time (hr) Girth (Welded, DBL, Sing., Lap, Butt) H.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuclide Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A  
(Name of part, item number, Mfr's name and identifying stamp)

Complete mechanical assembly with no welded joints.

Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.

Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE Signed C. Bennett  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/22, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 Signed James P. Evers Commissions NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)



**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7222 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 Addenda (Date) N/A Code Case No. N/A Special Service per UG-120(d) N/A

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) (Nom. THK. (in.) (Corr. Allow. (in.) (Diam. ID. (ft. & in.) (Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, Dbl., Sing., Lap, Butt) RT. (Spot or Full) Ell. (%) RT. Temp. (F) Time (hr) Girth (Welded, Dbl., Sing., Lap, Butt) RT. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:  
N/A  
(Name of part, item number, Mfg's name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

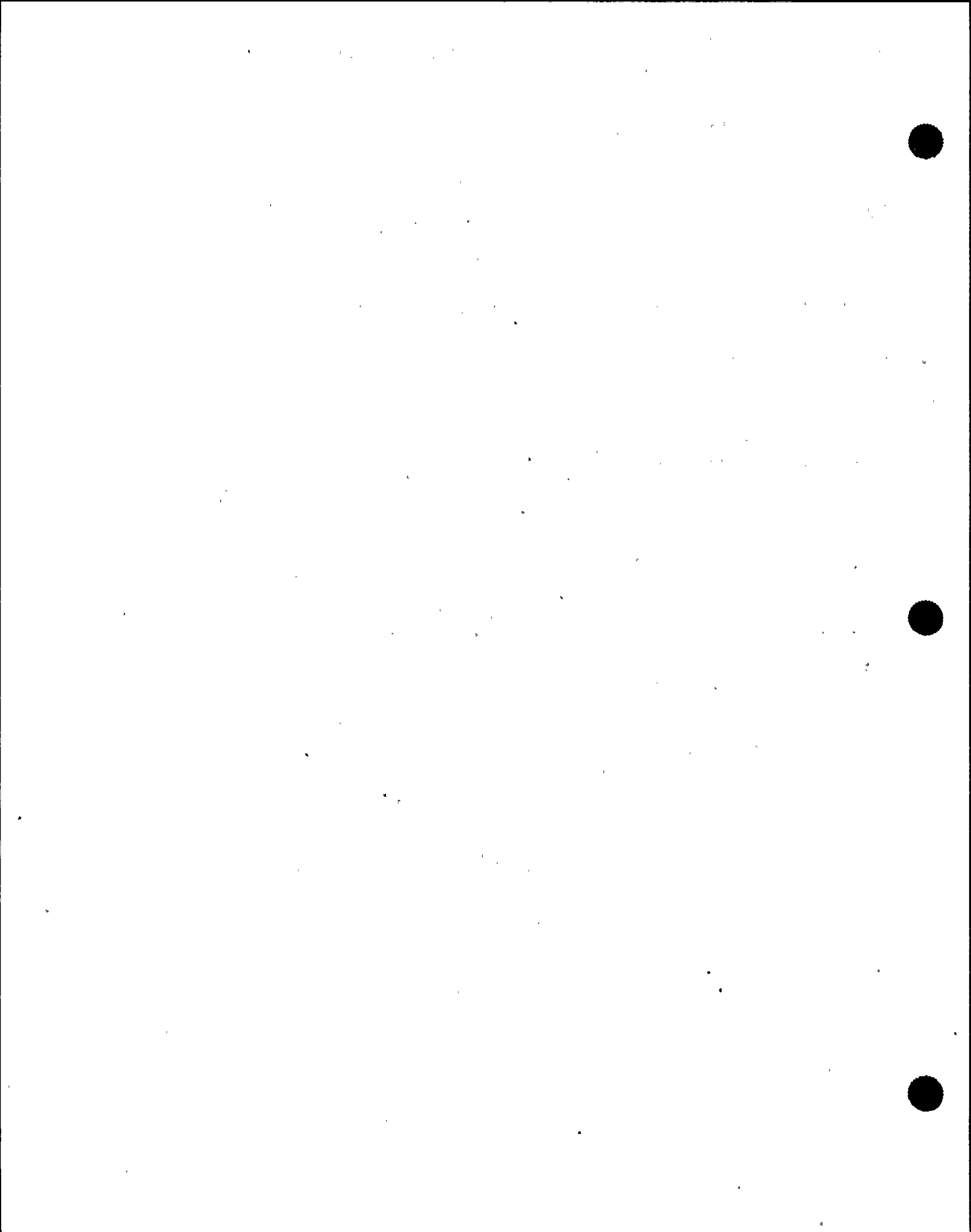
Date 09/04/97 Co. name GE-NE Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/22, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 Signed [Signature] Commissioned NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)



**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7263 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996; N/A N/A  
Year Addenda (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. Ell. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, Dbl. Sngl. Lap, Butt) RT. (Spot or Full) EL (%) RT. Temp. (F) Time (hr) Grth (Welded, Dbl. Sngl. Lap, Butt) RT. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

Supports: skirt No Lugs No. Legs No. Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:  
N/A  
(Name of part, item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE (Manufacturer) Signed C. Bennett (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/2, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer make 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 9/5/97 Signed James P. Ewew (Authorized Inspector) Commission No. NC 1231, Ohio, WC 3686 PA  
(Nat'l Board (incl. endorsements), State, Prov. and No.)

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7211 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 N/A N/A  
Year Addenda (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. ID. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, DGL, Sing., Lap, Butt) RT. (Spot or Full) EL. (%) RT. Temp. (F) Time (hr) Girth (Welded, DGL, Sing., Lap, Butt) RT. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

11. Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A  
(Name of part, item number, Mfg's name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE Signed C. S. Barrett  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/15, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 Signed James P. Emery Commissions NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7196 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg's serial No.) (CFR) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 N/A N/A  
Year Addenda (Date) Code Case No. Special Service per UCS-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. Dd. (R. & in.) Length (overall) (R. & in.)

7. Seams: Seamless N/A  
Long. (Welded, Dbl. Sing. Lap, Butt) RT. (Spot or Full) Eff. (%) H.T. Temp. (F) Time (hr) Orth. (Welded, Dbl. Sing. Lap, Butt) RT. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A  
(Name of part, item number, Mfg's name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

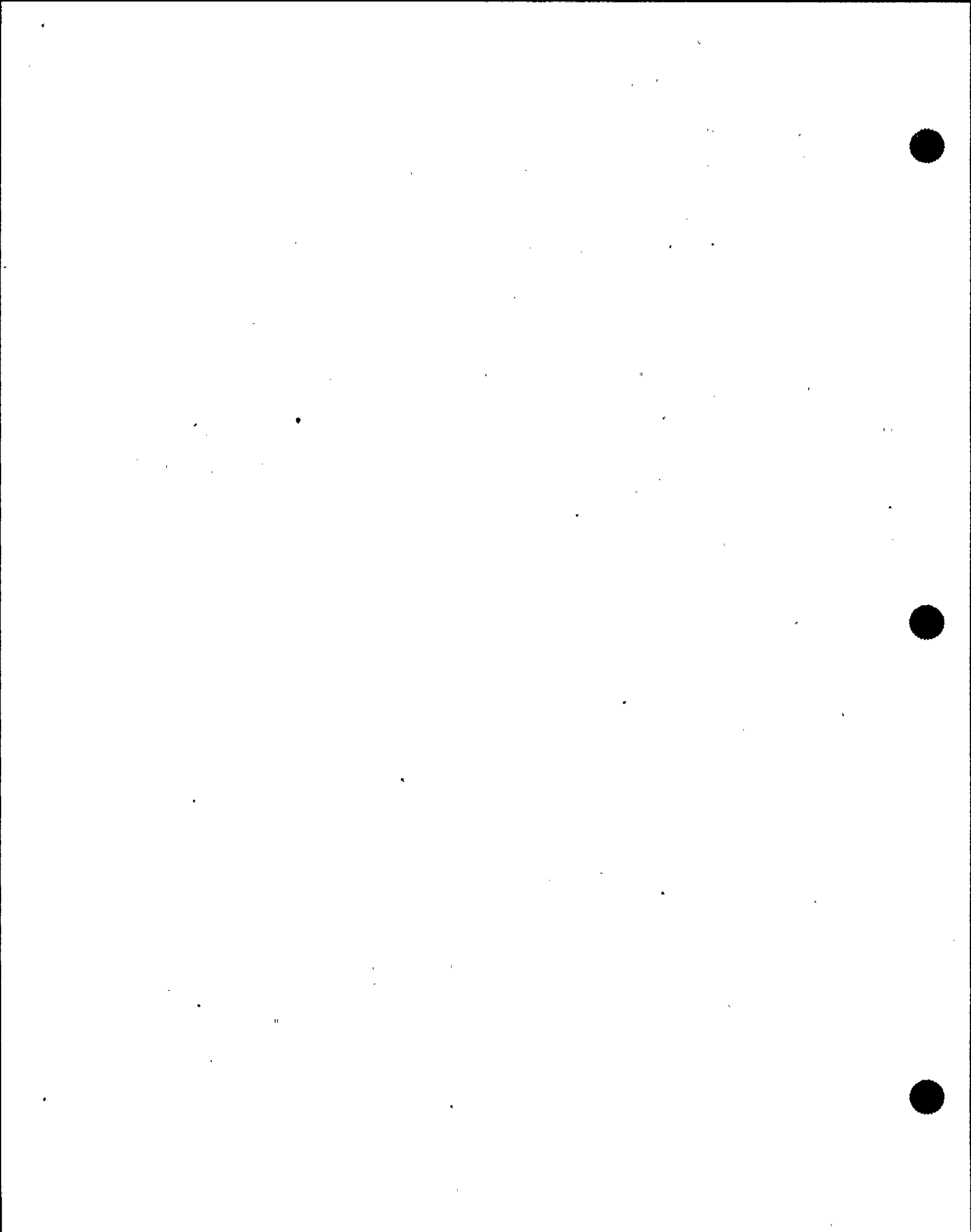
Date 09/04/97 Co. name GE-NE Signed C. Baylitt  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/15, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 Signed James P. Egan Commissioned NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)



**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

EVAL NO. 960039874

1. Manufactured and certified by General Electric Company Nuclear Fuel & Components Manufacturing (GE NF & CM)  
2117 Castle Hayne Road, Wilmington, North Carolina 28402  
(Name and address of manufacturer)

2. Manufactured for TVA DECATUR, AL 35609-2000  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 6149 N/A 112D3405 G001 Rev 02 N/A 1994  
(Horiz. or vert. tank) (Mfr's serial No.) (CFR) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1992 to 1992 N/A N/A  
Year Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, DCL, Sing. Lap, Bull) R.T. (Spot or Full) EL (%) R.T. Temp. (F) Time (hr) Girth (Welded, DCL, Sing. Lap, Bull) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) <u>Top</u>	<u>2.485"</u>	<u>0.005"</u>	-	-	-	-	-	<u>7.220"</u>	<u>Flathead</u>
(b) <u>Bottom</u>	<u>2.485"</u>	<u>0.005"</u>	-	-	-	-	-	<u>7.220"</u>	<u>Flathead</u>

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
<u>Gas Port</u>	<u>1</u>	<u>0.75"</u>	<u>Opening</u>	<u>SA182-F304</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>Water Port</u>	<u>1</u>	<u>0.97"</u>	<u>Opening</u>	<u>SA182-F304</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

11. Supports: Skirt No Legs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A  
(Name of part, Item number, Mfr's name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1996

Date 10/28/94 Co. name GE NF & CM  
(Manufacturer)

Signed \_\_\_\_\_  
(Inspector's Name)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE NF & CM at Wilmington, North Carolina

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 8/23, 1994, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 10/28/94 Signed Jacqueline P. Evers Commissioned  
(Authorized Inspector)

NC 1231, Ohio, WC 3686 PA  
(Nat'l Board (Incl. endorsements), State, Prov. and No.)





**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

EVAL NO. 9600039874A

Manufactured and certified by General Electric Company Nuclear Fuel & Components Manufacturing Co. (GE NF & CM)  
2117 Castle Hayne Road, Wilmington, North Carolina 28402  
(Name and address of manufacturer)

2. Manufactured for TVA DECATUR, AL 35609-2000  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 6163 N/A 112D3405 G001 Rev 02 N/A 1994  
(Horiz. or vert. tank) (Mfg's serial No.) (CFR) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1992 to 1992 N/A N/A  
Code Case No. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. ID. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, Dbl. Sing. Lap, Butt) R.T. (Spot or Full) EL (%) R.T. Temp. (F) Time (hr) Girth (Welded, Dbl. Sing. Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knick Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe either fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

11. Supports: Skirt No Legs (N/A) Legs (N/A) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:  
N/A  
(Name of part, Item number, Mfg's name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10,572 expires June 10, 1996  
 Date 10/28/94 Co. name GE NF & CM Signed \_\_\_\_\_  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE NF & CM at Wilmington, North Carolina.  
 I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 8/23, 1994, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 10/28/94 signed James P. Evers Commissioned NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) [Natl Board (incl. endorsements), State, Prov. and No.]

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7175 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 N/A N/A  
Year Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA351 CFB 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. ID. (ft. & in.) Length (Overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, Dbl., Sing., Lap, Butt) RT. (Spot or Full) Eff. (%) RT. Temp. (F) Time (hr) Girth (Welded, Dbl., Sing., Lap, Butt) RT. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

Supports: Skirt No Legs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A

(Name of part, item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.

Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.

Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

Date 09/04/97

Co. name

GE-NE

(Manufacturer)

Signed

C. S. Bryant  
(Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 9/5, 1997, and

state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 Signed

James P. Rivera  
(Authorized Inspector)

Commissions NC 1231, Ohio, WC 3686 PA

(Natl. Board (incl. endorsements), State, Prov. and No.)

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of Installation not known  
(Name and address)

4. Type Vertical 7213 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg's serial No.) (CFR) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 N/A N/A  
Year Addenda (Date) Code Case Nos. Special Service per UCS-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. LD. (R. & in.) Length (overall) (R. & in.)

7. Seams: Seamless N/A  
Long. (Welded, Dbl., Sing., Lap, Butt) H.T. (Spot or Full) E.H. (%) H.T. Temp. (F) Time (hr) Girth (Welded, Dbl., Sing., Lap, Butt) H.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b) Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l, Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A  
(Name of part, Item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE signed C. Bennett  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/15, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 signed James P. Emery Commissions NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) [Natl Board (incl. endorsements), State, Prov. and No.]

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS  
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1**

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7179 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg.'s serial No.) (CFR) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 N/A N/A  
Year Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, Dbl., Sing., Lap, Butt) R.T. (Spot or Full) Eff. (%) R.T. Temp. (F) Time (hr) Girth (Welded, Dbl., Sing., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

Supports: Skirt No Legs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A  
(Name of part, item number, Mfg.'s name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE (Manufacturer) Signed C. S. Baggett (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/2, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 Signed Jason P. Emory (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA  
(Nat'l. Board (incl. endorsements), State, Prov. and No.)

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7241 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 N/A N/A  
Year Addenda (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. ID. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, Dbl., Sing., Lap, Butt) R.T. (Spot or Full) E.R. (%) R.T. Temp. (F) Time (hr) Wth (Welded, Dbl., Sing., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

11. Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A  
(Name of part, item number, Mfr's name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE Signed C. Bennett  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/2, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 signed J. P. [Signature] Commissions NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) [Natl. Board (incl. endorsements), State, Prov. and No.]

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7243 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg.'s serial No.) (CRN) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996 Addenda (Date) N/A Code Case Nos. N/A Special Service per UG-120(d) N/A

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. ID. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: Seamless N/A  
Long. (Welded, DBC, Sing., Lap, Butt) RT. (Spot or Full) EL. (%) H.T. Temp. (F) Time (hr) Girth (Welded, DBC, Sing., Lap, Butt) RT. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

11. Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:  
N/A  
(Name of part, item number, Mfg.'s name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

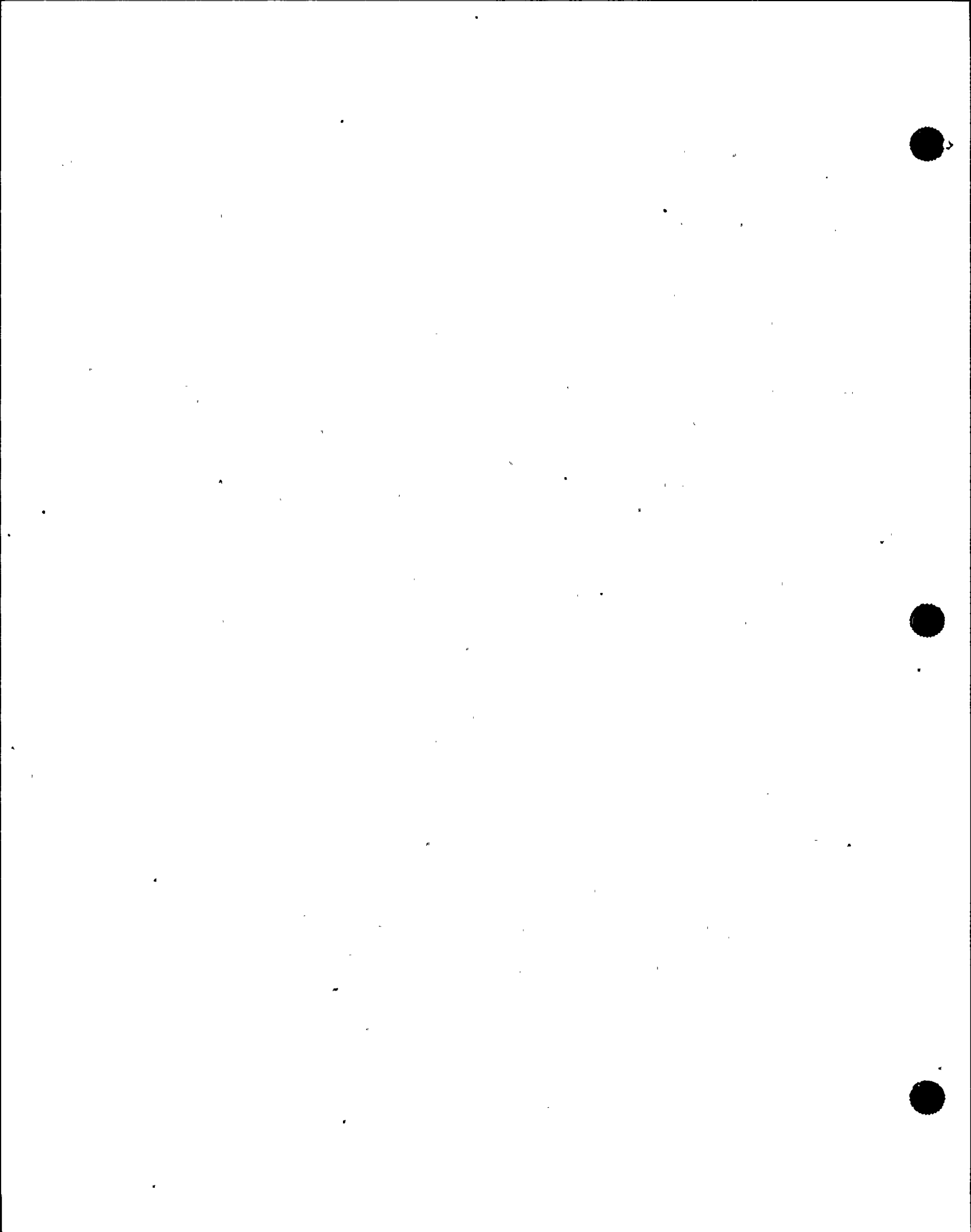
Date 09/04/97 Co. name GE-NE signed C. Bassett  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/2, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 signed James P. Evans Commissioned NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) [NAT Board (incl. endorsements), State, Prov. and No.]



**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7209 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996; N/A N/A  
Year Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (In.) Corr. Allow. (In.) Diam. ID. (R. & In.) Length (overall) (R. & In.)

7. Seam: Seamless N/A  
Long. (Welded, DBL, Sing., Lap, Butt) RT. (Spot or Full) Eff. (%) RT. Temp. (F) Time (hr) Girth (Welded, DBL, Sing., Lap, Butt) RT. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

11. Supports: Skirt No Lugs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:  
N/A  
(Name of part, item number, Mfg's name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE signed C. Spant  
(Manufacturer) (Representative)

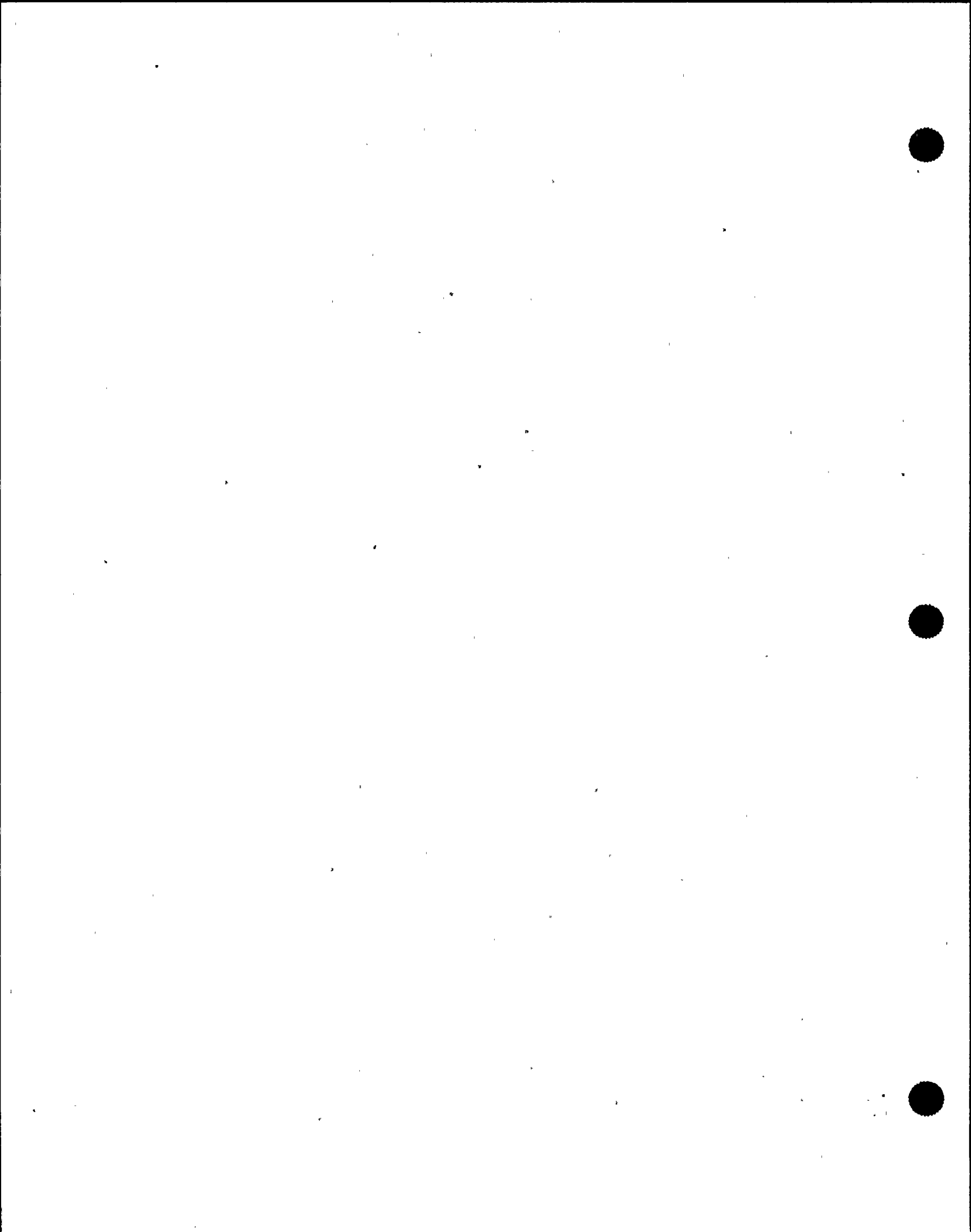
**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/7, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 signed James P. Emox Commissions NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) (Nat'l. Board (incl. endorsements), State, Prov. and No.)





**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by General Electric Company Nuclear Energy (GE-NE)  
3901 Castle Hayne Road, Wilmington, North Carolina 28401  
(Name and address of manufacturer)

2. Manufactured for Susquehanna 1&2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of installation not known  
(Name and address)

4. Type Vertical 7224 N/A 112D3405 G001 Rev 03 N/A 1997  
(Horiz. or vert. tank) (Mfg's serial No.) (CFR) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 to 1996; N/A N/A  
Year Addenda (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, DBL, Singl, Lap, Butt) RT. (Spot or Full) Eff. (%) RT. Temp. (F) Time (hr) Girth (Welded, DBL, Singl, Lap, Butt) RT. (Spot/Partial, or Full) No. of Courses

8. Head: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No. Grade) (Spec. No. Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b) Bottom	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
Gas Port	1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
Water Port	1	0.97"	Opening	SA182-F304	N/A	N/A	N/A	N/A

11. Support: Skirt No Legs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:  
N/A  
(Name of part, Item number, Mfg's name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 09/04/97 Co. name GE-NE Signed C. Bennett  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE-NE at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 5/22, 1997, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 9/5/97 signed James Powers Commissions NC 1231, Ohio, WC 3686 PA  
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

EVAL NO. 960003987  
 PAGE 1 OF 5

1. Manufactured and certified by General Electric Company Nuclear Fuel & Components Manufacturing (GE NF & CM)  
2117 Castle Hayne Road, Wilmington, North Carolina 28402  
(Name and address of manufacturer)

2. Manufactured for TVA DECATUR, AL 35609-2000  
(Name and address of purchaser)

3. Location of Installation not known  
(Name and address)

4. Type Vertical 6143 N/A 112D3405 G001 Rev 02 N/A 1994  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Natl. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1992 to 1992 N/A N/A  
Year Addenda (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA351 CF8 0.750" 0.005" 7.028" 3 ft. 2.38 inches  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. LD. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Seamless N/A  
Long. (Welded, DBL, Sngl, Lap, Butt) R.T. (Spot or Full) Eff. (%) R.T. Temp. (F) Time (hr) Girth (Welded, DBL, Sngl, Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA182-F304 (b) Mat'l. SA182-F304  
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knick Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) <u>Top</u>	<u>2.485"</u>	<u>0.005"</u>	-	-	-	-	-	<u>7.220"</u>	<u>Flathead</u>
(b) <u>Bottom</u>	<u>2.485"</u>	<u>0.005"</u>	-	-	-	-	-	<u>7.220"</u>	<u>Flathead</u>

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 2100 psi at max. temp. 150° F. Min. design metal temp. 35° F at 2100 psi. Hydrostatic test pressure 3500 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Drain or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
<u>Gas Port</u>	<u>1</u>	<u>0.75"</u>	<u>Opening</u>	<u>SA182-F304</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>Water Port</u>	<u>1</u>	<u>0.97"</u>	<u>Opening</u>	<u>SA182-F304</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

11. Supports: Stict No Legs (No.) Legs (No.) Other Band Clamps Attached around approx. middle  
(Yes or No) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:  
N/A  
(Name of part, item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.  
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.  
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

**CERTIFICATE OF SHOP COMPLIANCE**

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. "U" Certificate of Authorization No. 10.572 expires June 10, 1996

Date 10/28/94 Co. name GE NF & CM (Manufacturer) Signed [Signature] (Representative)

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**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by GE NF & CM at Wilmington, North Carolina.

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 7/13, 1994, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME, Section VIII, Division 1. 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 10/28/94 Signed [Signature] (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA  
(Natl Board (incl. endorsements), State, Prov. and No.)



4874  
AH5770

RIR 97-0592

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

As required by the Provisions of the ASME-Code Rules

- 1. (a) Manufactured by VOGT VALVE CO., LOUISVILLE, KY  
(Name and address of Manufacturer of part)
- (b) Manufactured for GENERAL ELECTRIC CO., SAN JOSE, CAL  
(Name and address of Manufacturer of completed nuclear component)
- 2. Identification-Manufacturer's Serial No. of Part PN 11521 Nat'l Bd. No. ---
- (a) Constructed According to Drawing No. E17897, R24 Drawing Prepared by VOGT VALVE CO.
- (b) Description of Part Inspected GATE, MATERIAL CODE WAS SA479 T410 (CHEM ONLY)
- (c) Applicable ASME Code: Section III, Edition 1989, Addenda date NONE, Case No. NONE Class 1
- 3. Remarks: REPLACEMENT GATE FOR 1/2, 3/4" LINE VALVES  
(Brief description of service for which component was designed)

ORDER 217395 - 60 PIECES

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

Date 5/15/ 19 97 Signed VOGT VALVE CO. By Barbara Bringer  
(Manufacturer)

Certificate of Authorization Expires 1/6/99 Certificate of Authorization No. N-948

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of KENTUCKY and employed by COMMERCIAL UNION INS. CO. of BOSTON, MA have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 5/9 19 97, and state that to the best of my knowledge and belief, the Manufacturer, has constructed this part in accordance with the ASME Code Section III.

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

Date May 15 19 97

Robert E. Murphy Commissions KY 254  
Inspector's Signature National Board, State, Province and No.

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



MAY 21 1997

RIR 97-0092

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

As required by the Provisions of the ASME Code Rules

- 1. (a) Manufactured by Henry Vogt Machine Co., Louisville, KY  
(Name and address of Manufacturer of part)
- (b) Manufactured for General Electric, San Jose, CA  
(Name and address of Manufacturer of completed nuclear component)
- 2. Identification-Manufacturer's Serial No. of Part PN 11521 Nat'l Bd. No. \_\_\_\_\_
- (a) Constructed According to Drawing No. E17897, R24 Drawing Prepared by Henry Vogt Machine Co.
- (b) Description of Part Inspected Replacement gate for 1/2-3/4" gate Valve
- (c) Applicable ASME Code: Section III, Edition 1989, Addenda date None, Case No. --- Class 1
- 3. Remarks: Material Code WAS - SA182F6a (Chemistry only)  
(Brief description of service for which component was designed)

SA182F6a  
1/16/97  
1/16/97

Order 217350 - 30 pieces

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

Date 1/14 1997 Signed Henry Vogt Mach. Co. *[Signature]*  
(Manufacturer)

Certificate of Authorization Expires 1/6/99 Certificate of Authorization No. N-948

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Kentucky and employed by Commercial Union Ins. Co. of Boston, MA have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on Jan 14 1997, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

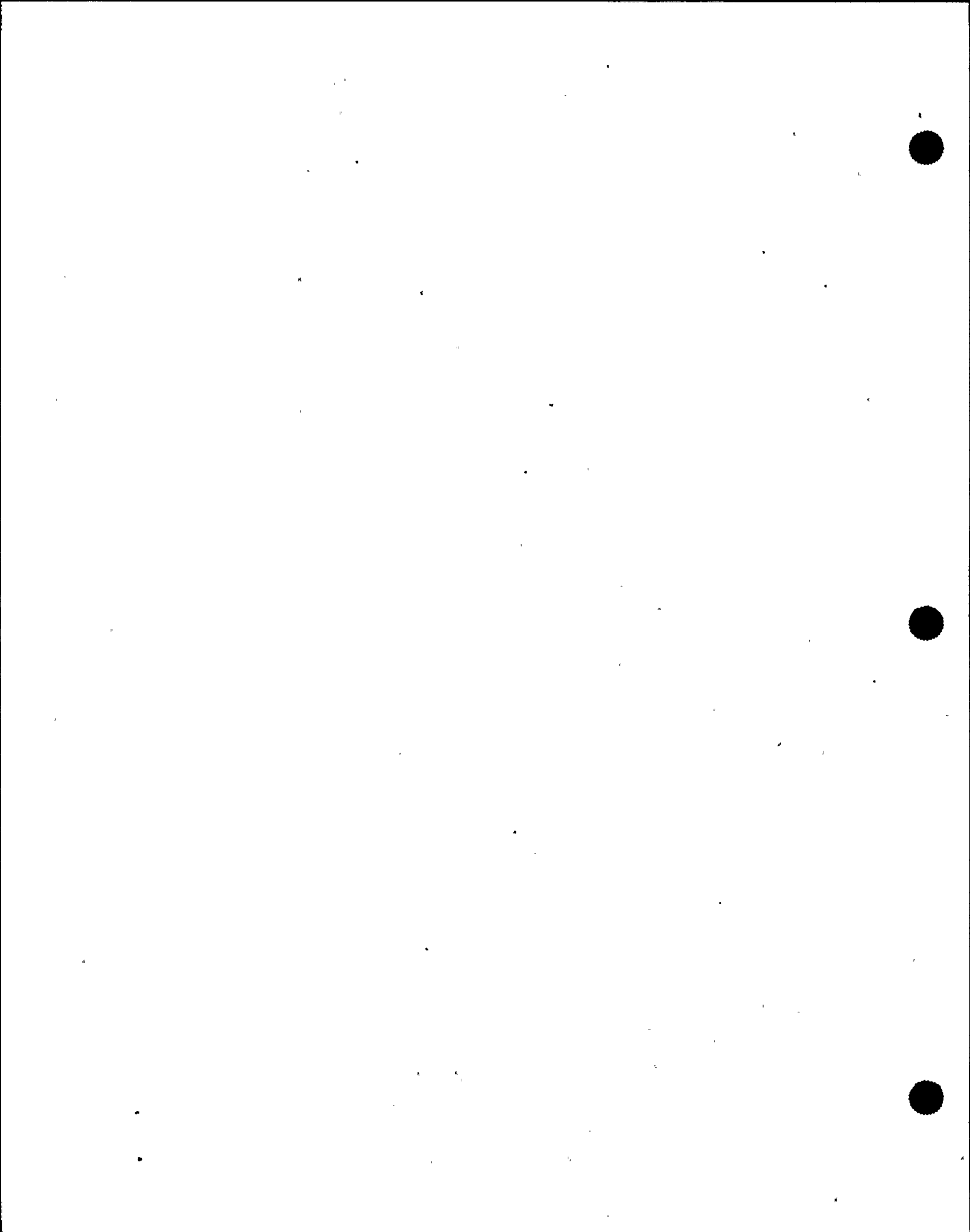
Date Jan 14 1997

*[Signature]*  
Inspector's Signature

Commissions Ky 254 National Board, State, Province and No.

GE 159  
1/16/97

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



FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

6/1/96 [Signature]

- 1. (a) Manufactured by Henry Vogt Machine Co., Louisville, KY  
(Name and address of Manufacturer of part)
- (b) Manufactured for General Electric, San Jose, CA  
(Name and address of Manufacturer of completed nuclear component)
- 2. Identification-Manufacturer's Serial No. of Part PN 11563A Nat'l Bd. No. ---
- (a) Constructed According to Drawing No. E40508, R16 Drawing Prepared by Henry Vogt Machine Co
- (b) Description of Part Inspected Replacement gate - material code WAS - SA479TH10  
(chemist)
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda date W'71, Case No. --- Class 1
- 3. Remarks: For use in 1" gate valve, drawing B-46033  
(Brief description of service for which component was designed)

Order 217236 - 11 pieces

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

Date 5/20 19 96 Signed Henry Vogt Machine Co. by [Signature]  
(Manufacturer)

Certificate of Authorization Expires 1/6/99 Certificate of Authorization No. N-948

CERTIFICATION OF DESIGN FOR APPURTENANCE (where applicable)

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspector and/or the State or Province of Kentucky and employed by Commercial Union Ins. Co. of Boston, MA have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on April 24 19 96, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date May 20 19 96  
[Signature] Inspector's Signature  
Commissions Ky 254 National Board, State, Province and No.

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



5  
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FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

6/4/96 [Signature]

- 1. (a) Manufactured by Henry Vogt Machine Co., Louisville, KY  
(Name and address of Manufacturer of part)
- (b) Manufactured for General Electric, San Jose, CA  
(Name and address of Manufacturer of completed nuclear component)
- 2. Identification-Manufacturer's Serial No. of Part PN 11563A Nat'l Bd. No. ---
- (a) Constructed According to Drawing No. E40508, R16 Drawing Prepared by Henry Vogt Machine Co.
- (b) Description of Part Inspected Replacement gate material code WAS - SAH79TH10 - SA18376 (chemistry on BAR 6/1/96 PERM 4/17/96)
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda date W'71, Case No. --- Class 1
- 3. Remarks: For use in 1" gate valve, drawing B-46033  
(Brief description of service for which component was designed)

Order 217236 - 11 pieces

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

Date 5/20 19 96 Signed Henry Vogt Machine Co. U.S. [Signature]  
(Manufacturer)  
Certificate of Authorization Expires 1/6/99 Certificate of Authorization No. N-948

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Kentucky and employed by Commercial Union Ins. Co. of BOBON, MA have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on April 24 19 96, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

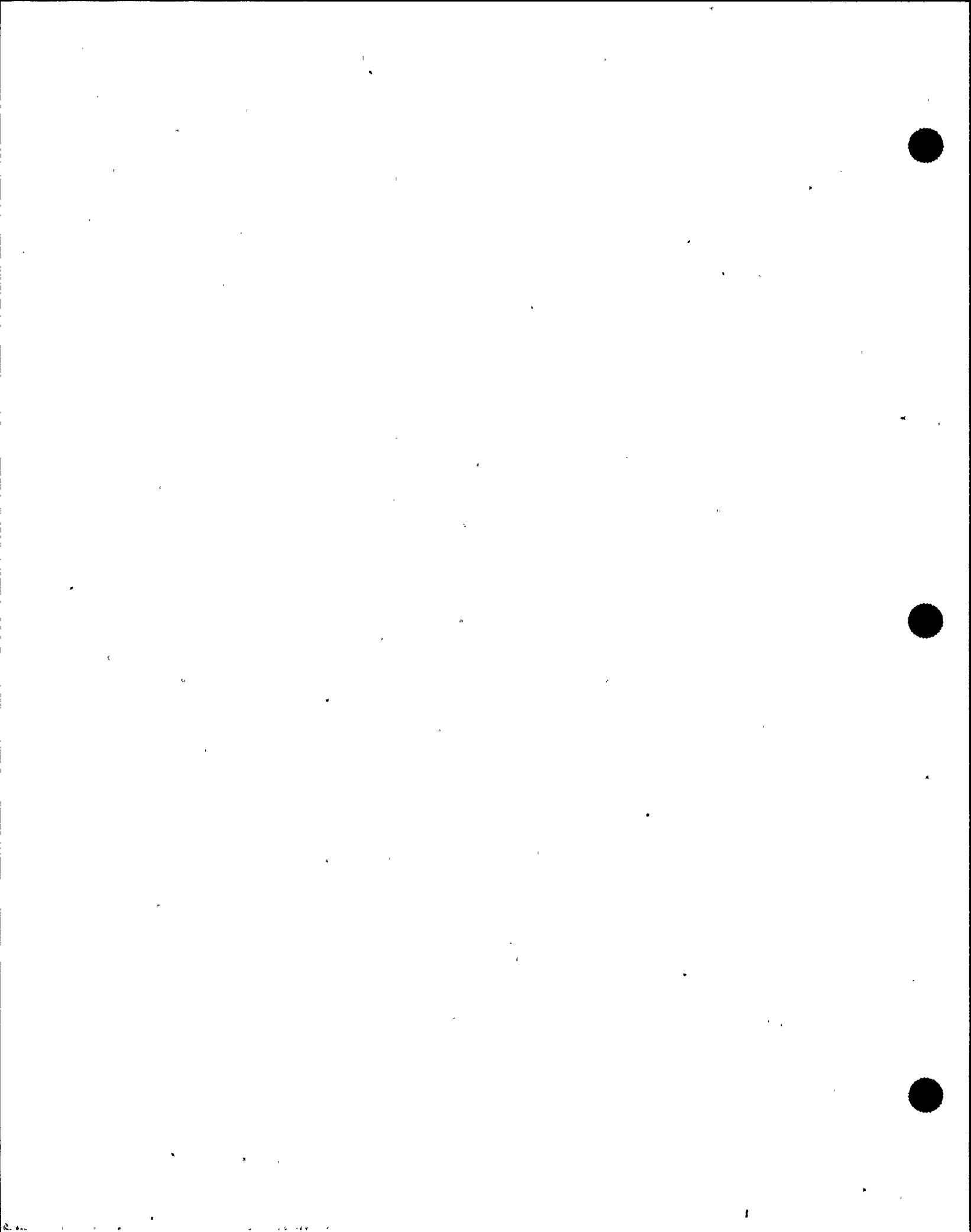
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property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

Date May 20 19 96

[Signature] Commissions Ky 254  
Inspector's Signature National Board, State, Province and No.

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





FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES

As required by the Provisions of the ASME Code Rules

- 1. (a) Manufactured by Henry Vogt Machine Co., Louisville, KY  
(Name and address of Manufacturer of part)
- (b) Manufactured for General Electric Co., San Jose, CA  
(Name and address of Manufacturer of completed nuclear component)
- 2. Identification-Manufacturer's Serial No. of Part PN 11521 Nat'l Id. No. ----
- (a) Constructed According to Drawing No. E-17897, R19 Drawing Prepared by Henry Vogt Machine Co.
- (b) Description of Part Inspected 3/4" Gate - SA 479 T410 (Chem.Only) Material Codes IVA, A2, C262
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda date S'71, Case No. ---- Class 1
- 3. Remarks: Replacement parts for 3/4" Gate Valve  
(Brief description of service for which component was designed)

13 Pcs. - Lab Code C-262  
9 Pcs. - Lab Code . 2  
3 Pcs. - Lab Code IVA

Vogt Order 215412

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

Date July 23 19 86 Signed Henry Vogt Machine Co. By Barbara Briggs  
(Manufacturer)  
 Certificate of Authorization Expires 1/6/87 Certificate of Authorization No. N-948

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file as \_\_\_\_\_  
 Stress analysis report on file as \_\_\_\_\_  
 Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_  
 Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

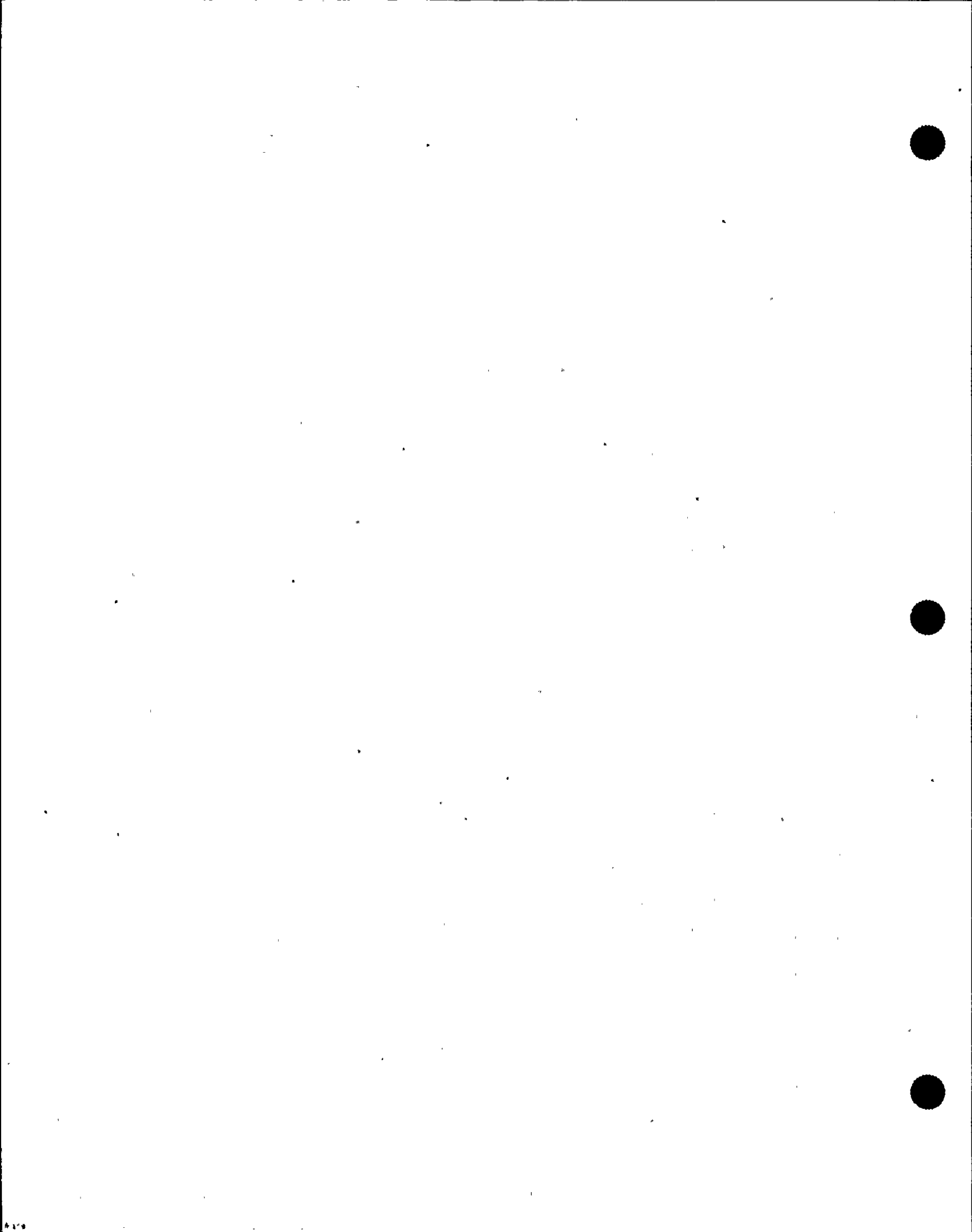
CERTIFICATE OF SIOP INSPECTION

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 Kentucky and employed by Commercial Union Ins. Co. of Boston, MA have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on July 21, 19 86, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date July 23, 19 86  
Donald P. McDaniel Commissions Kentucky #875  
Inspector's Signature National Board, State, Province and No.

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

110  
 7/23/86  
 REC 22-86



FORM N-2 (back)

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. or 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	Non-spherical Radius	Flat Diameter	Side to Proc. (Conv. or Conc.)
(a)	_____	_____	_____	_____	_____	_____	_____	_____
(b)	_____	_____	_____	_____	_____	_____	_____	_____

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

7. Jacket Closure: \_\_\_\_\_  
(Describe as gage and weld, bar, etc. If bolts: a dimension, if bolted, describe or sketch)

8. Design pressure<sup>2</sup> \_\_\_\_\_ psi at \_\_\_\_\_ °F

Drop Weight \_\_\_\_\_  
 Charpy Impact \_\_\_\_\_ ft-lb  
 at temp. of \_\_\_\_\_ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material \_\_\_\_\_ Dia. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
(Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Flanging. Material \_\_\_\_\_ Dia. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_

10. Tubes: Material \_\_\_\_\_ O.D. \_\_\_\_\_ in. Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_  
(Kind or Spec. No.) (Subject to pressure) (Welded, Bolted)

Items 11-14 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. or Range Specified)

12. Seams: Long \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ Efficiency \_\_\_\_\_ %

Girth \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ No. of Courses \_\_\_\_\_

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

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Non-spherical Radius	Flat Diameter	Side to Proc. (Conv. or Conc.)
(a) Top, bottom, ends	_____	_____	_____	_____	_____	_____	_____	_____
(b) Channel	_____	_____	_____	_____	_____	_____	_____	_____

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

14. Design pressure<sup>2</sup> \_\_\_\_\_ psi at \_\_\_\_\_ °F

Drop Weight \_\_\_\_\_  
 Charpy Impact \_\_\_\_\_ ft-lb  
 at temp. of \_\_\_\_\_ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

16. Nozzles

Purpose (Inlet, Outlet, Drain)	Number	Dia. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

17. Inspection Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

Openings: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

18. Supports: Skirt \_\_\_\_\_ Lugs \_\_\_\_\_ (Number) \_\_\_\_\_ Other \_\_\_\_\_ (Describe) Attached \_\_\_\_\_ (Bolted & How)

<sup>1</sup> If Postweld Heat-Treated.  
<sup>2</sup> List other internal or external pressure with controlling temperature when applicable.

1. *101*

10. DISCREPANCY

Purchase Order invokes specification M-164 Rev. 3 which requires the  
bits, to be built to ASME B74 GR 630 1974 Edition through 1975  
ASME B74 GR 630 1983 Edition. The bits were built to ASME B74 GR 630 1983 Ed.

11. REPORTABILITY

YES  NO

12. DISAPPROVAL

14. DISPOSITION CONCURRENCE

13. DISPOSITION RESULTS/ACTION TAKEN

Disposition "as is" removed and found acceptable.  
No further action required - this KWR is closed & destroyed.

16. RECEIPT INSPECTION ACCEPTANCE



**DRAGON VALVES, INC.**

13457 EXCELSIOR DRIVE • NORWALK, CALIFORNIA 90650  
CABLE ADDRESS DRAGONVALVE NORWALK

713-921-6605  
213-773-3883

CERTIFICATE OF COMPLIANCE

SOLD TO: Pennsylvania Power & Light Co.  
2 North Ninth Street  
Allentown, PA. 18101

DATE: August 6, 1984

PO #: 2-85142-1

SHIP TO: Pennsylvania Power & Light Co.  
Susquehanna Steam Electric Station  
ATTN: Material Supervisor  
5 Miles N/E of Berwick, PA. 18603  
on US Route 11 North

\* REF: Change Order Notice  
Supplement #1

7/24/84

We certify that the listed equipment and required documentation for same meet the requirements of the purchase order and applicable specifications. We further certify that the stem material used in the below listed items conforms to ASME SA479, Type 316.

<u>ITEM NO.</u>	<u>QTY.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	20	10649-3	Valve, S/N EM3101 thru EM3120
2	50	2-13502-S27	Stem Assembly
8	20	10649-5	Valve, S/N EM3121 thru EM3140
9	50	2-13502-S27	Stem Assembly

DRAGON VALVES, INC.

By Kim D. Haggart  
Kim D. Haggart

Title Q. A. Manager

8514030790

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

1. Owner Pennsylvania Power & Light Co. Date 8/26/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 3  
Address  
 2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.  
 3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System PRIMARY CONTAINMENT ISOLATION NSSS, 159B, CLASS MC.  
 5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, SEE SEC 9 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 '92 ADD. (IWE)  
 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)
-------------------	----------------------	-------------------------	--------------------	----------------------	------------	------------------------------------	-------------------------------

1) EQUIPMENT HATCH (GASKET)	CB&I	N/A	N/A	X-001	1975	REPLACED	YES
2) EQUIPMENT HATCH (GASKET)	PP&L	N/A	N/A	X-001	1997	REPLACEMENT	NO
3) SUPP. POOL A HATCH (GASKET)	CB&I	N/A	N/A	X-200A	1975	REPLACED	YES
4) SUPP. POOL A HATCH (GASKET)	PP&L	N/A	N/A	X-200A	1997	REPLACEMENT	NO
5) SUPP. POOL B HATCH (GASKET)	CB&I	N/A	N/A	X-200B	1975	REPLACED	YES
6) SUPP. POOL B HATCH (GASKET)	PP&L	N/A	N/A	X-200B	1997	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LIST.  
 8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  SEE SHEET 3  
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks ALL PENETRATIONS AND HATCHES ORIGINAL DESIGN PER ASME III NE 1971 WITH

Applicable Manufacturer's Data Reports to be attached

SUMMER '72 ADD. CODE CASES 1493,1522,1563,1567,1571.

REPLACEMENT GASKETS ARE NON-CODE.

CERTIFICATION 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 N/A

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

Signed: [Signature] Date Aug 28, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD MASS. have inspected the components described in this Owner's Report during the period APRIL 5 1997 to MAY 19 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

FACTORY MUTUAL ENGRG. ASSOC.

Commissions: NB 7525 / BNA PA 2159  
National Board, State, Province, and Endorsements

Date Aug 28 1998 19 98

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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     8/26/98                    

Sheet           2           of           3          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     ONE                    

                    SEE ATTACHED LIST                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Type Code Symbol Stamp                     None                    

Authorization No.                     N/A                    

Expiration Date                     N/A                    

4. Identification of System                     PRIMARY CONTAINMENT ISOLATION NSSS, 159B, CLASS MC.                    

5. (a) Applicable Construction Code           III           19   71   Edition,           thru W72           Addenda,           SEE SEC 9           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19   92           '92 ADD. OF IWE

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)
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7) SUPP. POOL B HATCH (GASKET)	CB&I	N/A	N/A	X-200B	1975	REPLACED	YES
8) SUPP. POOL B HATCH (GASKET)	PP&L	N/A	N/A	X-200B	1997	REPLACEMENT	NO
9) CONTAINMENT HEAD (GASKET)	CB&I	N/A	N/A	N/A	1975	REPLACED	YES
10) CONTAINMENT HEAD (GASKET)	PP&L	N/A	N/A	N/A	1997	REPLACEMENT	NO
11) CRD HATCH (GASKET)	CB&I	N/A	N/A	X-006	1975	REPLACED	YES
12) CRD HATCH (GASKET)	PP&L	N/A	N/A	X-006	1997	REPLACEMENT	NO
13) EQUIPMENT HATCH (GASKET)	CB&I	N/A	N/A	X-001	1975	REPLACED	YES
14) EQUIPMENT HATCH (GASKET)	PP&L	N/A	N/A	X-001	1997	REPLACEMENT	NO

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

1. Owner Pennsylvania Power & Light Co. Date 8/15/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 3 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System PRIMARY CONTAINMENT ISOLATION NSSS, 159B, CLASS MC.

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W72 Addenda, SEE SEC 9 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 '92 ADD OF IWE

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	H50253	REMOVE AND REINSTALL EQUIPMENT HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-001 temp : ambient / press 45 psig
3-4	H50262	REMOVE AND REINSTALL SUPPRESSION POOL "A" HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-015 temp : ambient / press 45 psig
5-6	H50263	REMOVE AND REINSTALL SUPPRESSION POOL "B" HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-016 temp : ambient / press 45 psig
7-8	H60488	REMOVE AND REINSTALL SUPPRESSION POOL "B" HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-016 temp : ambient / press 45 psig
9-10	H50273	REMOVE AND REINSTALL CONTAINMENT HEAD USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-259-004 temp : ambient / press 45 psig
11-12	H70229	REMOVE AND REINSTALL CRD HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-159-005 temp : ambient / press 45 psig
13-14	H70220	REMOVE AND REINSTALL EQUIPMENT HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-159-001 temp : ambient / press 45 psig

1. Work performed by PP& L Inc. WIA # P71746  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit identification: PRESSURE VESSEL Name of original manufacturer CARRIER  
(boiler, pressure vessel)

5. Identifying nos: 700474 142594 PA469443 OK325B 1979  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION  
(use back, separate sheet, or sketch if necessary)

ASME CODE FORM 98-065-001 : WELD REPAIR VARIOUS AREAS OF CORROSION.

ASME CODE FORM 98-065-002 : FABRICATE AND INSTALL INTERNAL BAFFLE PLATE BY WELDING.

ASME CODE FORM 98-065-004 : FABRICATE AND INSTALL NEW BAFFLE PLATE GUIDES BY WELDING.

ASME CODE FORM 98-065-005 : REMOVE AND INSTALL NEW 1/4" VENT COUPLING BY WELDING.

Pressure test, if applied \* 90 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.

\* NDE PERFORMED ON FINAL WELD. PRESSURE TEST ON SERVICE WATER SYSTEM AT NORMAL OPERATING PRESSURE OF 90 PSI.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19\_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A

, 19\_\_\_\_

Date 9/30, 1998 Signed \_\_\_\_\_ PP&L, Inc  
(name of alteration organization) Supy - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on APRIL 17, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date OCT. 2, 1998 Signed \_\_\_\_\_ Commissions NB7525 1BNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

1. Work performed by PP& L Inc. W/A # P70444  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit identification: HEAT EXCHANGER Name of original manufacturer STRUTHERS WELLS GULFPORT, INC.  
(boiler, pressure vessel)

5. Identifying nos: 06-31764-1 1738 PA469333 1E201A 1975  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION  
(use back, separate sheet, or sketch if necessary)  
ASME CODE FORM 97-114-001 : WELD REPAIR HEAT EXCHANGER END PLATE.  
ASME CODE FORM 97-114-002 : WELD REPAIR HEAT EXCHANGER END BELL.  
ASME CODE FORM 97-114-003 : WELD REPAIR HEAT EXCHANGER WATER BOX.  
ASME CODE FORM 97-114-004 : REMOVE AND REPLACE END BELL BAFFLE PLATE AND MACHINE/GRIND THE GASKET SEATING SURFACE.

Pressure test, if applied \* 130/65 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report  
N/A  
(name of part, item number, mfr's name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.  
\* NDE PERFORMED ON FINAL REPAIR. TESTING PERFORMED AT NORMAL OPERATING PRESSURE; SERVICE WATER 130 PSI AND REACTOR BUILDING CLOSED COOLING WATER 65 PSI

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19 \_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A, 19 \_\_\_\_

Date 9/30, 19 98 Signed \_\_\_\_\_  
(name of alteration organization) Supy - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on JAN 1, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date OCT. 2, 1998 Signed \_\_\_\_\_ Commissions NB 7525 1BNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

1. Work performed by PP& L Inc. WIA # P74302  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit identification: HEAT EXCHANGER Name of original manufacturer STRUTHERS WELLS GULFPORT, INC.  
(boiler, pressure vessel)

5. Identifying nos: 06-31764-2 1739 PA469334 1E201B 1975  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION  
(use back, separate sheet, or sketch if necessary)  
ASME CODE FORM 98-114-001 : WELD REPAIR HEAT EXCHANGER END BELL & PLATE AND WATER BOX.  
ASME CODE FORM 98-114-002 : REMOVE AND REPLACE BOLTING IN KIND.  
ASME CODE FORM 98-114-003 : REMOVE AND REPLACE HEAT EXCHANGER BAFFLE PLATE.

Pressure test, if applied \* 130/65 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.  
\* NDE PERFORMED ON FINAL REPAIR. TESTING PERFORMED AT NORMAL OPERATING PRESSURE; SERVICE WATER 130 PSI AND REACTOR BUILDING CLOSED COOLING WATER 65 PSI



DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19 \_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A, 19 \_\_\_\_

Date 9/30, 1998 Signed \_\_\_\_\_  
(name of alteration organization) (Authorized Inspector) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on APRIL 17, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date OCT. 2, 1998 Signed \_\_\_\_\_ Commissions NB 7525 1BNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

1. Work performed by PP& L Inc. W/A # P70443  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit Identification: HEAT EXCHANGER Name of original manufacturer STRUTHERS WELLS GULFPORT, INC.  
(boiler, pressure vessel)

5. Identifying nos: 06-31763-1 2067 PA480813 1E123A 1974  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION  
(use back, separate sheet, or sketch if necessary)  
ASME CODE FORM 98-115-003 : WELD REPAIR HEAT EXCHANGER END BELL AND WATER BOX.

Pressure test, if applied \* 150/75 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.  
\* NDE PERFORMED ON FINAL REPAIR. TESTING PERFORMED AT NORMAL OPERATING PRESSURE; SERVICE WATER 150 PSI AND TURBINE BUILDING CLOSED COOLING WATER 75 PSI

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19 \_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A

, 19\_\_\_\_

Date 9/30, 1998 Signed \_\_\_\_\_  
PP&L, Inc (name of alteration organization) Symp - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on MARCH 9, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date OCT 2, 1998 Signed \_\_\_\_\_ Commissions NB 7525 IBNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

FORM R-1, REPORT OF WELDED  REPAIR OR  ALTERATION  
as required by the provisions of the National Board Inspection Code

115

1. Work performed by PP& L Inc. W/A # P71852  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit identification: HEAT EXCHANGER Name of original manufacturer STRUTHERS WELLS GULFPORT, INC.  
(boiler, pressure vessel)

5. Identifying nos: 06-31763-2 2068 PA480814 1E123B 1974  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION  
(use back, separate sheet, or sketch if necessary)  
ASME CODE FORM 98-115-001 : WELD REPAIR WEST END COVER PLATE AND EAST END COVER PLATE  
DIVIDER BAR.  
ASME CODE FORM 98-115-002 : REPLACE STUDS DUE TO A LACK OF TRACEABILITY

Pressure test, if applied \* 150/75 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report  
N/A  
(name of part, item number, mfr's name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.  
\* NDE PERFORMED ON FINAL REPAIR. TESTING PERFORMED AT NORMAL OPERATING PRESSURE; SERVICE WATER 150 PSI AND TURBINE BUILDING CLOSED COOLING WATER 75 PSI.

**DESIGN CERTIFICATION**

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19\_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

**CERTIFICATE OF REVIEW OF DESIGN CHANGE**

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

**CONSTRUCTION CERTIFICATION**

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. N/A to use the N/A symbol expires N/A, 19\_\_\_\_

Date 9/30, 1998 Signed \_\_\_\_\_  
(name of alteration organization) PP&L, Inc Supr - Site Modifications Group

**CERTIFICATE OF INSPECTION**

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on JAN. 26, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date OCT. 2, 1998 Signed \_\_\_\_\_ Commissions NB 7525 18NA AA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

1. Work performed by PP& L Inc. WIA # P64060  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit identification: HEAT EXCHANGER Name of original manufacturer CARRIER  
(boiler, pressure vessel)

5. Identifying nos: 700205 129861 PA469359 1K206B 1976  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION  
(use back, separate sheet, or sketch if necessary)

ASME CODE FORM 97-134-013 : WELD REPAIR HEAT EXCHANGER WATER BOX SHELL TO FLANGE WELD.

Pressure test, if applied NONE psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.  
NDE PERFORMED IN LIEU OF PRESSURE TEST.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19\_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR (repair or alteration) conform to the National Board Inspection Code.

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A

, 19\_\_\_\_

Date 9/30, 1998 Signed \_\_\_\_\_ PP&L, Inc  
(name of alteration organization) Supp. Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on FEB. 12, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date OCT 2, 1998 Signed \_\_\_\_\_ Commissions NB 7525 IBNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

1. Work performed by PP& L Inc. W/A # P70883  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit identification: PRESSURE VESSEL Name of original manufacturer AMERICAN STANDARD  
(boiler, pressure vessel)

5. Identifying nos: 3-66398-01-3 24906 PA460990 1E126A 1973  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION  
(use back, separate sheet, or sketch if necessary)

ASME CODE FORM 98-164-003 : WELD REPAIR WATER BOX AND MACHINE TO ORIGINAL CONFIGURATION.

Pressure test, if applied \* 145 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report

N/A

(name of part, item number, mfr's name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.  
\* NDE PERFORMED ON FINAL REPAIR. TESTING PERFORMED AT NORMAL OPERATING PRESSURE; SERVICE WATER SYSTEM 145 PSI.



DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19 \_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A, 19 \_\_\_\_

Date 9/30, 1998 Signed \_\_\_\_\_  
(name of alteration organization) (Authorized Inspector) Supply - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS. has inspected the work described in this report on MAY 19, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date OCT. 2, 1998 Signed \_\_\_\_\_ Commissions NB 7525 IBNA PA2459  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

1. Work performed by PP& L Inc. W/A # P70884  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit identification: PRESSURE VESSEL Name of original manufacturer AMERICAN STANDARD  
(boiler, pressure vessel)

5. Identifying nos: 3-66398-01-2 24905 PA460991 1E126B 1973  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: HEAT EXCHANGER REPAIR DUE TO EROSION/CORROSION  
(use back, separate sheet, or sketch if necessary)

ASME CODE FORM 98-164-004 : WELD REPAIR BOTH WATER BOXES AND MACHINE TO ORIGINAL CONFIGURATION.

Pressure test, if applied \* 145 psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report

N/A  
(name of part, item number, mfr's name and identifying stamp)

8. Remarks: HEAT EXCHANGER HAS BEEN RESTORED TO ORIGINAL CONFIGURATION.  
\* NDE PERFORMED ON FINAL REPAIR. TESTING PERFORMED AT NORMAL OPERATING PRESSURE; SERVICE WATER SYSTEM 145 PSI.

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19\_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this REPAIR conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A

, 19\_\_\_\_

Date 9/30, 1998 Signed \_\_\_\_\_  
PP&L, Inc (name of alteration organization) Supv. Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on MAY 22, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date OCT 2, 1998 Signed David Cloutman Commissions NB 7525 / BNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

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

1. Owner Pennsylvania Power & Light Co. Date 8/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 3 of 3  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Reactor Water Cleanup System, 161A, Class 3

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden. CODE CASE N416-1

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)
1) 1/2" Ball Valve	Hills McCanna	VALVE S/N 222-673	N/A	HV14512B	N/A	REPLACED	YES
1/2" Ball Valve	BNL Indus.	BALL S/N A960201-2-3	N/A	HV14512B	1996	REPLACEMENT	YES
2) 1/2" Vent Valve	BNL Indus.	VALVE S/N A960201-2-1	N/A	HV14512A	1996	REPLACED	YES
1/2" Vent Valve	BNL Indus.	BALL S/N A961204-2-2	N/A	HV14512A	1997	REPLACEMENT	YES
3) 2" Ball Valve	Hills McHanna	VALVE S/N 31-973	N/A	145030B	N/A	REPLACED	YES
2" Ball Valve	Hills McCanna	VALVE S/N 212-380	N/A	145030B	1980	REPLACEMENT	YES

7. Description of Work Replaced Valves/Replaced Valve Ball/Replaced Pipe Support U-Bolt.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 3  
 Other  Pressure 1215 psi Test Temp. 100 °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED. ORIGINAL CONSTRUCTION CODES FOR HILLS McCANNA VALVE HV14512B  
Applicable Manufacturer's Data Reports to be attached  
IS 1968 PUMP AND VALVE CODE. REPLACEMENT CODE FOR HILLS McCANNA VALVES IS ASME SEC. III, 1974 ED. NO ADD.  
ORIGINAL AND REPLACEMENT CODES FOR BNL IND. IS ASME SEC. III, 1974 ED. NO ADD. HILLS McCANNA VALVE S/N 212-  
380 REPLACEMENT CODE IS ASME SEC. III CL-3 1977 ED. ORIGINAL CONSTRUCTION CODE FOR McCANNA VALVE 145029B  
IS PUMP AND VALVE CODE 1968 ED. WITH MARCH 1970 ADD.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Sept 30, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period JUNE 14, 1998 to MAY 29 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 1BNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements  
Date SEPT. 30 1998

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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     8/28/98                      
 Sheet           2           of           3          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                      
 See Sheet 3 of 3  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

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

4. Identification of System                     Reactor Water Cleanup System 161A, Class 3                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.           CODE CASE N416-1

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)
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4) 1/2" Ball Valve	McCanna	VALVE S/N 102-1173	N/A	145029B	N/A	REPLACED	YES
1/2" Ball Valve	BNL	BALL S/N A960201-1-3	N/A	145029B	1996	REPLACEMENT	YES
5) Pipe Support	BECHTEL	N/A	N/A	SP-EBC-107-H2008	1982	REPLACED	NO
Pipe Support	PP&L	N/A	N/A	SP-EBC-107-H2008	1998	REPLACEMENT	NO







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

corrected  
7/18/96

1. Manufactured and certified by BNL INDUSTRIES, INC, 30 INDUSTRIAL PARK RD, VERNON CT 06066  
(name and address of N Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT, TWO NORTH NINTH ST, ALLENTOWN PA 18101  
(name and address of Purchaser)

3. Location of installation P P & L, SUSQUEHANNA, RTE 11, BERWICK PA 18603  
(name and address)

4. Model No., Series No., or Type valve Drawing A HEV-A2-04-0061 Rev. B CRN \_\_\_\_\_  
*7/15/96*

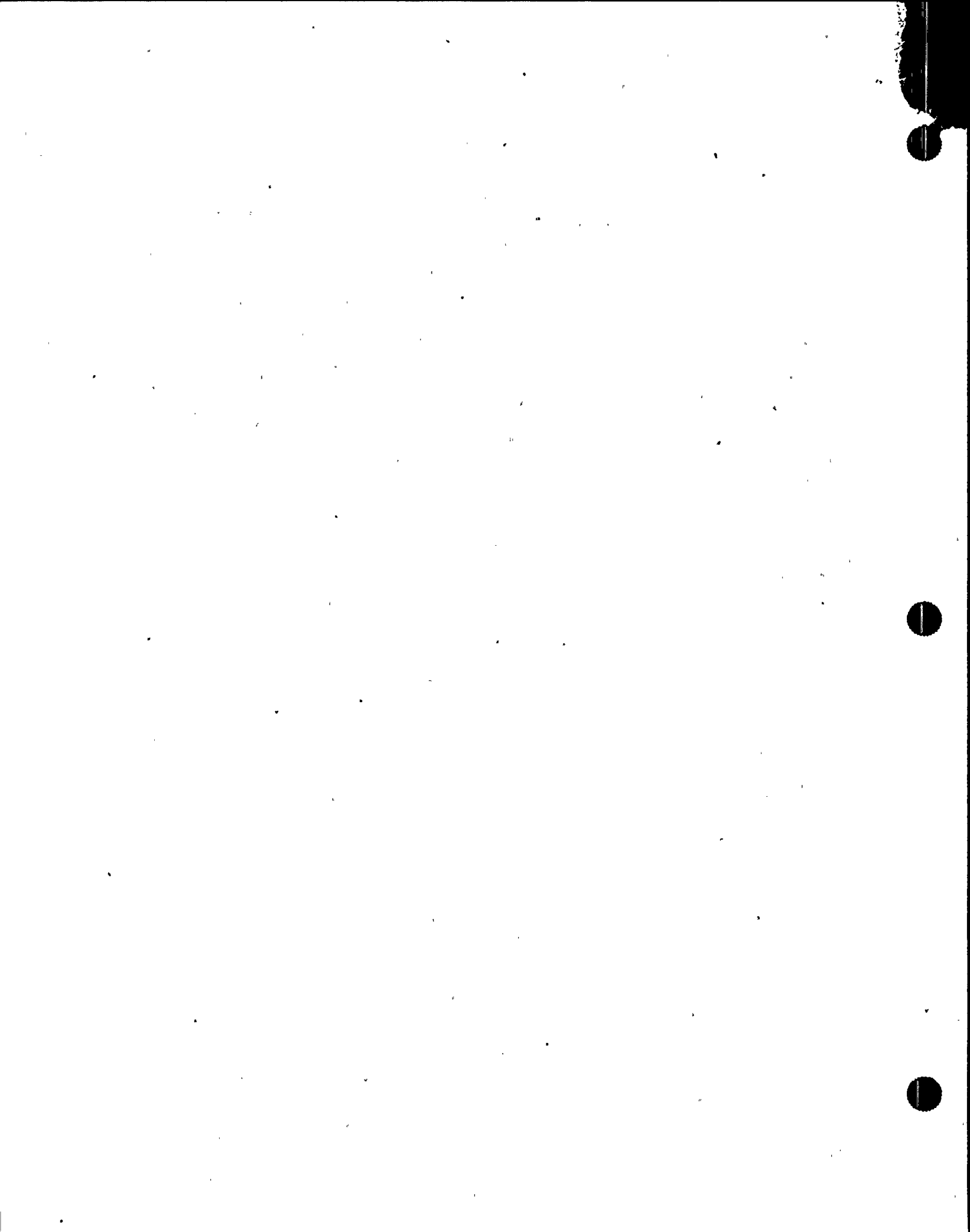
5. ASME Code, Section III, Division 1: 1974 (edition) 3 (addenda date) 3 (class) \_\_\_\_\_ (Code Case no.)

6. Pump or valve valve Nominal inlet size 1/2" (in.) Outlet size 1/2" (in.)

7. Material: Body SA 105 Bonnet SA 105 Disk SA 479 Ty 316 Bolting SA193GrB7/SA194Gr2H

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A960201-2-1		K23-1	K23-2	K72
A960201-2-2		K23-1	K23-2	K72
A960201-2-3		K23-1	K2B-2	K72
A960201-2-4		K23-1	K23-2	K72

\* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



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

Certificate Holder's Serial No. A960201-2-(1 thru

- 8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 600# (1)  
(pressure) (temperature)
- 9. Cold working pressure 1405PSI @ 150F  
OR PRESSURE OR TEMPERATURE
- 10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi

11. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CERTIFICATION OF DESIGN

Design Specification certified by J.G. Shallenberger P.E. State PA Reg. no. 19551E  
Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 6/27/96 Name BNL INDUSTRIES, INC. Signed [Signature]  
(N Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by COMMERCIAL UNION INS. CO. of ROSLINDEN MASS. have inspected the pump, or valve, described in this Data Report on 6-27-96, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 6-27-96 Signed [Signature] Commissions CT 1343  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.



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

1. Manufactured by Hills McCanna Company, 400 Maple Ave., Carpentersville, IL 60110  
(Name and Address of Manufacturer)
2. Manufactured for General Electric Co., 175 Curtner Ave., San Jose, Calif. 95125  
(Name and Address of Purchaser or Owner)
3. Location of Installation Public Service Co. of OK, Black Fox Station Unit 2, Inola, OK 74036  
(Name and Address)
4. Pump or Valve Ball Valve Nominal Inlet Size 2" Outlet Size 2"  
(Inch)

(a) Model No. Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) NPT Bd. No.	(g) Year Built
(1) 2" S603	212-380	/.	CBVA-2475	3	/.	1980
(2) CS-R-S6	213-380	/.	CBVA-2475	3	/.	1980
(4)	214-380	/.	CBVA-2475	3	/.	1980
(5)	215-380	/.	CBVA-2475	3	/.	1980
(6)	216-380	/.	CBVA-2475	3	/.	1980
(7)						
(8)						
(9)						
(10)						

5. Filter, Demineralizer, Ball Valves.  
(Brief description of service for which equipment was designed)

6. Design Conditions 1410 psi 150 °F or Valve Pressure Class 600 (1)
7. Cold Working Pressure 1410 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
Body 229-0234	SA216 Gr. WCB	Lebanon Steel	SN 1077-282 Ht. 9519W7
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-49 Ht. WJ737
Body 229-0234	SA216 Gr. WCB	PRL Industries	SN 1079-20 Ht. WJ546
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-56 Ht. WJ733
Body 229-0234	SA216 Gr. WCB	PRL Industries	SN 1079-21 Ht. WJ563
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-77 Ht. WJ742
Body 229-0234	SA216 Gr. WCB	Lebanon Steel	SN 1077-253 Ht. 9519W4
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-55 Ht. WJ743
Body 229-0234	SA216 Gr. WCB	PRL Industries	SN 1079-29 Ht. WJ562
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-50 Ht. WJ757
<b>(b) Forgings</b>			

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

COH 2  
11-1-51

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Stud 229-3305	SA193 Gr. B7	Victor Products	Markings: "VB7 DG"
Nut 919-2409	SA194 Gr. 2H	Nuts, Inc.	Markings: "NWB"
(d) Other Parts			
Ball 229-0746	SA479 Type 316	Ryerson	Markings: "EGA"

9. Hydrostatic test 2225 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1977, Addenda 1, Code Case No. 1, Date 10-20-81.  
 Signed Hills McCanna Company by Thomas H. Hallant  
 Our ASME Certificate of Authorization No. N-2495 to use the N symbol expires 7-17-84  
(Date) (N) (NFV) (Date)

CERTIFICATION OF DESIGN

Design information on file at Hills McCanna Company  
 Stress analysis report (Class 1 only) on file at N/A  
 Design specifications certified by (1) Rex P. Vaught  
 PE State Calif. Reg. No. M14039  
 Stress analysis certified by (1) N/A  
 PE State Calif. Reg. No. 1  
 (1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by Lumbermens Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 10-29-1981, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  
 Date 10-29-1981 R.D. Jumper Commissions Ill. 919  
(Inspector) (Nat'l Bd., State, Prov. and No.)



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

1. Manufactured and certified by EHL INDUSTRIES, INC, 30 INDUSTRIAL PARK RD, VERNON CT 06066  
(name and address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT, TWO NORTH NINTH ST, ALLENTOWN PA 18101  
(name and address of Purchaser)
3. Location of installation P P & L, SUSQUEHANNA, RTE 11, BERWICK PA 18603  
(name and address)
4. Model No., Series No., or Type valve Drawing HBV A2-04-0062 Rev. B CRN \_\_\_\_\_
5. ASME Code, Section III, Division 1: 1974 - 3  
(edition) (addenda date) (class) (Code Case no.)
6. Pump or valve valve Nominal inlet size 1/2" Outlet size 1/2"  
(in.) (in.)
7. Material: Body SA 105 Bonnet SA 105 Disk SA 479 Ty 316 Bolting SA193GrB7/SA194Gr2H

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
✓ A960201-1-1		K32-1	K23-2	K72
✓ A960201-1-2		K23-1	K23-2	K72
✓ A960201-1-3		K23-1	K23-2	K72
✓ A960201-1-4		K23-1	K23-2	K72

\* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 600# (1)  
(pressure) (temperature)
9. Cold working pressure 1405PSI @ 150F  
(pressure) (temperature)
10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi
11. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

ORIGINAL  
 COPY  
 OF  
 THIS  
 REPORT  
 IS  
 TO  
 BE  
 KEPT  
 IN  
 THE  
 FILE  
 OF  
 THE  
 PUMP  
 OR  
 VALVE  
 TO  
 WHICH  
 IT  
 APPLIES

**CERTIFICATION OF DESIGN**

Design Specification certified by J.G. Shallenberger P.E. State PA Reg. no. 19551E  
 Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

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

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 6/27/96 Name ENL INDUSTRIES, INC. Signed [Signature]  
(N Certificate Holder) (Authorized representative)

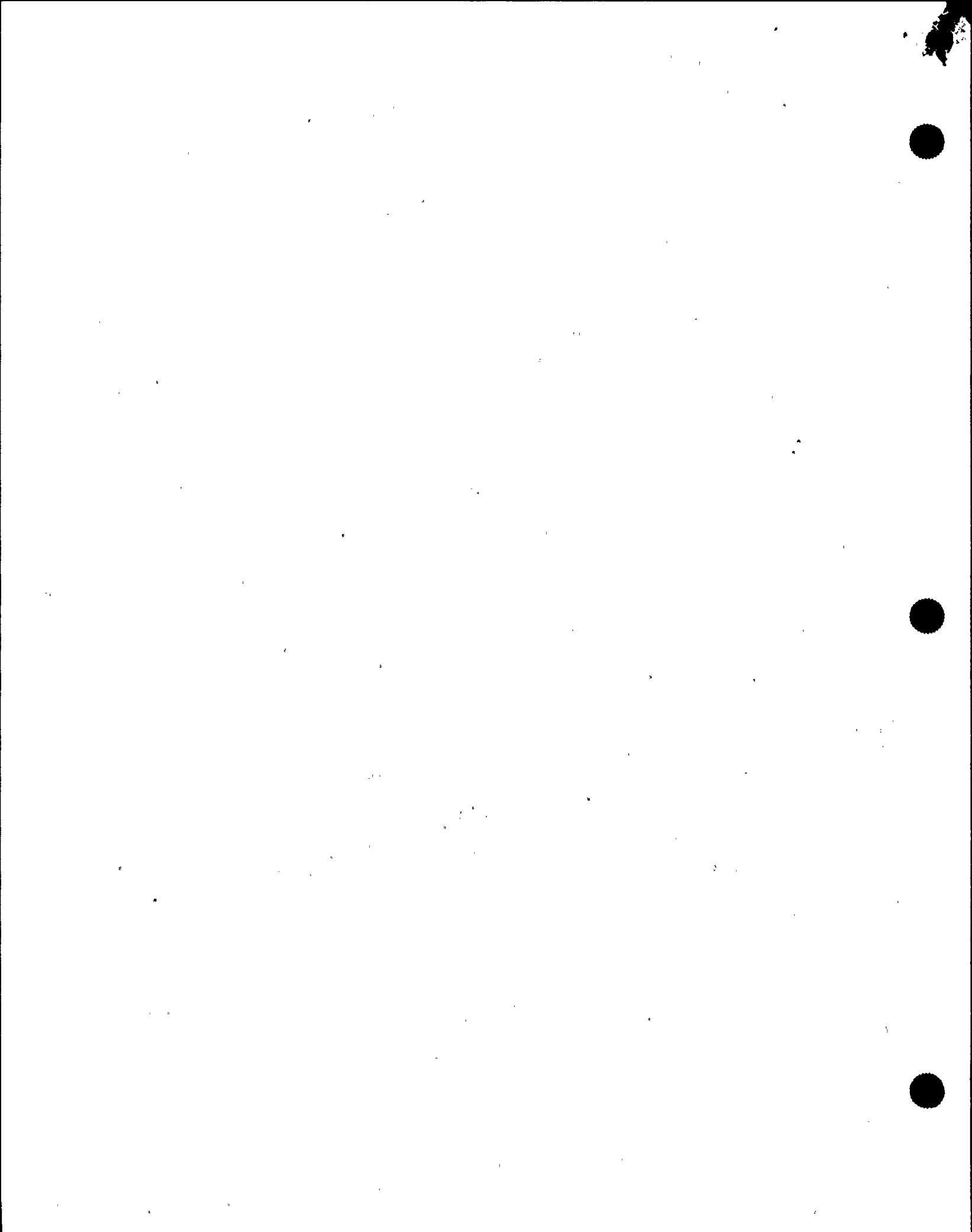
**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by COMMERCIAL UNION ENR. of HARTFORD, CT have inspected the pump, or valve, described in this Data Report on 6-27-96, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 6-27-96 Signed [Signature] Commissions CT 1343  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.



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

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

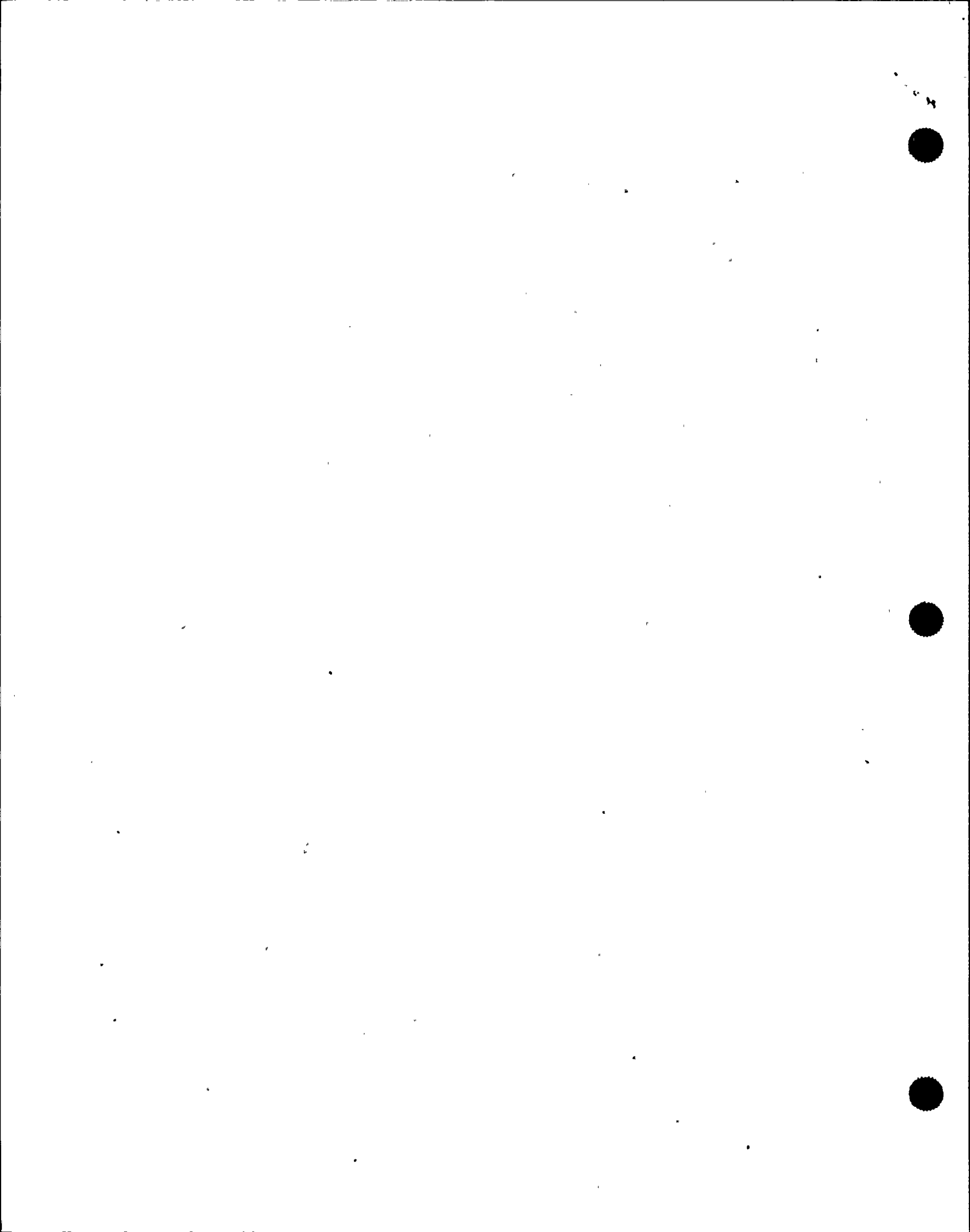
1. Manufactured and certified by BNL INDUSTRIES, INC, 30 INDUSTRIAL PARK ROAD, VERNON, CT, 06066  
(name and address of NPT Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO, TWO NORTH NINTH ST, ALLENTOWN, PA 10101  
(name and address of Purchaser)
3. Location of Installation SUSQUEHANNA, 5 MI NE OF BERWICK, PA, 18603  
(name and address)
4. Type: HBV-A2-04-0062, R/B SA-479, Ty316 75 KSI 1997 /  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1974 / - 3 /   
(edition) (addenda data) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only)  Revision  Date   
(no.)
7. Remarks: BALL FOR 1/2" DIA. BALL VALVE

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) A961204-2-1 (#K72) /		(26)	
(2) A961204-2-2 (#K72) /		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure ANSI 600# psi. Temp. 150F °F. Hydro. test pressure 1630 PSI AMBIENT at temp. °F  
(when applicable)

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



Certificate Holder's Serial Nos. \_\_\_\_\_ through \_\_\_\_\_

**CERTIFICATION OF DESIGN**

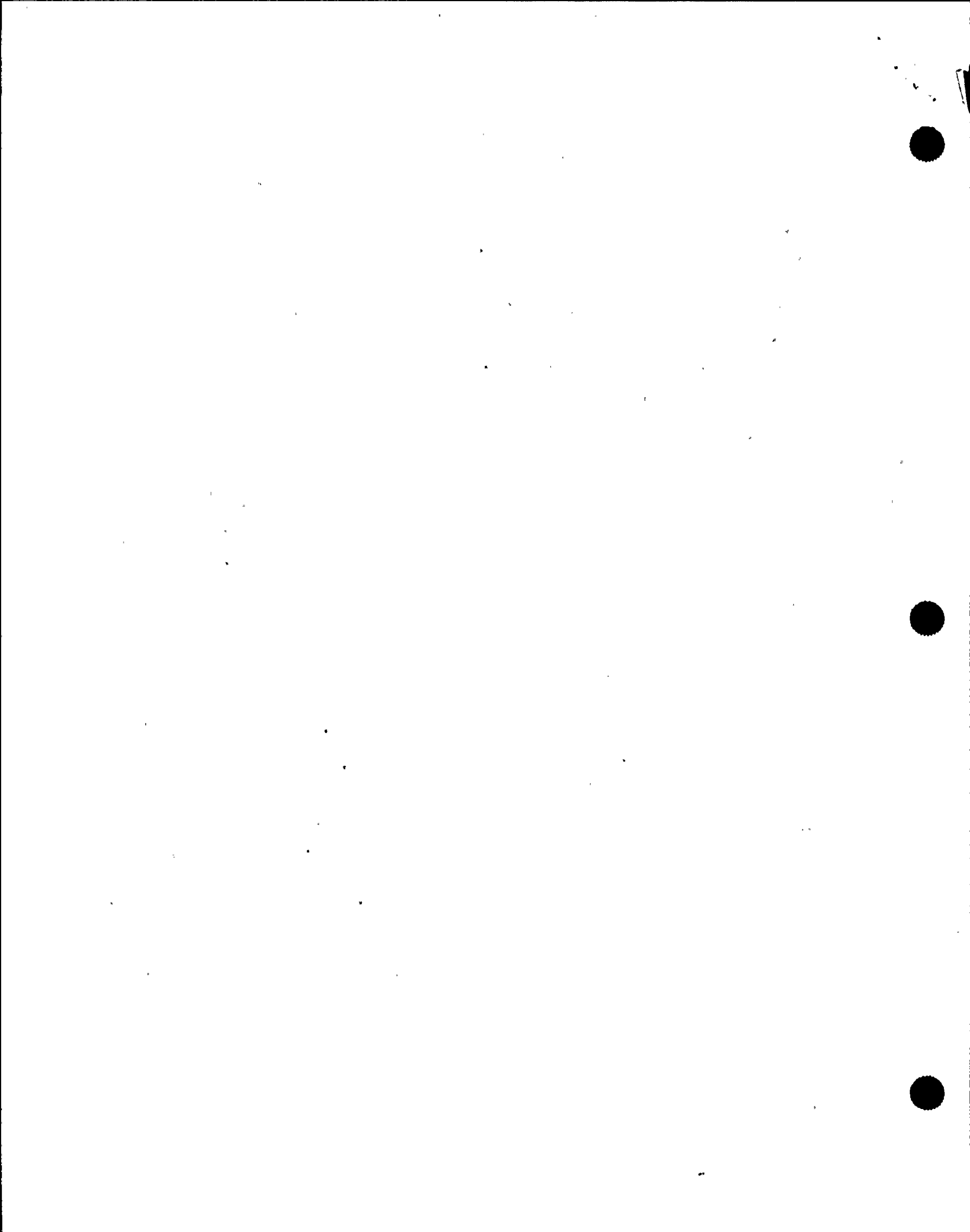
Design specifications certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E  
(when applicable)  
Design report\* certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this (these) BALLS  
conforms to the rules of construction of the ASME Code, Section III, Division 1.  
NPT Certificate of Authorization No. N-2883 Expires 11/10/98  
Date 04/11/97 Name BNL INDUSTRIES, INC. Signed [Signature]  
(NPT Certificate Holder) (Authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by COMMERCIAL UNION INSURANCE  
of BOSTON, MASS have inspected these items described in this Data Report on 04/11/97, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.  
Date 04/11/97 Signed [Signature] Commissions CT 1343  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)



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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/28/98

Sheet 1 of 17

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

See Attached Listing  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
1) Main Steam Relief Valve	Crosby	(Valve) N63790-00-0024	N/A	PSV141F013A	1980	REPLACED	YES
Main Steam Relief Valve	Crosby	(Valve) N63790-00-0085	N/A	PSV141F013A	1981	REPLACEMENT	YES
2) Stud	Crosby	(Valve) N63790-00-0085	N/A	PSV141F013A	1981	REPLACED	NO
Stud	Allied Nut & Bolt Co.	HT# 8861167	N/A	PSV141F013A	1995	REPLACEMENT	NO
3) Valve Body	Crosby	N63790-00-0085 Body N93183-37-0094	N/A	PSV141F013A	1981	REPLACED	YES
Valve Body	Crosby	Body N93183-37-0098	N/A	PSV141F013A	1981	REPLACEMENT	YES

7. Description of Work See Attached Listing

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

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED. CONSTRUCTION CODE AND REPLACEMENT CODES  
ARE NOTED ON ATTACHED LIST. NOTE: CRD UNITS ARE REBUILDS, WITH DATA REPORTS BEING  
PREVIOUSLY SUBMITTED. MSRV DATA REPORTS ARE ALREADY ON FILE. ITEM#3 REFERENCE  
CR 98-1248 ORIGINAL NV-1 FORM ERROR CORRECTIONS.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed: [Signature] Date Oct 9, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State  
or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of  
Norwood, Massachusetts have inspected the components described  
in this Owner's Report during the period Aug. 6 1997 to MAY 20 1998, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 1BNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date OCT. 9 1998



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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/28/98

Sheet 2 of 17

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

See Attached Listing  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
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4) Mainsteam Relief Valve	Crosby	(Valve) N63790-00-0025	N/A	PSV141F013G	1980	REPLACED	YES
Mainsteam Relief Valve	Crosby	(Valve) N63790-00-0091	N/A	PSV141F013G	1981	REPLACEMENT	YES
5) Mainsteam Relief Valve	Crosby	(Valve) N63790-00-0082	N/A	PSV141F013E	1982	REPLACED	YES
Mainsteam Relief Valve	Crosby	(Valve) N63790-00-0030	N/A	PSV141F013E	1980	REPLACEMENT	YES
6) Inlet Nut	Crosby	(Valve) N63790-00-0030	N/A	PSV141F013E	1980	REPLACED	NO
Inlet Nut	Walker	HT# M57188	N/A	PSV141F013E	1997	REPLACEMENT	NO
7) Outlet Bolt-2	Crosby	(Valve) N63790-00-0030	N/A	PSV141F013E	1980	REPLACED	NO
Outlet Bolt-2	Allied	HT# 99784	N/A	PSV141F013E	1996	REPLACEMENT	NO
8) Disc Insert	Crosby	(Valve) N63790-00-0030	N/A	PSV141F013E	1980	REPLACED	YES
Disc Insert	Crosby	S/N N93185-62-0271	N/A	PSV141F013E	1996	REPLACEMENT	YES
9) MSRV Nozzle	PP&L	(Valve) N63790-00-0030	N/A	PSV141F013E	1980	REPAIRED	YES

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     9/28/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     3                     of                     17                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                                         See Attached Listing                      
Address Repar Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

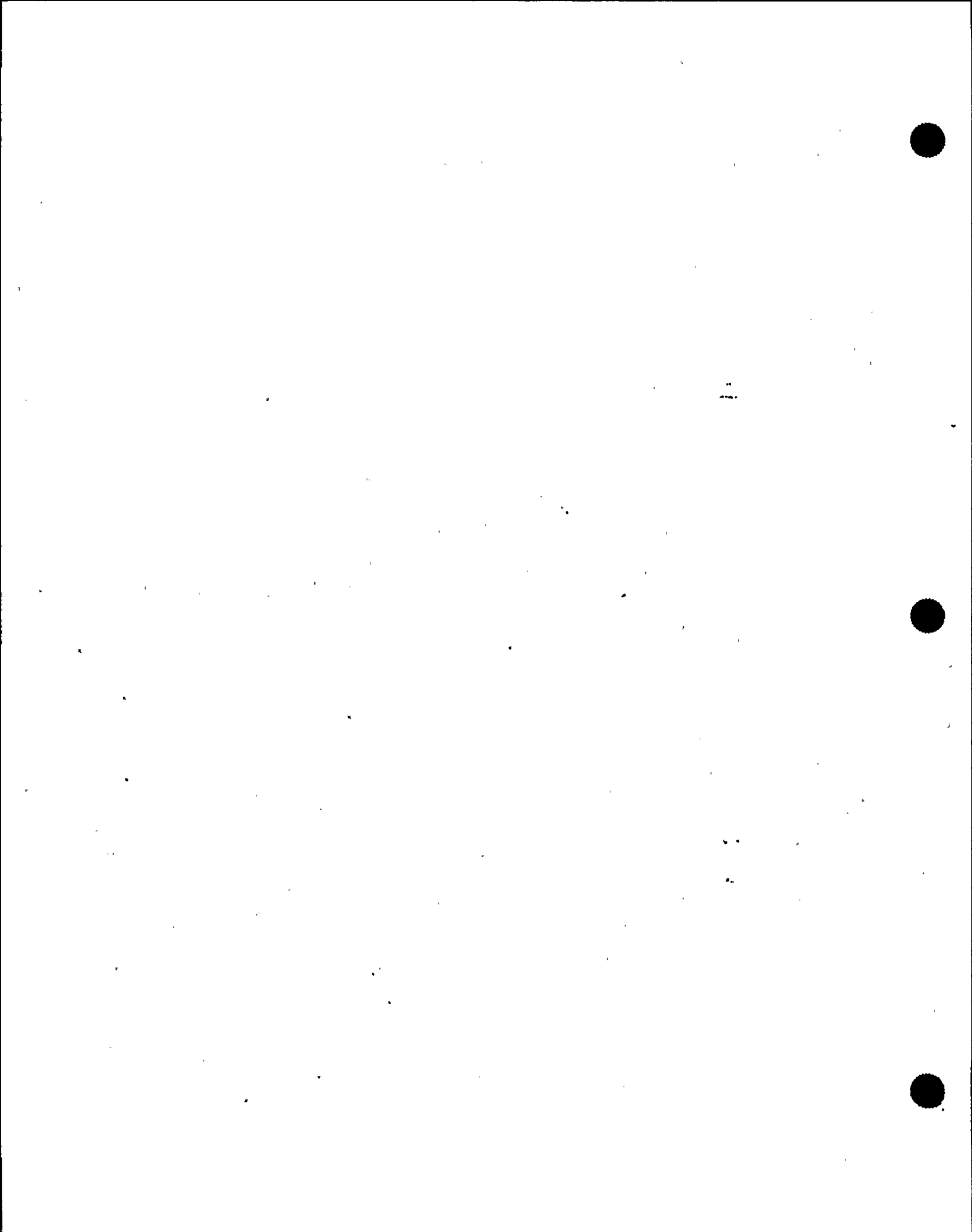
4. Identification of System                     Reactor Vessel & Aux. System 162A, Class 1                    

5. (a) Applicable Construction Code                     ASME sec. III 19 71                     Edition,                     thru W72                     Addenda,                     1361                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89, no adden.                    

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)
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10) Main Steam Relief Valve	Crosby	(Valve) N63790-00-0088	N/A	PSV141F013C	1982	REPLACED	YES
Main Steam Relief Valve	Crosby	(Valve) N63790-00-0084	N/A	PSV141F013C	1981	REPLACEMENT	YES
11) Inlet Nut-3	Crosby	(Valve) N63790-00-0084	N/A	PSV141F013C	1981	REPLACED	NO
Inlet Nut-3	Walker	HT# M57188	N/A	PSV1441F013C	1997	REPLACEMENT	NO
12) Disc Insert	Crosby	(Valve) N63790-00-0084	N/A	PSV141F013C	1981	REPLACED	YES
Disc Insert	Crosby	N93185-39-0112	N/A	PSV141F013C	1989	REPLACEMENT	YES
13) MSRV Nozzle	PP&L	(Valve) N63790-00-0084	N/A	PSV141F013C	1981	REPAIRED	YES
14) Main Steam Relief Valve	Crosby	(Valve) N63790-00-0026	N/A	PSV141F013P	1980	REPLACED	YES
Main Steam Relief Valve	Crosby	(Valve) N63790-00-0090	N/A	PSV141F013P	1981	REPLACEMENT	YES
15) Stud	Crosby	(Valve) N63790-00-0090	N/A	PSV141F013P	1980	REPLACED	NO
Stud	Allied	HT# M57715	N/A	PSV141F013P	1996	REPLACEMENT	NO



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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/28/98  
 Sheet 4 of 17

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One  
See Attached Listing  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

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

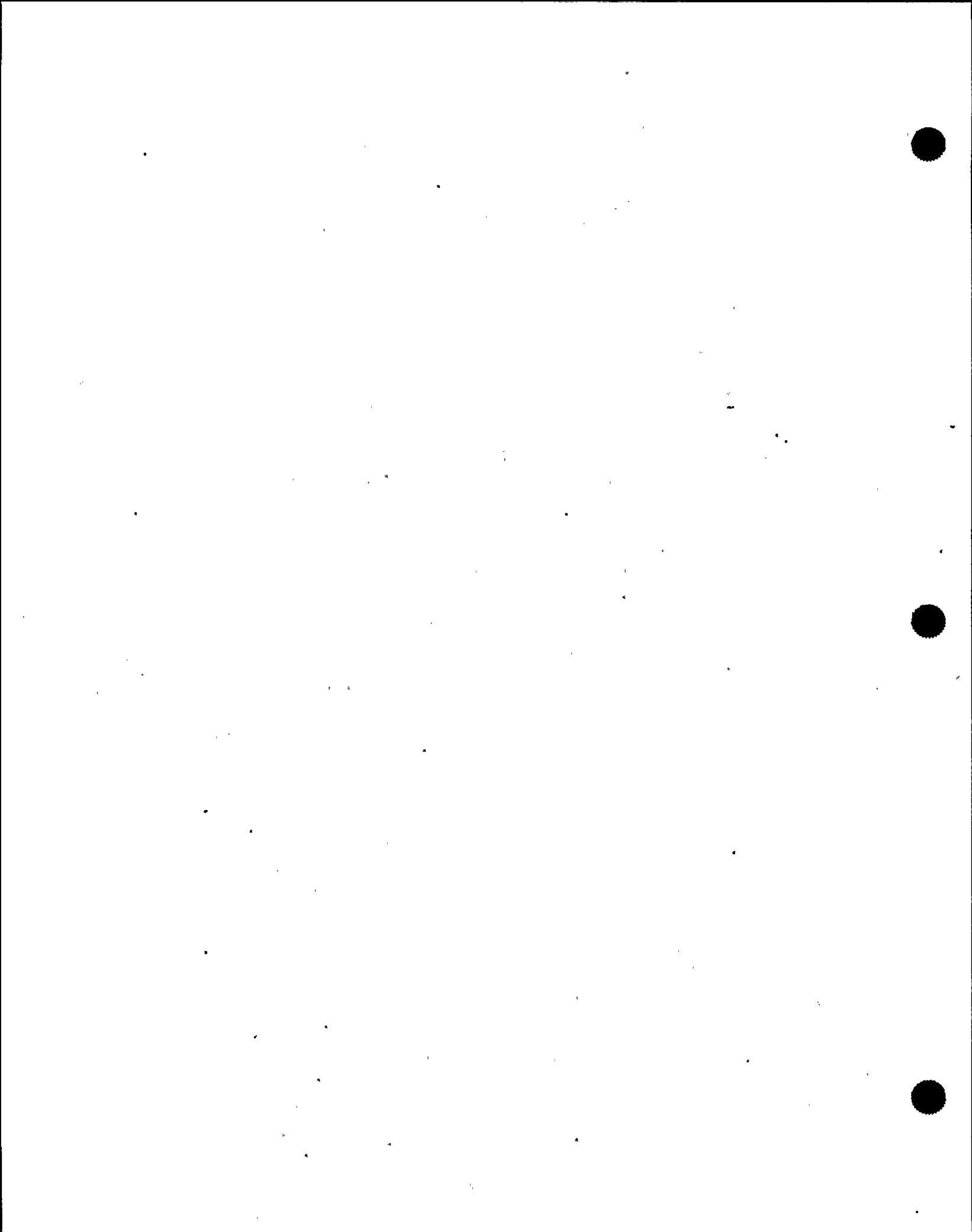
4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
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16) Main Steam Relief Valve	Crosby	(Valve) N63790-00-0031	NA	PSV141F013M	1980	REPLACED	YES
Main Steam Relief Valve	Crosby	N63790-00-0096	N/A	PSV141F013M	1981	REPLACEMENT	YES
17 Disc Insert	Crosby	(Valve) N63790-00-0096	N/A	PSV141F013M	1981	REPLACED	YES
Disc Insert	Crosby	N93185-62-0276	N/A	PSV141F013M	1996	REPLACEMENT	YES
18) Stud	Crosby	(Valve) N63790-00-0096	N/A	PSV141F013M	1981	REPLACED	NO
Stud	Allied	HT# 8861167	N/A	PSV141F013M	1995	REPLACEMENT	NO
19) MSRV Nozzle	PP&L	N63790-00-0096	N/A	PSV141F013M	1981	REPAIRED	YES
20) Mainsteam Relief Valve	Crosby	(Valve) N63790-00-0033	N/A	PSV141F013J	1980	REPLACED	YES
Mainsteam Relief Valve	Crosby	(Valve) N63790-00-0027	N/A	PSV141F013J	1980	REPLACEMENT	YES
21) Disc Insert	Crosby	(Valve) N63790-00-0027	N/A	PSV141F013J	1980	REPLACED	YES
Disc Insert	Crosby	N93185-55-0232	N/A	PSV141F013J	1995	REPLACEMENT	YES



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

1. Owner Pennsylvania Power & Light Co. Date 9/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 5 of 17  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Attached Listing  
Address Repar Organization P.O. No., Job No., etc.

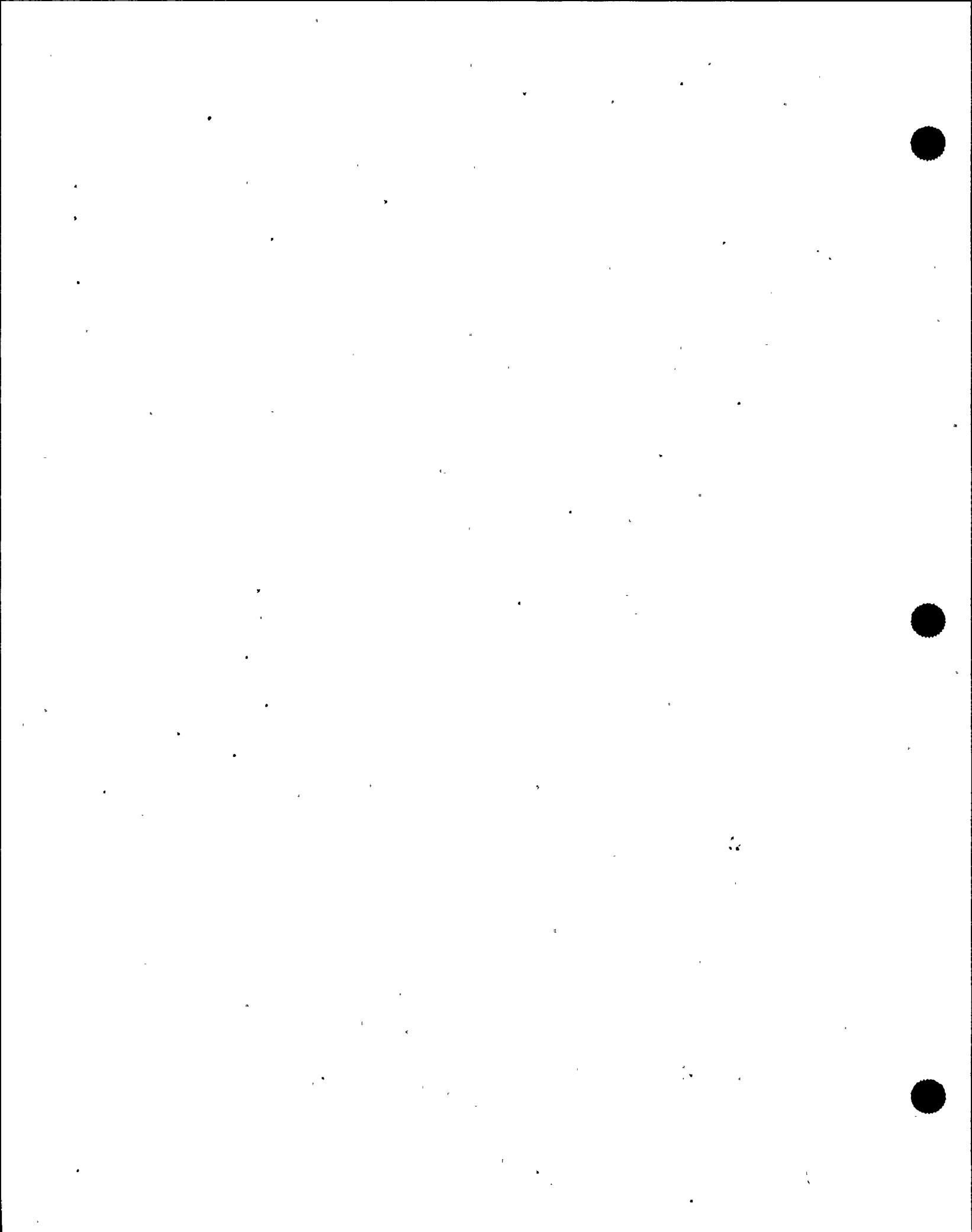
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
22) MSRV Nozzle	PP&L	N63790-00-0027	N/A	PSV141F013J	1980	REPAIRED	YES
23) Mainsteam Relief Valve	Crosby	(Valve) N63790-00-0023	N/A	PSV141F013B	1980	REPLACED	YES
MainSteam Relief Valve	Crosby	(Valve) N63790-00-0093	N/A	PSV141F013B	1981	REPLACEMENT	YES
24) Outlet Bolt-1	Crosby	(Valve) N63790-00-0093	N/A	PSV141F013B	1980	REPLACED	NO
Outlet Bolt-1	Allied	HT# 99784	N/A	PSV141F013B	1996	REPLACEMENT	NO
25) Stud-12	Bechtel	N/A	N/A	DCA-111-2 Fig. M-3	1982	REPLACED	NO
Stud-12	Allied	HT# 66101	N/A	DCA-111-2 Fig. M-3	1996	REPLACEMENT	NO
26) NUTS-24	Bechtel	N/A	N/A	DCA-111-2 Fig. M-3	1982	REPLACED	NO
NUTS-24	Allied	HT# 226759	N/A	DCA-111-2 Fig. M-3	1993	REPLACEMENT	NO
27) Piping Sub Assembly	PP&L	N/A	N/A	DCA-111-2	1982	REPAIRED	YES
28) Control Rod Drive	GE	A2722	N/A	06-35 (Core Loc.)	1984	REPLACED	YES



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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     9/28/98                      
 Sheet           6           of           17          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                      
                    See Attached Listing                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

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

4. Identification of System                     Reactor Vessel & Aux. System 162A, Class 1                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           1361           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
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Control Rod Drive	GE	A4468	N/A	06-35 (Core Loc.)	1981	REPLACEMENT	YES
29) CRD Bolts-8	GE	N/A	N/A	06-35 (Core Loc.)	1984	REPLACED	NO
CRD Bolts-8	NOVA	HT Code Q4X	N/A	06-35 (Core Loc.)	1994	REPLACEMENT	NO
30) Control Rod Drive	GE	7586	N/A	06-47 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A4609	N/A	06-47 (Core Loc.)	1981	REPLACEMENT	YES
31) CRD Bolts-8	GE	n/a	N/A	06-47 (Core Loc.)	1978	REPLACED	NO
CRD Bolts-8	NOVA	HT. Code Q4X	N/A	06-47 (Core Loc.)	1994	REPLACEMENT	NO
32) Control Rod Drive	GE	9348	N/A	10-39 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	8230	N/A	10-39 (Core Loc.)	1981	REPLACEMENT	YES
33) CRD Bolts-8	GE	N/A	N/A	10-39 (Core Loc.)	1978	REPLACED	NO
CRD Bolts-8	NOVA	HT Code Q4X	N/A	10-39 (Core Loc.)	1994	REPLACEMENT	NO



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     9/28/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           7           of           17            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                                         See Attached Listing                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Reactor Vessel & Aux. System 162A, Class 1                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           1361           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
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34) Control Rod Drive	GE	A4660	N/A	22-03 (Core Loc.)	1981	REPLACED	YES
Control Rod Drive	GE	A5592	N/A	22-03 (Core Loc.)	1981	REPLACEMENT	YES
35) CRD Bolt-8	GE	N/A	N/A	22-03 (Core Loc.)	1981	REPLACED	NO
CRD Bolt-8	NOVA	Ht. Code Q4X	N/A	22-03 (Core Loc.)	1994	REPLACEMENT	NO
36) Control Rod Drive	GE	7863	N/A	22-59 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A4220	N/A	22-59 (Core Loc.)	1981	REPLACEMENT	YES
37) CRD Bolt-8	GE	N/A	N/A	22-59 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code QrX	N/A	22-59 (Core Loc.)	1994	REPLACEMENT	NO
38) Control Rod Drive	GE	A1058	N/A	26-03 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A5474	N/A	26-03 (Core Loc.)	1981	REPLACEMENT	YES
39) CRD Bolt-8	GE	N/A	N/A	26-03 (Core Loc.)	1978	REPLACED	NO

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

1. Owner Pennsylvania Power & Light Co. Date 9/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 8 of 17  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Attached Listing  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
-------------------	----------------------	-------------------------	--------------------	----------------------	------------	------------------------------------	-------------------------------

CRD Bolt-8	NOVA	HT. Code Q4X	N/A	26-03 (Core Loc.)	1994	REPLACEMENT	NO
40) Control Rod Drive	GE	9471	N/A	26-23 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A5470	N/A	26-23 (Core Loc.)	1981	REPLACEMENT	YES
41) CRD Bolt-8	GE	N/A	N/A	26-23 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	26-23 (Core Loc.)	1994	REPLACEMENT	NO
42) Control Rod Drive	GE	7715	N/A	30-11 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A4687	N/A	30-11 (Core Loc.)	1981	REPLACEMENT	YES
43) CRD Bolt-8	GE	N/A	N/A	30-11 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	30-11 (Core Loc.)	1994	REPLACEMENT	NO
44) Control Rod Drive	GE	8223	N/A	30-19 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A5376	N/A	30-19 (Core Loc.)	1981	REPLACEMENT	YES

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

1. Owner Pennsylvania Power & Light Co. Date 9/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 9 of 17  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Attached Listing  
Address Repar Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
45) CRD Bolts-8	GE	N/A	N/A	30-19 (Core Loc.)	1978	REPLACED	NO
CRD Bolts-8	NOVA	HT. Code Q4X	N/A	30-19 (Core. Loc.)	1994	REPLACEMENT	NO
46) Control Rod Drive	GE	7821	N/A	30-39 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A4304	N/A	39-39 (Core Loc.)	1981	REPLACEMENT	YES
47) CRD Bolts-8	GE	N/A	N/A	30-39 (Core Loc.)	1978	REPLACED	NO
CRD Bolts-8	NOVA	HT. Code Q4X	N/A	30-39 (Core Loc.)	1994	REPLACEMENT	NO
48) Control Rod Drive	GE	8860	N/A	34-15 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A3827	N/A	34-15 (Core Loc.)	1981	REPLACEMENT	YES
49) CRD Bolt-8	GE	N/A	N/A	34-15 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	34-15 (Core Loc.)	1994	REPLACEMENT	NO
50) Control Rod Drive	GE	7899	N/A	34-23 (Core Loc.)	1978	REPLACED	YES

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/28/98  
 Sheet 10 of 17

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One  
See Attached Listing  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

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

4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
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Control Rod Drive	GE	A3952	N/A	34-23 (Core Loc.)	1981	REPLACEMENT	YES
51) CRD Bolt-8	GE	N/A	N/A	34-23 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	34-23 (Core Loc.)	1994	REPLACEMENT	NO
52) Control Rod Drive	GE	9281	N/A	38-07 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A4513	N/A	38-07 (Core Loc.)	1981	REPLACEMENT	YES
53) CRD Bolt-8	GE	N/A	N/A	38-07 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	38-07 (Core Loc.)	1994	REPLACEMENT	NO
54) Control Rod Drive	GE	7887	N/A	38-35 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A969	N/A	38-35 (Core Loc.)	1981	REPLACEMENT	YES
55) CRD Bolt-8	GE	N/A	N/A	38-35 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	38-35 (Core Loc.)	1994	REPLACEMENT	NO

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

1. Owner Pennsylvania Power & Light Co. Date 9/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 11 of 17  
Address
2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Attached Listing  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System Reactor Vessel & Aux. System 162A, Class 1
5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.
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)
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56) Control Rod Drive	GE	A5600	N/A	42-19 (Core Loc.)	1981	REPLACED	YES
Control Rod Drive	GE	A3942	N/A	42-19 (Core Loc.)	1981	REPLACEMENT	YES
57) CRD Bolt-8	GE	N/A	N/A	42-19 (Core Loc.)	1981	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	42-19 (Core Loc.)	1994	REPLACEMENT	NO
58) Control Rod Drive	GE	7817	N/A	42-23 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	5533	N/A	42-23 (Core Loc.)	1978	REPLACEMENT	YES
59) CRD Bolt-8	GE	N/A	N/A	42-23 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	42-23 (Core Loc.)	1994	REPLACEMENT	YES
60) Control Rod Drive	GE	7621	N/A	42-55 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A5087	N/A	42-55 (Core Loc.)	1981	REPLACEMENT	YES
61) CRD Bolt-8	GE	N/A	N/A	42-55 (Core Loc.)	1978	REPLACED	NO

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

1. Owner                     Pennsylvania Power & Light Co.                      
Name

Date                     9/28/98                    

                    Two North Ninth St., Allentown, PA 18101                      
Address

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2. Plant                     Susquehanna Steam Electric Station                      
Name

Unit                     One                    

                    PO Box 467, Berwick, PA 18603                      
Address

                    See Attached Listing                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name

Type Code Symbol                     N/A                    

                    Two North Ninth St., Allentown, PA 18101                      
Address

Authorization No.                     N/A                    

Expiration Date                     N/A                    

4. Identification of System                     Reactor Vessel & Aux. System 162A, Class 1                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           1361           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

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)
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CRD Bolt-8	NOVA	HT. Code Q4X	N/A	42-55 (Core Loc.)	1994	REPLACEMENT	NO
62) Control Rod Drive	GE	3781	N/A	46-35 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	9165	N/A	46-35 (Core Loc.)	1978	REPLACEMENT	YES
63) CRD Bolt-8	GE	N/A	N/A	46-35 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	46-35 (Core Loc.)	1994	REPLACEMENT	NO
64) Control Rod Drive	GE	7927	N/A	46-51 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	7900	N/A	46-51 (Core Loc.)	1978	REPLACEMENT	YES
65) CRD Bolt-8	GE	N/A	N/A	46-51 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	46-51 (Core Loc.)	1994	REPLACEMENT	NO
66) Control Rod Drive	GE	8303	N/A	50-23 (Core Loc.)	1978	REPLACED	YES
Control Rod Drive	GE	A5515	N/A	50-23 (Core Loc.)	1981	REPLACEMENT	YES

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/28/98

Sheet 13 of 17

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

See Attached Listing  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
67) CRD Bolt-8	GE	N/A	N/A	50-23 (Core Loc.)	1978	REPLACED	NO
CRD Bolt-8	NOVA	HT. Code Q4X	N/A	50-23 (Core Loc.)	1994	REPLACEMENT	NO

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/28/98

Sheet 14 of 17

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

See Attached Listing  
Repar Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Vessel & Aux. System 162A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, 1361 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

6. Identification of Components Repaired or Replaced and Replacement Components

COMPONENT MANUFACTURER & ITEM	CODE/CODE CASES
Crosby Valve & Gage Co. (Item# 1 thru 22) includes MSRV N63790-00-0085, 0091, 0030, 0084, 0090, 0096, 0026. 0093	Construction and Replacement Code is ASME Section III, 1971 Ed. with No Addenda; Code Cases 1567 & 1711
Crosby Valve & Gage Co. Disc Inserts	Replacement Code is ASME Section III, 1974 Edition thru Summer '75 Addenda.
Allied Nut & Bolt Co. (Stud)	Replacement Code is ASME Section III, 1971 Edition with No Addenda.
Allied Nut & Bolt Co. (Outlet Bolt)	Replacement Code is ASME Section III, 1989 Edition with No Addenda.
Walker Mfg. (Nut)	Replacement Code is ASME Section III, 1971 Edition with No Addenda.
NOVA Mfg. Bolt-CRD	Replacement Code is ASME Section III, 1986 Edition with No Addenda.



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

1. Owner <u>          Pennsylvania Power &amp; Light Co.          </u> <small style="margin-left: 100px;">Name</small> <u>          Two North Ninth St., Allentown, PA 18101          </u> <small style="margin-left: 100px;">Address</small>	Date <u>          9/28/98          </u> Sheet <u>      15      </u> of <u>      17      </u>
2. Plant <u>          Susquehanna Steam Electric Station          </u> <small style="margin-left: 100px;">Name</small> <u>          PO Box 467, Berwick, PA 18603          </u> <small style="margin-left: 100px;">Address</small>	Unit <u>          One          </u> See Attached Listing <small style="margin-left: 100px;">Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>          Pennsylvania Power &amp; Light Co.          </u> <small style="margin-left: 100px;">Name</small> <u>          Two North Ninth St., Allentown, PA 18101          </u> <small style="margin-left: 100px;">Address</small>	Type Code Symbol <u>          N/A          </u> Authorization No. <u>          N/A          </u> Expiration Date <u>          N/A          </u>
4. Identification of System <u>          Reactor Vessel &amp; Aux. System 162A, Class 1          </u>	
5. (a) Applicable Construction Code <u>      ASME sec. III      </u> 19 <u>      71      </u> Edition, <u>      thru W72      </u> Addenda, <u>      1361      </u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>      89, no adden.      </u>	
6. Identification of Components Repaired or Replaced and Replacement Components'	

COMPONENT MANUFACTURER & ITEM	CODE/CODE CASES
GE Control Rod Drives S/N 9348, 7863, A1058, 9471, 8223, 7821, 8860, 7899, 9281, 7887, 7817, 7621, 3781, 8303 Replacement CRD S/N 9165, 7900  Replacement CRD S/N 5533  NOTE: All other CRD's ASME Sec. III, 71 Ed. thru W72 Addenda Code Case 1361.	Construction Code is ASME Section III, 1971 Edition with No Addenda. Code Case 1361.  ASME Section III, 71 Ed. S'72 Addenda Code Case 1361.
VT-2 SE-100-002 Temp. 165°F Pressure 1037 PSI	

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     9/28/98                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           16           of           17            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                                         See Below                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     Reactor Vessel & Aux. System 162A, Class 1                    

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72           Addenda,           1361           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

6. Identification of Components Repaired or Replaced and Replacement Components

Items	Susquehanna Work Authorization Number	Code Repair Form No.	Description of Test
1	H70563	97-162-010	VT-1 for Inlet Bolting (NVT-1) VT-2 per SE-100-002 (Inlet Flange)
2,3	H70523	98-162-001	VT-1 (Inlet Stud) VT-3 (Internals) VT-2 per SE-100-002 during Valve Installation
4	H70566	97-162-011	VT-1 For Inlet Bolting (NVT-1) VT-2 per SE100-002 (Inlet Flange)
5,6,7	H70565	97-162-012	VT-1 For Inlet Bolting (NVT-1) VT-2 per SE100-002 (Inlet Flange)
8,9	H70523	98-162-003	VT-3 (NVT-3) VT-2 per SE-100-002 during Valve Installation
10,11	H70564	97-162-013	VT-1 (Inlet Bolting) NVT-1/VT-2 per SE-100-002 (Inlet Flange)
12,13	H70523	98-162-002	VT-3 (NVT-3) VT-2 per SE-100-002 during Valve Installation
14	H70568	97-162-014	VT-1 for Inlet Bolting (NVT-1) VT-2 per SE-100-002 (Inlet Flange)
15	H70523	98-162-006	VT-1 (Inlet Stud) VT-3 (Internal) VT-2 Per SE-100-002 During Valve Installation
16	H70567	97-162-015	VT-1 (Inlet Bolting) NVT-1 VT-2 per SE-100-002 (Inlet Flange)
17,18,19	H70523	98-162-005	VT-1 (Inlet Stud) VT-3 (Internal) VT-2 per SE-100-002 during Valve Installation
20	H70577	97-162-016	VT-1 (Inlet Bolting) NVT-1 VT-2 per SE-100-002 (Inlet Flange)
21,22	H70523	98-162-004	VT-3 (NVT-3) VT-2 per SE-100-002 during Valve Installation
23, 24	H70572	97-162-017	VT-1 (Inlet Bolting) NVT-1 VT-2 per SE-100-002 (Inlet Flange)
25,26	H70254	98-162-007	VT-1 (NVT-1) VT-2 per SE-100-002
27	Y70803	98-162-008	None Required
28,29	H70192	97-162-018	VT-1 Cap Screws NVT-1 VT-2 during SE-100-002
30,31	H70195	97-162-019	VT-1 Cap Screws NVT-1 VT-2 during SE-100-002
32,33	H70196	97-162-020	VT-1 Cap Screws NVT-1 VT-2 during SE-100-002

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

<p>1. Owner <u>                    Pennsylvania Power &amp; Light Co.                    </u>  <small>Name</small></p> <p><u>                    Two North Ninth St., Allentown, PA 18101                    </u>  <small>Address</small></p> <p>2. Plant <u>                    Susquehanna Steam Electric Station                    </u>  <small>Name</small></p> <p><u>                    PO Box 467, Berwick, PA 18603                    </u>  <small>Address</small></p> <p>3. Work Performed by <u>                    Pennsylvania Power &amp; Light Co.                    </u>  <small>Name</small></p> <p><u>                    Two North Ninth St., Allentown, PA 18101                    </u>  <small>Address</small></p> <p>4. Identification of System <u>                    Reactor Vessel &amp; Aux System 162A, Class 1                    </u></p> <p>5. (a) Applicable Construction Code <u>                    ASME sec. III                    </u> 19 <u>                    71                    </u> Edition, <u>                    thru W72                    </u> Addenda, <u>                    1361                    </u> Code Case  (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>                    89, no adden.                    </u></p> <p>6. Identification of Components Repaired or Replaced and Replacement Components</p>	<p>Date <u>                    9/28/98                    </u></p> <p>Sheet <u>                    17                    </u> of <u>                    17                    </u></p> <p>Unit <u>                    One                    </u></p> <p><u>                    See Below                    </u>  <small>Repair Organization P.O. No., Job No., etc.</small></p> <p>Type Code Symbol <u>                    N/A                    </u></p> <p>Authorization No. <u>                    N/A                    </u></p> <p>Expiration Date <u>                    N/A                    </u></p>
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Items	Susquehanna Work Authorization Number	Code Repair Form No.	Description of Test
34,35	H70197	97-162-021	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
36,37	H70198	97-162-022	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
38,39	H70199	97-162-023	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
40,41	H70200	97-162-024	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
42,43	H70201	97-162-025	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
44,45	H70202	97-162-026	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
46,47	H70203	97-162-027	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
48,49	H70204	97-162-028	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
50,51	H70205	97-162-029	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
52,53	H70206	97-162-030	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
54,55	H70207	97-162-031	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
56,57	H70208	97-162-032	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
58,59	H70209	97-162-033	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
60,61	H70210	97-162-034	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
62,63	H70212	97-162-035	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
64,65	H70213	97-162-036	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002
66,67	H70214	97-162-037	VT-1 Cap Screws (NVT-2) VT-2 during SE-100-002

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

1. Owner Pennsylvania Power & Light Co. Date 25, 26, 27, 28 8/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 2  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 2  
Address Repar Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System RECIRC Flow CTL & Jet Pump, 164A, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 80 Edition, thru W80 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
1) Disc	Target Rock	VALVE S/N 75KK-209-14	N/A	SV-12374	1986	REPLACED	YES
Disc	Target Rock	Disc S/N 2203	N/A	SV-12374	1992	REPLACEMENT	YES
2) Disc	Target Rock	VALVE S/N 75KK-209-14	N/A	SV-12374	1986	REPLACED	YES
Disc	Target Rock	Disc S/N 2184	N/A	SV-12374	1992	REPLACEMENT	YES

7. Description of Work Replaced Discs.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 2  
 Other  Pressure N/A psi Test Temp. N/A °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date Aug 28, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period FEB 16 1996 to MAY 23 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date Aug 20 1998



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

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

1. Manufactured and certified by Target-Rock Corp. 1966H Broadhollow Rd. E. Farmingdale, NY 11735  
 (name and address of NPT Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co. 2 North Ninth St. Allentown, PA 18101  
 (name and address of Purchaser)

3. Location of installation Susquehanna SES; US. Rte. 11; Berwick, PA 18603  
 (name and address)

4. Type: 202539-1 SA-564 630 140 KSI N/A 1992  
 (drawing no.) (mat'l. spec. no.) (CR) (year built)

5. ASME Code, Section III, Division 1: 1980 Winter 1980 2 None  
 (edition) (Code Case no.)

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

7. Remarks: Spare parts for completed valve assembly, Model No. 75KK-209  
Main Disc Target Rock Corporation 5/27/80  
 (name) (date)

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Length overall (ft & in.) N/A  
 (in.) (in.) (ft & in.)

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

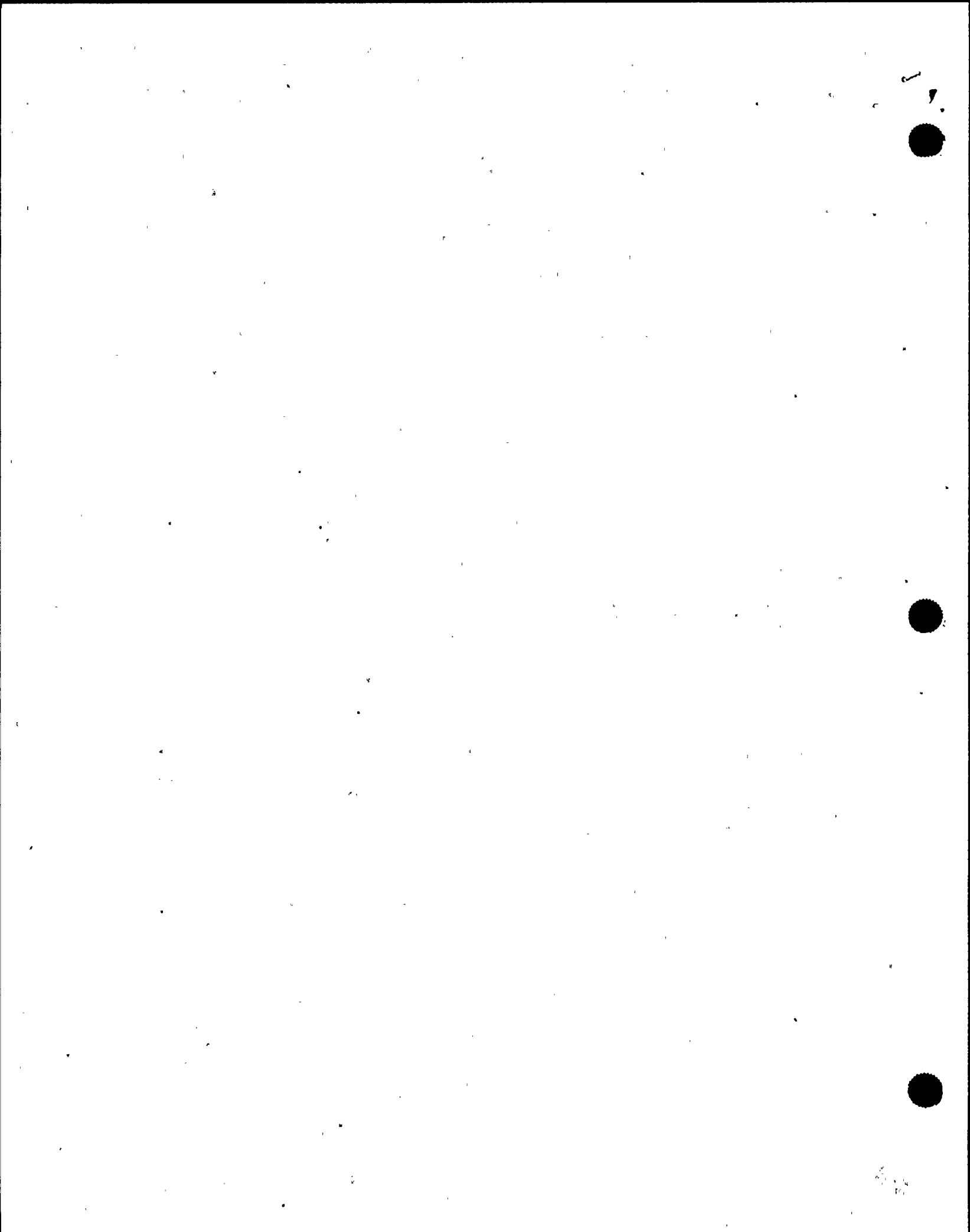
Part or Appurtenance Serial Number	National Board No.	Part or Appurtenance Serial Number	National Board No.
(1) <u>2169</u>	<u>N/A</u>	(26)	
(2) <u>2184</u>	<u>N/A</u>	(27)	
(3) <u>2185</u>	<u>N/A</u>	(28)	
(4) <u>2203</u>	<u>N/A</u>	(29)	
(5) <u>N/A</u>	<u>N/A</u>	(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
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(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure N/A psi. Temp. N/A °F. Hydro. test pressure 3300 psig at temp. °F  
 (when applicable) Ambient

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

No. 92-0250  
 RECORD PACKAGE  
 PAGE 1 OF 32

9 2 1 2 5 0





DESIGN SPECIFICATION CERTIFIED BY L. S. Loomer P.E. State of PA Reg. no. 19875E

DESIGN REPORT CERTIFIED BY FRANK A. ... P.E. State of PA Reg. no. ...

**CERTIFICATE OF COMPLIANCE** WINTER 1980

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

NPT Certificate of Authorization No. ... 1948 Expires 12-12-82  
 Date 2/27/92 Name Target Rock Corporation Signed E. Bajada  
 E. Bajada; Director, Q.A.

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Commercial Union Insurance Company

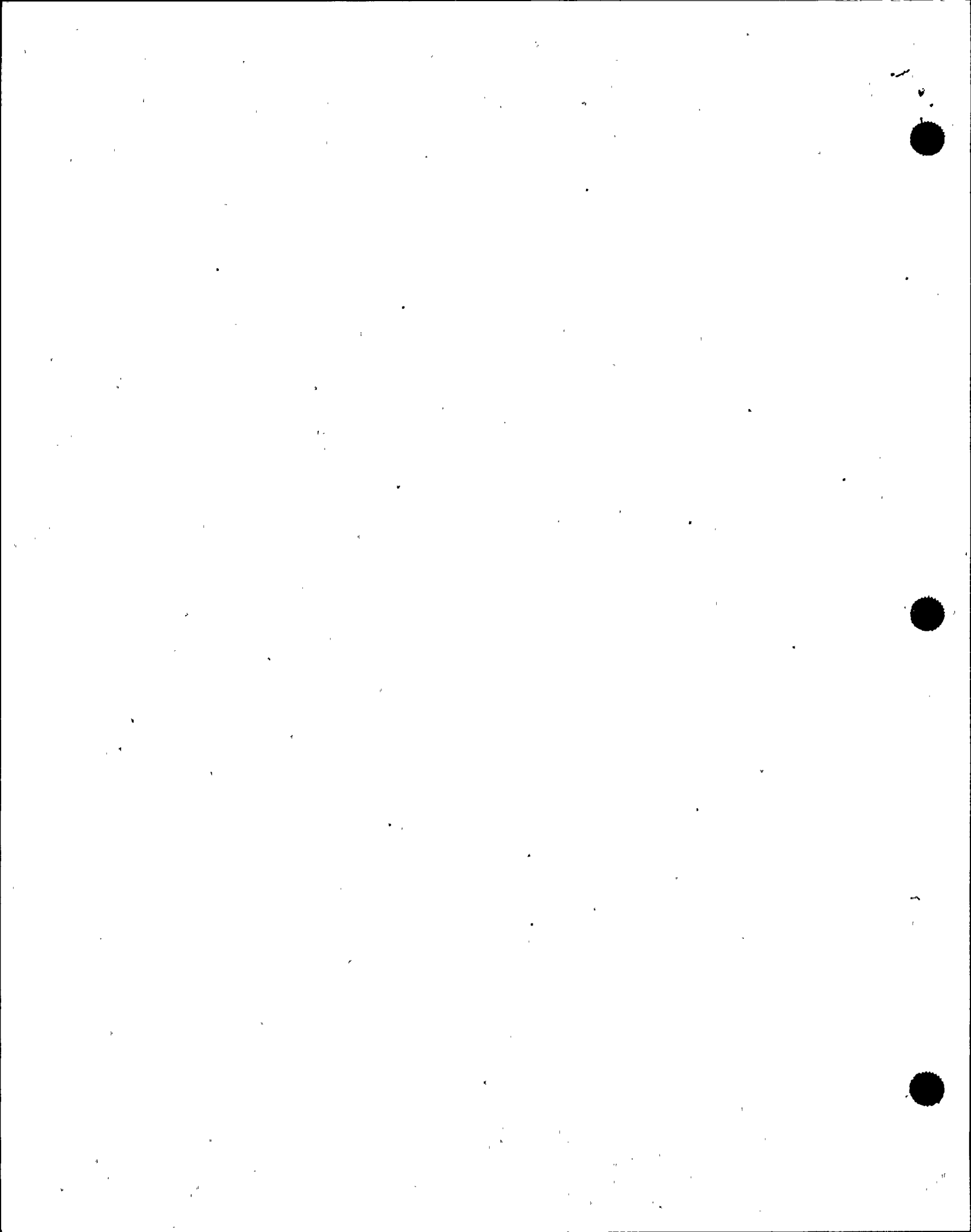
of Boston, Mass. have inspected these items described in this Data Report on 2/27/92 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appliances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 2/27/92 Signed William C. Ireland **N.Y. STATE COMMISSION NO. 2288**  
 ALSO COMMISSIONED IN PENN., OHIO & CONN.

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 02-20-92  
 3040-020



164B-I

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 8/20/98  
Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One  
See Sheet 2  
Repar Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

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

4. Identification of System Recirc Water Loops and Jet Pumps System 164B, Class I

5. (a) Applicable Construction Code See Block 9 19      Edition,      Addenda,      Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
1) Stem/Disc Assembly	Masoneilan	VALVE S/N N00186-15-1	N/A	HV-143-F020	1978	REPLACED	YES
Stem/Disc Assembly	Masoneilan	1810-1-1035-7	N/A	HV-143-F020	1997	REPLACEMENT	YES
2) Seal	Byron Jackson	S/N 841-W-4628	N/A	1P401B	1973	REPLACED	YES
Seal	Byron Jackson	S/N 793-W-5468	N/A	1P401B	1981	REPLACEMENT	YES

7. Description of Work Replaced components with equivalent components.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 2  
Other  Pressure 1036 psi Test Temp. 527.8 °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CODE OF CONSTRUCTION FOR BRYON JACKSON PUMP SEAL IS ASME SECTION III, 1971 EDITION  
THROUGH SUMMER 1971 ADDENDA. CODE OF CONSTRUCTION FOR MASONEILAN PARTS IS  
ASME SEC. III, 1974 ED. W75 ADDENDA. NO CODE CASES.

CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date Aug 24, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period FEB 26 1997 to MAY 25 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature      National Board, State, Province, and Endorsements

Date Aug 28 1998





**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

N 398186-1

Pg. 1 of 2

1. Manufactured and certified by Masoneilan Dresser Industries, 85 Bodwell St., Avon, MA 02322  
(Name and address of NPT Certificate Holder)
2. Manufactured for Pennsylvania Power & Light, 2 North Ninth St., Allentown, PA 18101  
(Name and address of Purchaser)
3. Location of Installation Pennsylvania Power & Light, 2 North Ninth St., Allentown, PA 18101  
(Name and address)
4. Type: P9899 Rev. D Haynes Alloy 6B 139,291 PSI N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRM) (year built)
5. ASME Code, Section III, Division 1: 1974 Edition Winter 1975 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
7. Remarks: Masoneilan Part No. 013431-135-1L2 - 3/4" & 1"

Spare Part for S/N N00186-5,6,7,8,9,10,12,14,15

Qty. (2)

8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 1810-1-1035-7		(28)	
(2) 1810-1-1035-8		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1650 psi. Temp. 565 °F. Hydro. test pressure N/A at temp. °F  
(when applicable)

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

Pg 4

FOR INFORMATION ONLY

FORM N-2 (Back -- Pg. 2 of 2)

Certificate Holder's Serial Nos. H 398186-1 through \_\_\_\_\_

CERTIFICATION OF DESIGN

Design specifications certified by Sidney A. Copland P.E. State PA Reg. no. 19877-E  
(when applicable)  
Design report\* certified by N/A P.E. State N/A Reg. no. N/A  
(when applicable)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this ~~report~~ Plug S/A conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. H-1837 Expires August 19, 1998

Date 9/16/97 Name Masonellan-Dresser Industries Signed Willie W. Well  
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of MA and employed by H.S.B.I. & I. Co.

of Hartford, CT have inspected these items described in this Data Report on SEPT. 17, 1997, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 9/17/97 Signed Willie W. Well Commissions MA-1337  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)



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

As required by the Provisions of the ASME Code Rules

- 1. (a) Manufactured by BYRON JACKSON PUMP DIV. P.O. Box 2017, TERMINAL AVENUE, LOS ANGELES, CALIF.  
(Name and address of Manufacturer of part)
- (b) Manufactured for GENERAL ELECTRIC CO., 175 CURTISS AVE., SAN JOSE, CALIF.  
(Name and address of Manufacturer of completed nuclear component)
- 2. Identification-Manufacturer's Serial No. of Part 793-W-5468 Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. IE-3429-0 Drawing Prepared by BYRON JACKSON PUMP
- (b) Description of Part Inspected SEAL CARTRIDGE ASSEMBLY
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda SH1, Case No. N/A Class I
- 3. Remarks: SEAL CARTRIDGE ASSEMBLY FOR PUMP SERIAL NO. 711-S-0801  
(Brief description of service for which component was designed)  
PENNSYLVANIA POWER AND LIGHT CO., BERWICK, PENNSYLVANIA.

  
 RJE  
 5/21/81

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

Date 21 MAY 1981 Signed BYRON JACKSON PUMP by [Signature] 21 MAY 1981  
(Manufacturer)

Certificate of Authorization Expires 16 JUNE 1981 Certificate of Authorization No. 1131

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)	
Design information on file as _____	
Stress analysis report on file as _____	
Design specifications certified by _____	Prof. Eng. State _____ Reg. No. _____
Stress analysis report certified by _____	Prof. Eng. State _____ Reg. No. _____

CERTIFICATE OF SHOP INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>CA.</u> and employed by <u>ABO NEE MUTUAL INS CO</u> of <u>WALTHAM, MASS.</u> have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on <u>5/21</u> 19 <u>81</u> , and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.	
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Date <u>5/21</u> 19 <u>81</u>	
<u>[Signature]</u> Inspector's Signature	Commission <u>CA 1126 PA WC 2200</u> <small>National Board, State, Province and No.</small>

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

Items below to be completed for all vessels under construction.

15. Safety Valve Outlet: Number N/A Size N/A Location N/A

16. Nozzles:

Purpose (Inlet, outlet, drain)	Number	Diem. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

17. Inspection Manholes: No. N/A Size N/A Location N/A  
 Openings: Manholes: No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded: No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

18. Supports: Skirt N/A (Y or of no) Legs N/A (Number) Legs N/A (Number) Over N/A (Quantity) Attached N/A (Where & how)

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

(The appropriate Design Specification and Design Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Design Report if the appurtenance is not included in the component Design Specification and Design Report.)

Date 29 January 1985 Signed Edward Aaron Rine by Cliffhorne  
 (NPT Certificate Holder) Off  
 Certificate of Authorization Expires 16 June 1987 Certificate of Authorization No. N-1191

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at N/A

Stress analysis report on file at N/A

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

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of CALIFORNIA and employed by California Industrial Pipe & Equipment Co. of Alhambra, Calif. have inspected the part of a pressure vessel described in this Partial Code Report on 30 Jan 1985, 1985, and state that, to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code, Section III.

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

Date 30 Jan 1985  
[Signature]  
 Inspector  
 Commission Calif - 1191  
 National Board of Boiler and Pressure Vessel Inspectors

01102110

173A-II

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

1. Owner Pennsylvania Power & Light Co. Date 8/17/98  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
PO Box 467, Berwick, PA 18603 WA# P52234 CODE PROGRAM FORM 95-173-005  
Name Repar Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Name Address Expiration Date N/A

4. Identification of System Containment Atmospheric Control, 173A, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru S'73 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
Drywell Vent ISO Valve Plugs	Henry Pratt	D0026-1-3	N/A	HV15714	1976	REPLACED	YES
Drywell Vent ISO Valve Plugs	Colonial	HT No. 87621	N/A	HV15714	N/A	REPLACEMENT	NO

7. Description of Work Replace Drywell Isolation Valve Plugs with Like Components

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  NON VT-2 per MI-PS-008  
 Other  Pressure N/A psi Test Temp. N/A °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 31, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period NOV 9, 1995 to NOV 17, 1995, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date SEPT. 4 1998

183A-I

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

1. Owner Pennsylvania Power & Light Co. Date 8/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 3 of 3  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Main Steam System, 183A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, See Sht 3 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

## 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)
(1) Valve	Anchor Darling	E5853-113-1	N/A	141016	1978	Repaired	Yes
(2) Stem Disc Assembly	Yarway	Valve S/N A8544	N/A	141F025B	1979	Replaced	Yes
Stem Disc Assembly	Yarway	AV94-A8	N/A	141F025B	1984	Replacement	Yes
(3) Backseat Bushing	Yarway	Valve S/N A8544	N/A	141F025B	1979	Replaced	No
Backseat Bushing	Yarway	HT No. 5293	N/A	141F025B	1984	Replacement	No
(4) Stud	Grinnell	Snubber S/N 4101	N/A	MST 22 H36A	N/A	Replaced	No

7. Description of Work Grind off tack weld to replace stem/replaced parts with equivalent parts.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 3  
 Other  Pressure N/A psi Test Temp. N/A °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

CODE CONSTRUCTION FOR YARWAY PARTS IS ASME III CLASS 1 1974, W WINTER ADDENDA 1974.

YARWAY REPLACEMENT CODE IS ASME III, CLASS I, 1986 EDITION.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Aug 31, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period DEC. 16 1997 to MAY 25 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature      National Board, State, Province, and Endorsements

Date SEPT. 4 1998

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 8/28/98

Sheet 2 of 3

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

See Sheet 3 of 3

Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol N/A

Authorization No. N/A

Expiration Date N/A

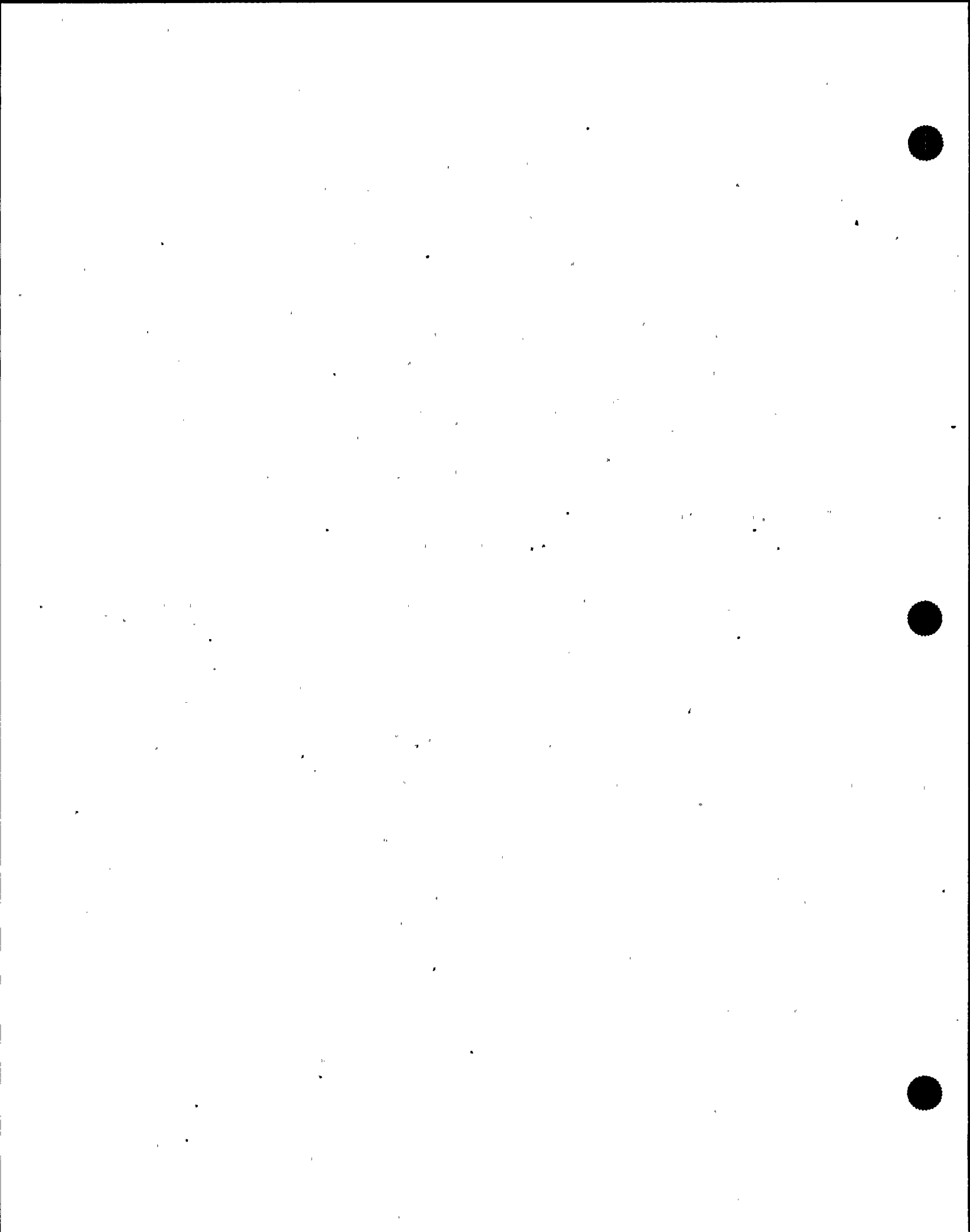
4. Identification of System Main Steam System, 183A, Class 1

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, See Sht 3 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
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Stud	Copperweld	HT. No. 52869	N/A	MST 22 H36A	1993	Replacement	No
(5) Nuts	Grinnell	Snubber S/N 4101	N/A	MST 22 H36A	N/A	Replaced	No
Nuts	Grinnell	HT No. LE-29	N/A	MST 22 H36A	N/A	Replacement	No







CORRECTED COPY *206/10/28/97*  
*206/10/28/97*

SHOP ORDER 13258

STER(S) 01040

**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 1

- Manufactured and certified by YARWAY CORPORATION\*, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760  
\* A SUBSIDIARY OF KEYSTONE INTERNATIONAL, INC. (name and address of NPT Certificate Holder)
- Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24506  
(name and address of purchaser)
- Location of installation STOCK  
(name and address)
- Type 969155-08 AMS5385E (disc) 52,000 PSI MIN. N/A 1997  
(drawing no.) (matl. spec. no.) (tensile strength) (CRN) (year built)
- ASME Code, Section III: 1986 NONE 1 206/10/28/97  
(edition) (addenda date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —  
(no.)
- Remarks: FABRICATED IN ACCORDANCE WITH CONSTRUCTION DATA 969005 REV. A, PRESSURE RETAINING PARTS FOR  
YARWAY SERIES 5500 GLOBE VALVE. THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR RECONCILING THIS  
CONSTRUCTION DATA WITH THE DESIGN SPECIFICATION FOR THE FACILITY USING THE PARTS.
- Nom. thickness (in.) — Min. design thickness (in.) — Dia. ID (ft. & in.) — Length overall (ft. & in.) —
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) AV94-A1	—	(26)	
(2) AV94-A2	—	(27)	
(3) AV94-A3	—	(28)	
(4) AV94-A4	—	(29)	
(5) AV94-A5	—	(30)	
(6) AV94-A6	—	(31)	
(7) AV94-A7	—	(32)	
(8) AV94-A8	—	(33)	
(9) AV94-A9	—	(34)	
(10) AV94-A10	—	(35)	
(11) AV94-A11	—	(36)	
(12) AV94-A12	—	(37)	
(13) AV94-A13	—	(38)	
(14) AV94-A14	—	(39)	
(15) AV94-A15	—	(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

FTI  
OP SUP  
CBH

10. Design pressure — psi. Temp. — °F Hydro. test pressure N/A at temp. °F  
\*\*FOR ANSI CLASS 1500 VALVES (when applicable)

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

(12/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

CERTIFICATION OF DESIGN

Design specifications certified by (SEE REMARKS) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)  
Design report\* certified by N/A P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) STEM AND DISC ASSEMBLIES, 1 INCH  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires NOVEMBER 14, 1998  
Date 10/24/97 Name YARWAY CORPORATION Signed [Signature]  
(NPT Certificate Holder) (authorized representative)  
F. W. PESZKA

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of  
PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY  
of NORWOOD, MA have inspected these items described in this Data Report on 10/24/97  
and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the  
ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in  
this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

\*FACTORY MUTUAL ENGINEERING ASSOCIATION

Signed [Signature] Commissions NB9541"N", PA2389  
10/28/97 (Authorized Inspector) (Natl. Bd. (incl. endorsements) state or prov. and no.)  
NB 11207 "N" PA 2607

FTI  
OP SUP  
CRR



FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

REPLACEMENT CODE IS ASME SECTION III, 1986 ED. NO ADDENDA FOR ITEM NOS: 1, 2, 3 AND 5  
THRU 14.

**CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date Sept 30, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

**CERTIFICATION OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period FEB 27 1997 to MAY 22 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA2159  
Inspector's Signature      National Board, State, Province, and Endorsements

Date SEPT 30 1998

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date 9/8/98  
 Sheet 2 of 4

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One  
 See Sheet 4 of 4  
Repar Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

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

4. Identification of System Main Steam, 183A, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 74 Edition, thru W74 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
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4) Stem/Disc Assembly	YARWAY	Valve S/N 6186	N/A	IC-LSH-10112B BOT	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-C5	N/A	IC-LSH-10112B BOT	1995	REPLACEMENT	YES
5) Backseat Bushing	YARWAY	Valve S/N 6186	N/A	IC-LSH-10112B BOT	1976	REPLACED	NO
Backseat Bushing	YARWAY	HT. No. 5293	N/A	IC-LSH-10112B BOT	1997	REPLACEMENT	NO
6) Stem/Disc Assembly	YARWAY	Valve S/N A1320	N/A	LSL10108-Vent	1977	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-D10	N/A	LSL10108-Vent	1996	REPLACEMENT	YES
7) Backseat Bushing	YARWAY	Valve S/N A1320	N/A	LSL10108-Vent	1977	REPLACED	NO
Backseat Bushing	YARWAY	HT. No. 5293	N/A	LSL10108-Vent	1996	REPLACEMENT	NO
8) Stem/Disc Assembly	YARWAY	Valve S/N 5821	N/A	2RV-LSH-10112C	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-E12	N/A	2RV-LSH-10112C	1997	REPLACEMENT	YES
9) Backseat Bushing	YARWAY	Valve S/N 5821	N/A	2RV-LSH-10112C	1976	REPLACED	NO

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

1. Owner Pennsylvania Power & Light Co. Date 9/8/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 3 of 4  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 4 of 4  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

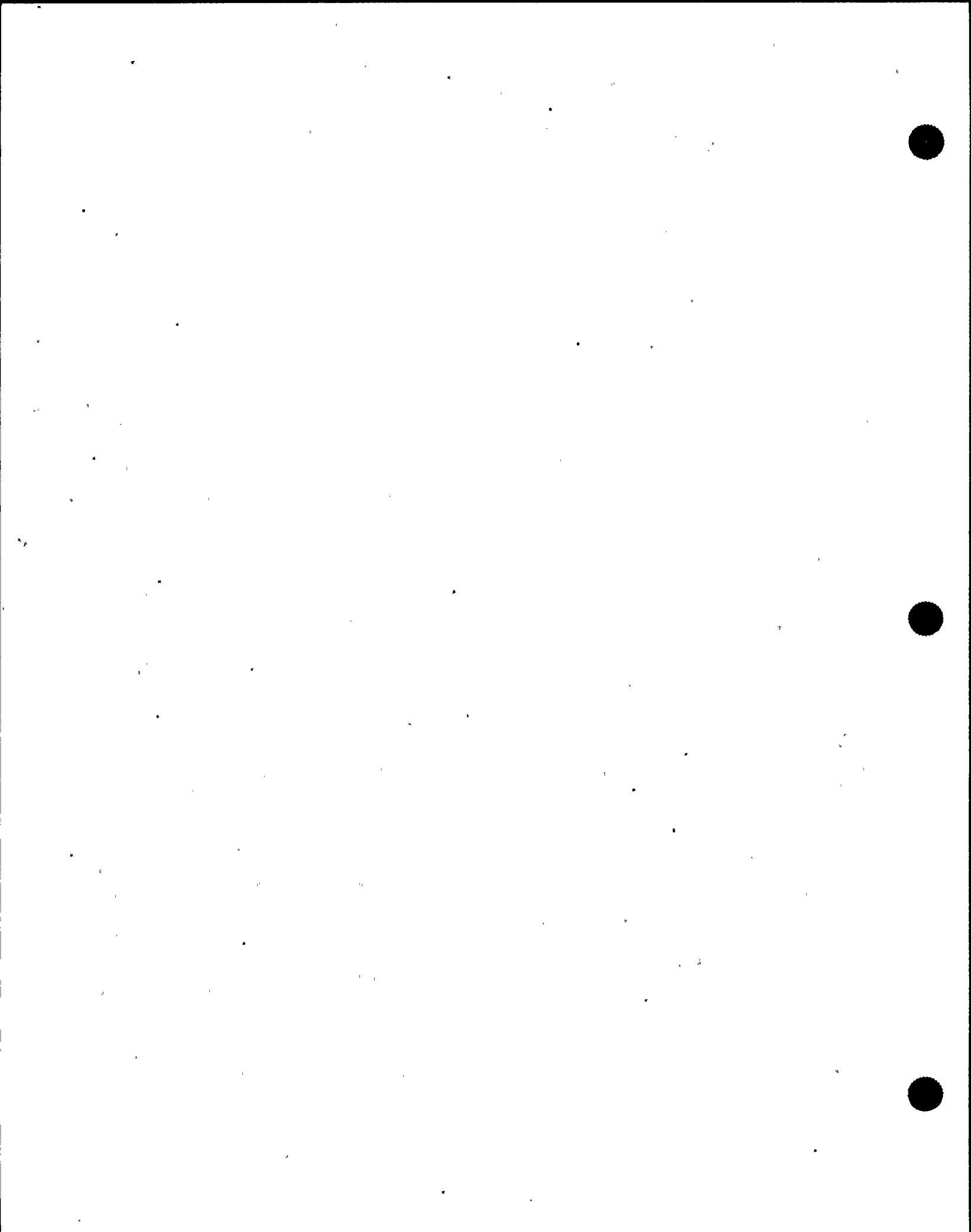
4. Identification of System Main Steam, 183A, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 74 Edition, thru W74 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
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Backseat Bushing	YARWAY	HT. No. 5293	N/A	2RV-LSH-10112C	1984	REPLACEMENT	NO
10) Stem/Disc Assembly	YARWAY	Valve S/N 6118	N/A	DRN-LSH-10112A	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-E21	N/A	DRN-LSH-10112A	1997	REPLACEMENT	YES
11) Backseat Bushing	YARWAY	Valve S/N 6118	N/A	DRN-LSH-10112A	1976	REPLACED	NO
Backseat Bushing	YARWAY	HT. No. 5293	N/A	DRN-LSH-10112A	1996	REPLACEMENT	NO
12) Stem/Disc Assembly	YARWAY	Valve S/N B1764	N/A	1C-LSHH-10112C TOP	1980	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-D14	N/A	1C-LSHH-10112C TOP	1996	REPLACEMENT	YES
13) Backseat Bushing	YARWAY	Valve S/N B1764	N/A	1C-LSHH-10112C TOP	1980	REPLACED	NO
Backseat Bushing	YARWAY	HT. No. 5293	N/A	1C-LSHH-10112C TOP	1996	REPLACEMENT	NO
14) Stem/Disc Assembly	YARWAY	Valve S/N 5663	N/A	PP10100D-R1	1976	REPLACED	YES
Stem/Disc Assembly	YARWAY	91-11-1G-E19	N/A	PP10100D-R1	1997	REPLACEMENT	YES





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

1. Owner           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           9/8/98          

Sheet           4           of           4          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           One          

See Below  
          Repair Organization P.O. No., Job No., etc.          

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Type Code Symbol           N/A          

Authorization No.           N/A          

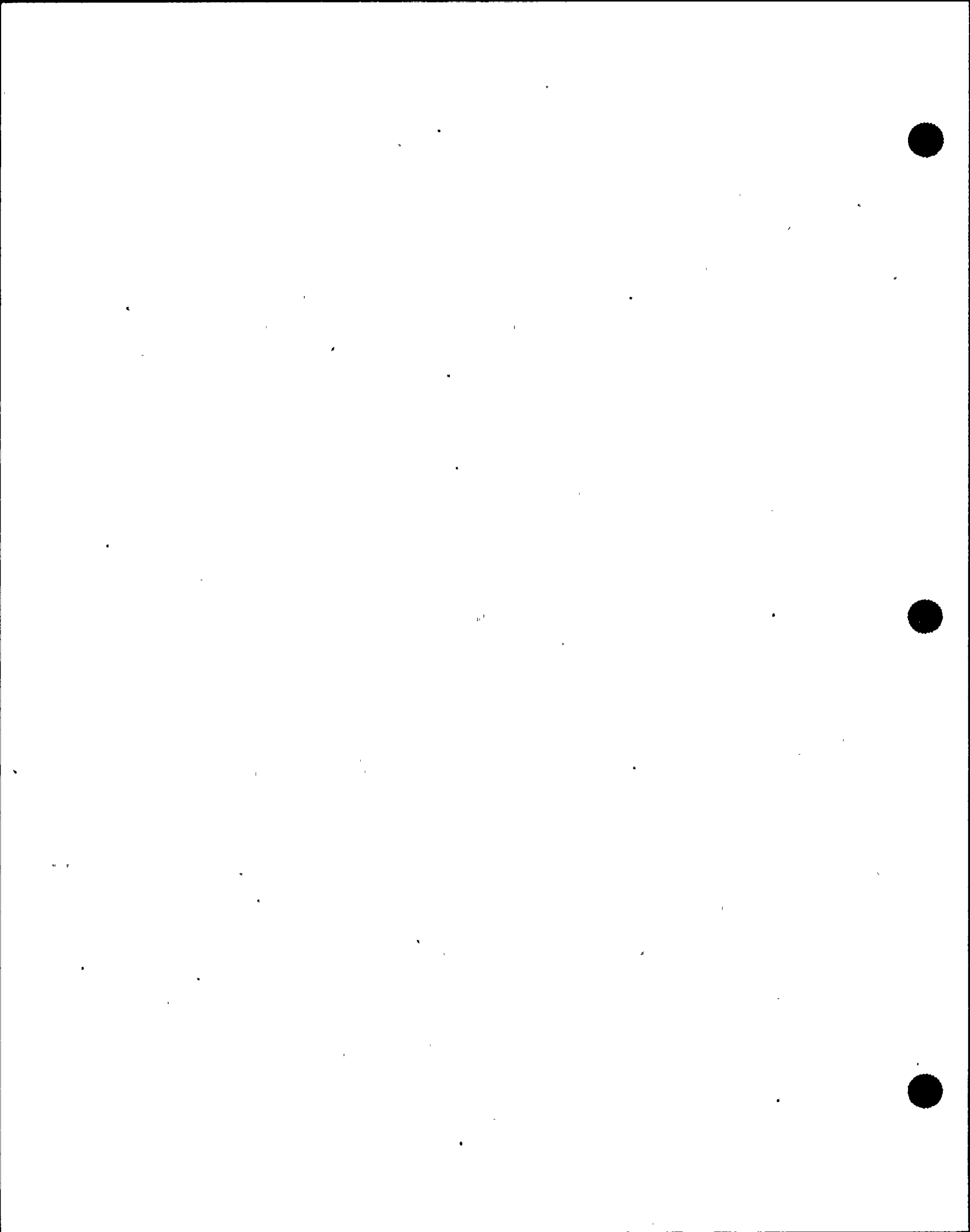
Expiration Date           N/A          

4. Identification of System           Main Steam, 183A, Class 2          

5. (a) Applicable Construction Code           ASME sec. III           19           74           Edition,           thru W74           Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.          

6. Identification of Components Repaired or Replaced and Replacement Components

Items	Susquehanna Work Authorization Number	Code Repair Form No.	Description of Test
1	S70645	97-183-100	NON VT-2 per MI-PS-008
2	S81620	98-183-010	NON VT-2 per MI-PS-008
3	S81620	98-183-010	NON VT-2 per MI-PS-008
4	S81623	98-183-013	NON VT-2 per MI-PS-008
5	S81623	98-183-013	NON VT-2 per MI-PS-008
6	S81618	98-183-016	NON VT-2 per MI-PS-008
7	S81618	98-183-016	NON VT-2 per MI-PS-008
8	S81630	98-183-011	NON VT-2 per MI-PS-008
9	S81630	98-183-011	NON VT-2 per MI-PS-008
10	S81725	98-183-014	NON VT-2 per MI-PS-008
11	S81725	98-183-014	NON VT-2 per MI-PS-008
12	S81725	98-183-015	NON VT-2 per MI-PS-008
13	S81725	98-183-015	NON VT-2 per MI-PS-008
14	S81726	98-183-001	NON VT-2 per MI-PS-008





CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1"  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1995

Date 21 DEC 92 Name Yarway Corporation Signed *F. W. Peszka*  
(NPT Certificate Holder) (Authorized Representative)  
F. W. Peszka

CERTIFICATE OF SHOP INSPECTION

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

of Norwood, MA have inspected these items described in this Data Report on 12-21-92, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

\* Factory Mutual System

Date 12-21-92 Signed *M. S. B...* Commissions PA 2056 NIBIS  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

SHOP ORDER 13258

CORRECTED COPY Sub 10/28/97  
Sub 10/28/97

MASTER(S) 01040

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 1

- Manufactured and certified by YARWAY CORPORATION\*, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760  
\* A SUBSIDIARY OF KEYSTONE INTERNATIONAL, INC. (name and address of NPT Certificate Holder)
- Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24506  
(name and address of purchaser)
- Location of installation STOCK  
(name and address)
- Type 969155-08 AMS5385E (disc) 52,000 PSI MIN. N/A 1997  
(drawing no.) (matl. spec. no.) (tensile strength) (CRM) (year built)
- ASME Code, Section III: 1986 NONE 1 Sub 10/28/97  
(edition) (addenda date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —  
(no.)
- Remarks: FABRICATED IN ACCORDANCE WITH CONSTRUCTION DATA 969005 REV. A, PRESSURE RETAINING PARTS FOR YARWAY SERIES 5500 GLOBE VALVE. THE OWNER OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR RECONCILING THIS CONSTRUCTION DATA WITH THE DESIGN SPECIFICATION FOR THE FACILITY USING THE PARTS.
- Nom. thickness (in.) — Min. design thickness (in.) — Dia. ID (ft. & in.) — Length overall (ft. & in.) —
- When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) AV94-A1	—	(26)	
(2) AV94-A2	—	(27)	
(3) AV94-A3	—	(28)	
(4) AV94-A4	—	(29)	
(5) AV94-A5	—	(30)	
(6) AV94-A6	—	(31)	
(7) AV94-A7	—	(32)	
(8) AV94-A8	—	(33)	
(9) AV94-A9	—	(34)	
(10) AV94-A10	—	(35)	
(11) AV94-A11	—	(36)	
(12) AV94-A12	—	(37)	
(13) AV94-A13	—	(38)	
(14) AV94-A14	—	(39)	
(15) AV94-A15	—	(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

FTI  
OP SUP  
CBK

10. Design pressure \*\* psi. Temp. \*\* °F Hydro. test pressure N/A at temp. °F  
\*\*FOR ANSI CLASS 1500 VALVES (when applicable)

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

(12/86)

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

CERTIFICATION OF DESIGN

Design specifications certified by (SEE REMARKS) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)  
Design report\* certified by N/A P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) STEM AND DISC ASSEMBLIES, 1 INCH  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires NOVEMBER 14, 1998  
Date 10/24/97 Name YARWAY CORPORATION Signed [Signature]  
(NPT Certificate Holder) (authorized representative)  
F. W. PESZKA

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of  
PENNSYLVANIA and employed by \* ARKWRIGHT MUTUAL INSURANCE COMPANY  
of NORWOOD, MA have inspected these items described in this Data Report on 10/24/97  
and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the  
ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in  
this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

\*FACTORY MUTUAL ENGINEERING ASSOCIATION

10/24/97 Signed [Signature] Commissions NB9541"N", PA2389  
10/28/97 (Authorized Inspector) (Natl. Bd. (incl. endorsements) state or prov. and no.)  
NB 11207 "N" PA 2607

FTI  
OP SUP  
CBR

THIS SIDE NOT APPLICABLE.

FORM-N-2 (back)

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. (Conv. or Conc.)

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

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

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

7. Jacket Closure: \_\_\_\_\_ (Describe as ogee and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure<sup>2</sup> \_\_\_\_\_ psi at \_\_\_\_\_ °F Drop Weight \_\_\_\_\_ Charpy Impact \_\_\_\_\_ ft-lb at temp. of \_\_\_\_\_ °F

Items 9 and 10 to be completed for tube sections

9. Tube Sheets: Stationary. Material \_\_\_\_\_ Dia. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_ (Kind & Spec. No.) (Subject to pressure) (Welded, Bolted)

Floating. Material \_\_\_\_\_ Dia. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Attachment \_\_\_\_\_

10. Tubes: Material \_\_\_\_\_ Dia. \_\_\_\_\_ Thickness \_\_\_\_\_ in. Number \_\_\_\_\_ Type \_\_\_\_\_ (Str. or U)

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

11. Shell: Material \_\_\_\_\_ 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. \_\_\_\_\_ Efficiency \_\_\_\_\_ %

Girth \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ No. of Courses \_\_\_\_\_

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

Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Press. (Conv. or Conc.)

(a) Top, bottom, ends \_\_\_\_\_

(b) Channel \_\_\_\_\_

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

14. Design pressure<sup>2</sup> \_\_\_\_\_ psi at \_\_\_\_\_ °F Drop Weight \_\_\_\_\_ Charpy Impact \_\_\_\_\_ ft-lb at temp. of \_\_\_\_\_ °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

16. Nozzles: Table with columns: Purpose (Inlet, Outlet, Drain), Number, Dia. or Size, Type, Material, Thickness, Reinforcement Material, How Attached

17. Inspection Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

Openings: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

18. Supports: Skirt \_\_\_\_\_ (Yes or No) Lugs \_\_\_\_\_ (Number) Legs \_\_\_\_\_ (Number) Other \_\_\_\_\_ (Describe) Attached \_\_\_\_\_ (Where & How)

<sup>1</sup> If Postweld Heat-Treated. <sup>2</sup> List other internal or external pressure with coincident temperature when applicable.

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

As required by the Provision of the ASME Code Rules, Section III, Div. 1

REGISTER 70425

SHOP ORDER 59494

Yarway Corporation, A Subsidiary of Keystone International, Inc.  
 480 Norristown Road, Blue Bell, PA 19422  
 (Name and address of NPT Certificate Holder)

(b) Manufactured for Penna. Power & Light Co., Susquehanna SES, Berwick, PA 18603  
 (Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part 91-11-1G-C1 thru C7 Nat'l Bd. No. ----  
 045122,  
 (a) Constructed According to Drawing No. 966238-02 Drawing Prepared by Yarway Corporation  
 (b) Description of Part Inspected Stem Assembly, 1" - 5500 - Qty: 7  
 (c) Applicable ASME Code: Section III, Edition 1974, Addenda date W74, Case No. -- Class 1

3. Remarks: Renewal parts for nuclear globe valve  
 (Brief description of service for which component was designed)  
 Material: Disc, AMS 5385E; Heat Code: 91-11-1G

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

Date 28 June 1995 Signed Yarway Corporation By F.W. Peszka  
(NPT Certificate Holder) F. W. Peszka  
Certificate of Authorization Expires Nov. 14, 1995 Certificate of Authorization No. N-2450

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Pennsylvania Power & Light Co.

Stress analysis report on file at Not Required

Design specifications certified by	John R. Schmiedel	PA	19370E
	Richard O. Schlueter	PA	26382E
	Sidney Arthur Copland	PA	19877E
Stress analysis report certified by	George Loos	NJ	23225

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Co. of Norwood, MA\* have inspected the part of a pressure vessel described in this Partial Data Report on JUNE 28 1995, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

\* Factory Mutual Engineering Association

Date JUNE 28 1995

Inspector's Signature: William R. Rogerson  
 Commissions NB7980 PA3204 NBSI IS  
 National Board, State, Province and No.

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



**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\***  
As Required by the Provisions of the ASME Code, Section III  
Not To Exceed One Day's Production

1. Manufactured and certified by Yarway Corporation,\* 480 Norristown Rd., Blue Bell, PA 19422  
(name and address of NPT Certificate Holder)
2. Manufactured for Framatome Technologies, Lynchburg, VA 24506  
(name and address of purchaser)
3. Location of installation Stock  
(name and address)
4. Type 969155-02 AMS5385E (disc) 52,000 PSI Min. N/A 1996  
(drawing no.) (mat'l. spec. no.) (tensile strength) (ICRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.
8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

\*A Subsidiary of Keystone International, Inc.

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 91-11-1G-D1	- - - -
(2) 91-11-1G-D2	- - - -
(3) 91-11-1G-D3	- - - -
(4) 91-11-1G-D4	- - - -
(5) 91-11-1G-D5	- - - -
(6) 91-11-1G-D6	- - - -
(7) 91-11-1G-D7	- - - -
(8) 91-11-1G-D8	- - - -
(9) 91-11-1G-D9	- - - -
(10) 91-11-1G-D10	- - - -
(11) 91-11-1G-D11	- - - -
(12) 91-11-1G-D12	- - - -
(13) 91-11-1G-D13	- - - -
(14) 91-11-1G-D14	- - - -
(15) 91-11-1G-D15	- - - -
(16) 91-11-1G-D16	- - - -
(17) 91-11-1G-D17	- - - -
(18) 91-11-1G-D18	- - - -
(19) 91-11-1G-D19	- - - -
(20) 91-11-1G-D20	- - - -
(21) 91-11-1G-D21	- - - -
(22) 91-11-1G-D22	- - - -
(23) 91-11-1G-D23	- - - -
(24) 91-11-1G-D24	- - - -
(25)	- - - -

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
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(49)	
(50)	

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CBR

10. Design pressure \*        psi. Temp.        °F. Hydro. test pressure N/A at temp         
(when applicable)

\* For ANSI Class 1500 Valves  
\* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 2 and 3 on this Data R is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1 inch  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1998

Date 22 July 1996 Name Yarway Corporation Signed F. W. Peszka  
(NPT Certificate Holder) (Authorized Representative)

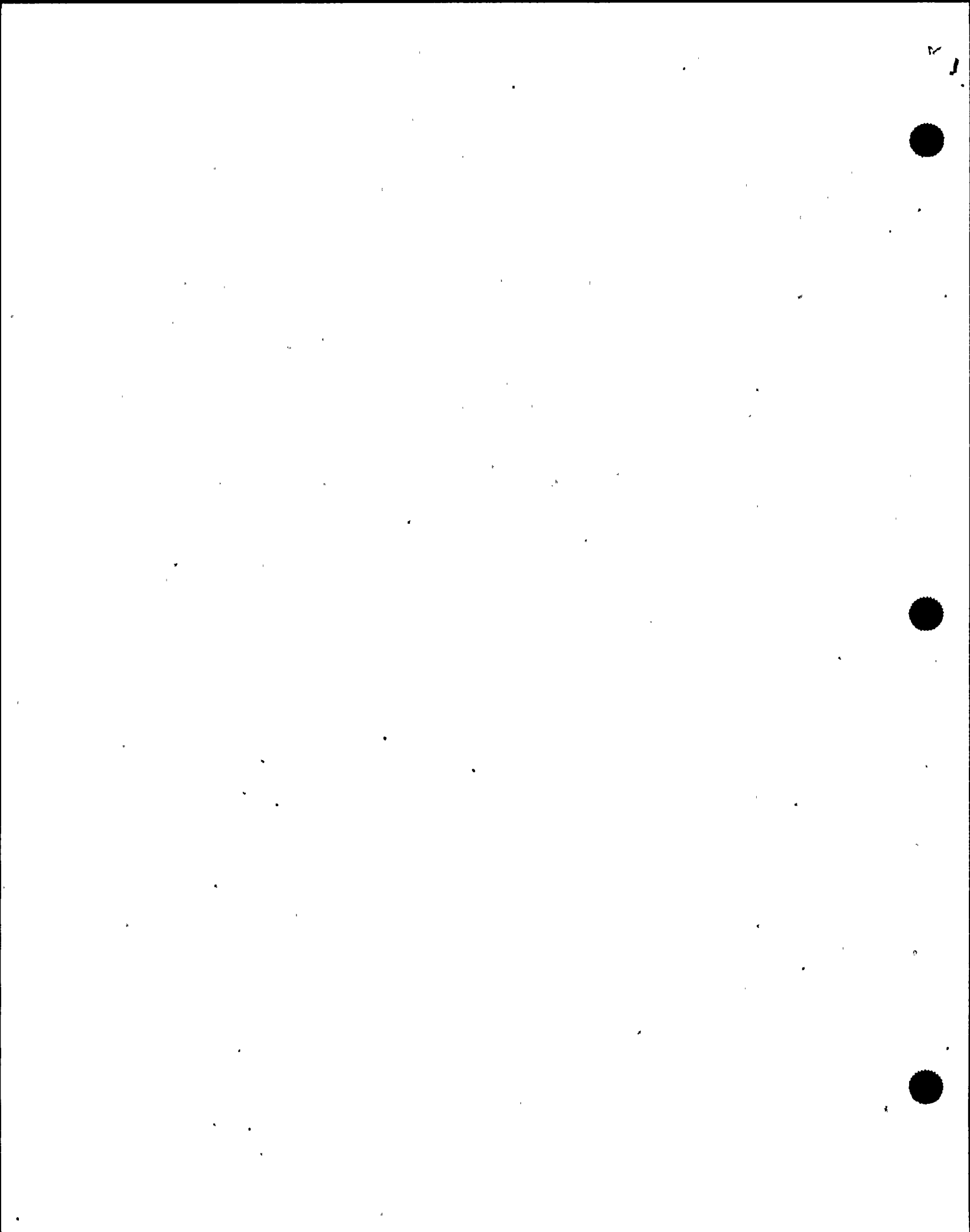
CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
Pennsylvania and employed by Arkwright Mutual Insurance Company\*  
of Norwood, MA have inspected these items described in this Data Report on 22 July 96 and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
III. Each part listed has been authorized for stamping on the date shown above.

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

Date 22 July 96 Signed [Signature] \* Factory Mutual Engineering Association  
(Authorized Inspector) Commissions NB 11207 INA P2267  
(Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FTI  
OP SUP  
CBR



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

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

Pg. 1 of 1

1. Manufactured and certified by YARWAY CORPORATION, \* 480 Norristown Road, Blue Bell, PA 19422-0761  
(name and address of NPT Certificate Holder)
2. Manufactured for Framatome Technologies, Lynchburg, VA 24506  
(name and address of purchaser)
3. Location of installation Stock  
(name and address)
4. Type 969155-06 AMS5385E (disc) 52,000 Min. N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.  
\* A Subsidiary of Keystone International, Inc.
8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 91-11-1G-E1	- - - -
(2) 91-11-1G-E2	- - - -
(3) 91-11-1G-E3	- - - -
(4) 91-11-1G-E4	- - - -
(5) 91-11-1G-E5	- - - -
(6) 91-11-1G-E6	- - - -
(7) 91-11-1G-E7	- - - -
(8) 91-11-1G-E8	- - - -
(9) 91-11-1G-E9	- - - -
(10) 91-11-1G-E10	- - - -
(11) 91-11-1G-E11	- - - -
(12) 91-11-1G-E12	- - - -
(13) 91-11-1G-E13	- - - -
(14) 91-11-1G-E14	- - - -
(15) 91-11-1G-E15	- - - -
(16) 91-11-1G-E16	- - - -
(17) 91-11-1G-E17	- - - -
(18) 91-11-1G-E18	- - - -
(19) 91-11-1G-E19	- - - -
(20) 91-11-1G-E20	- - - -
(21) 91-11-1G-E21	- - - -
(22) 91-11-1G-E22	- - - -
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
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(49)	
(50)	

FTI  
OP SUP  
CBR

10. Design pressure \* ---- psi. Temp. \* ---- °F. Hydro. test pressure N/A at temp. °F  
For ANSI Class 1500 Valves  
(when applicable)

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

(12/86)

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

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1 inch conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1998

Date 05/30/97 Name YARWAY CORPORATION Signed F. W. Peszka  
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY \* of Norwood, MA have inspected these items described in this Data Report on 05/30/97, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 05/30/97 Signed [Signature] Commissions NR9541'N' PA2389  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)



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

1. Owner Pennsylvania Power & Light Co. Date 8/22/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 2  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 2 of 2  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Main Steam Isolation Valves, 183B, Class 3

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda,            Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden. See Sheet 2

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)
1) Pipe Support	Bechtel	N/A	N/A	SPHCC 136-H2007	1982	REPLACED	NO
Pipe Support	PP&L	N/A	N/A	SPHCC 136-H2007	1998	REPLACEMENT	NO
2) Pipe Support	Bechtel	N/A	N/A	SPHCC 136-H2016	1982	REPLACED	NO
Pipe Support	PP&L	N/A	N/A	SPHCC 136-H2007	1998	REPLACEMENT	NO

7. Description of Work Replaced existing clip/replaced hanger rods with equivalent material.

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

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

**CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 25, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

**CERTIFICATION OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period MAY 8 1998 to MAY 28 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

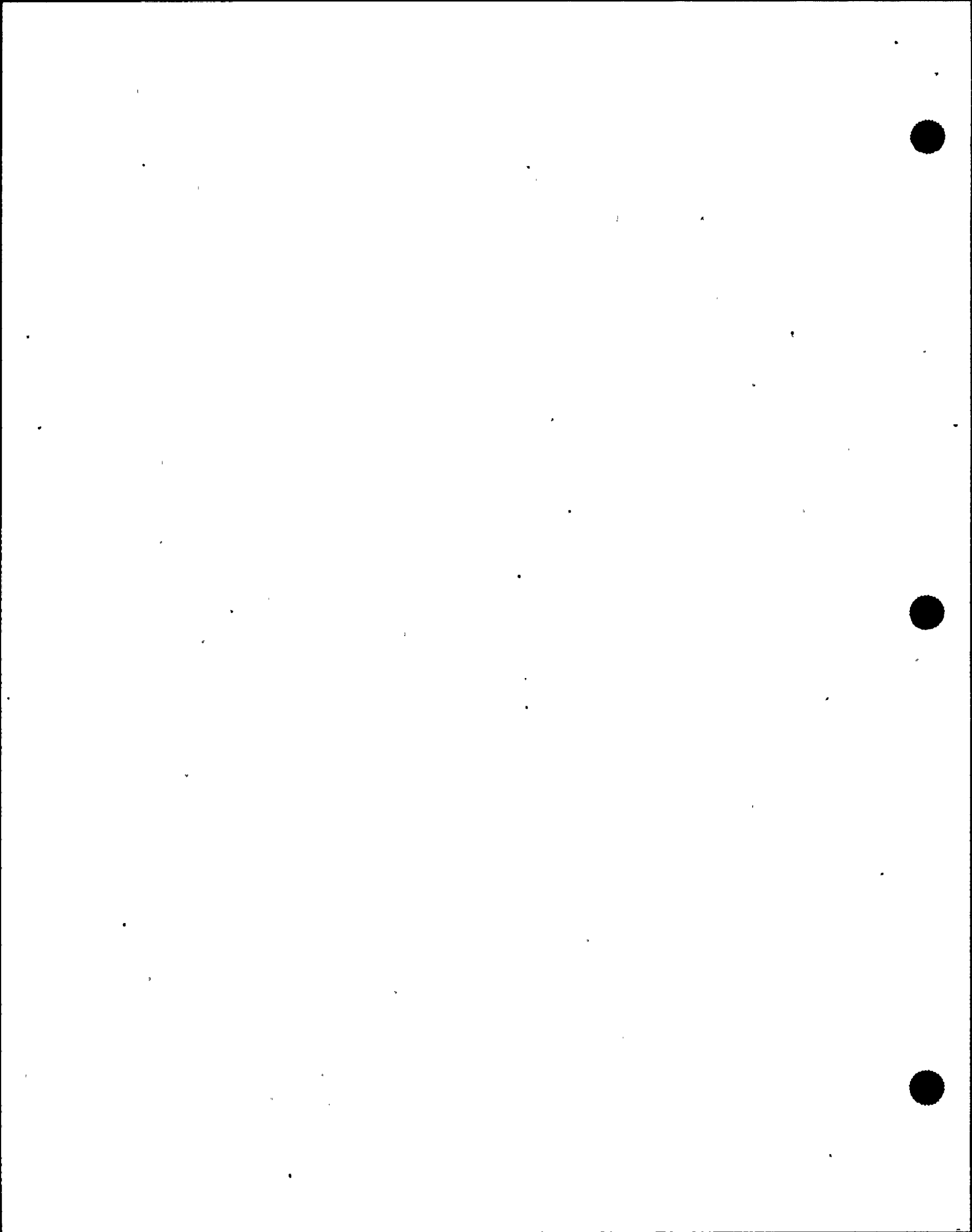
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury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

[Signature] Commissions NB 7525 1BNA PA2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 28 1998







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

1. Owner Pennsylvania Power & Light Co.  
Name

Date 8/28/98

Two North Ninth St., Allentown, PA 18101  
Address

Sheet 1 of 3

2. Plant Susquehanna Steam Electric Station  
Name

Unit One

PO Box 467, Berwick, PA 18603  
Address

See Sheet 3 of 3

Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name

Type Code Symbol N/A

Two North Ninth St., Allentown, PA 18101  
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System Auto Pressure Blowdown System 183E, Class 3

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

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)
-------------------	----------------------	-------------------------	--------------------	----------------------	------------	------------------------------------	-------------------------------

1) Small Pipe Subassembly	Bechtel	N/A	N/A	SP HCC-138-3	1982	REPLACED	YES
Small Pipe Subassembly	PP&L	HT No. 460611	N/A	SP-HCC-138-3	1998	REPLACEMENT	NO
2) 1" Check Valve	Contromatics	84632-3-18	N/A	141F040N	1976	REPLACED	YES
1" Check Valve	Anchor/Darling	EZ612-1-1	N/A	141F040N	1996	REPLACEMENT	YES
3) Pipe Support	Bechtel	N/A	N/A	SP-HCC-133-H2005	1982	REPLACED	NO
Pipe Support	PP&L	N/A	N/A	SP-HCC-133-H2005	1998	REPLACEMENT	NO

7. Description of Work Replaced Pipe/Check Valve/Hanger Clip with Equivalent Parts.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 3  
Other  Pressure N/A psi Test Temp. N/A °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

CONSTRUCTION CODE FOR CONTROMATICS VALVE AND ANCHOR DARLING VALVE IS ASME

SECTION III 1974 ED. S'75 ADD. NO CODE CASES.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Sept 10, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period OCT 8 1996 to MAY 21 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 1BNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date SEPT. 11 1998

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

1. Owner Pennsylvania Power & Light Co. Date 8/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 3 of 3  
Address Repair Organization P.O. No., Job No., etc.

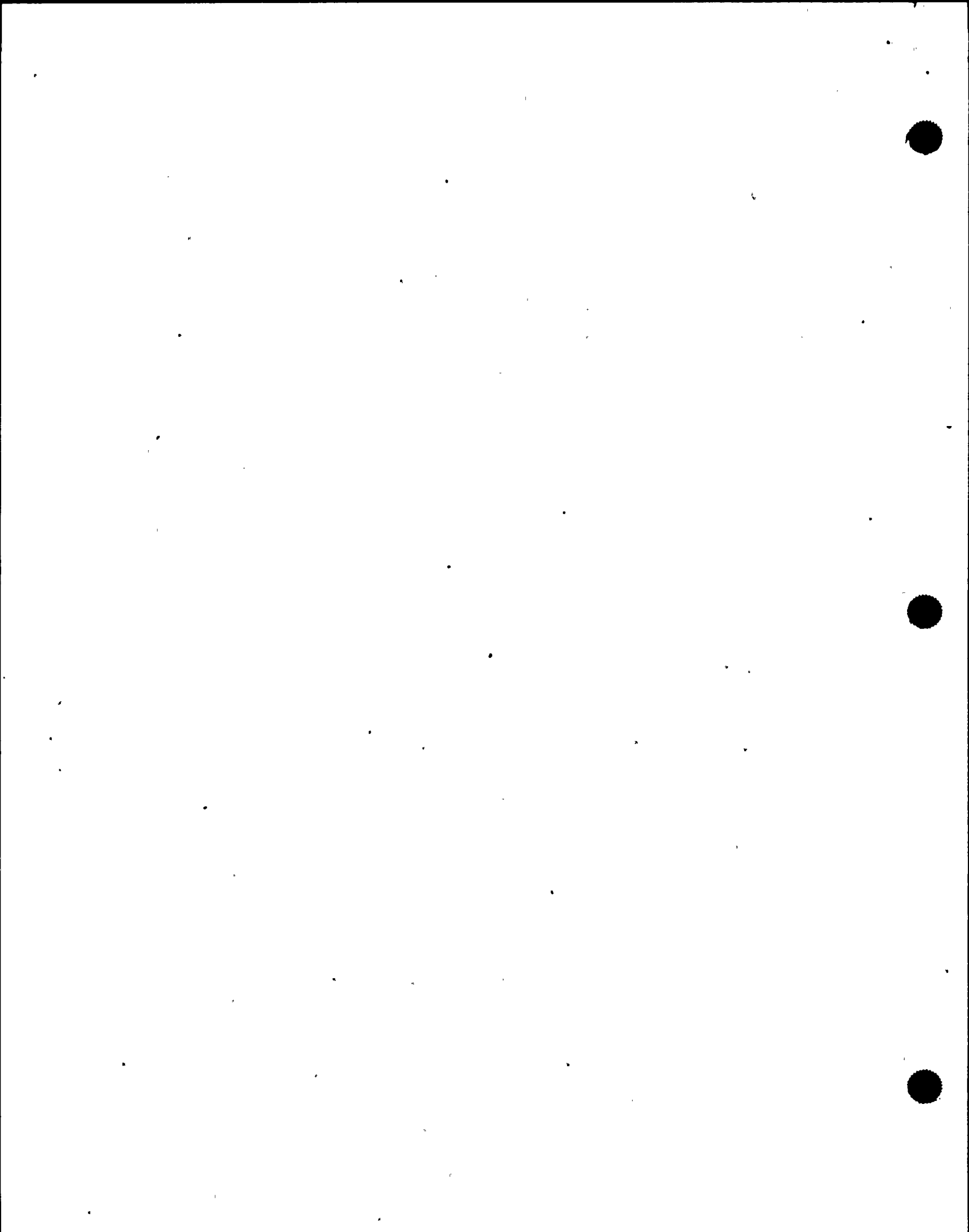
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Auto Pressure Blowdown System 183E, Class 3

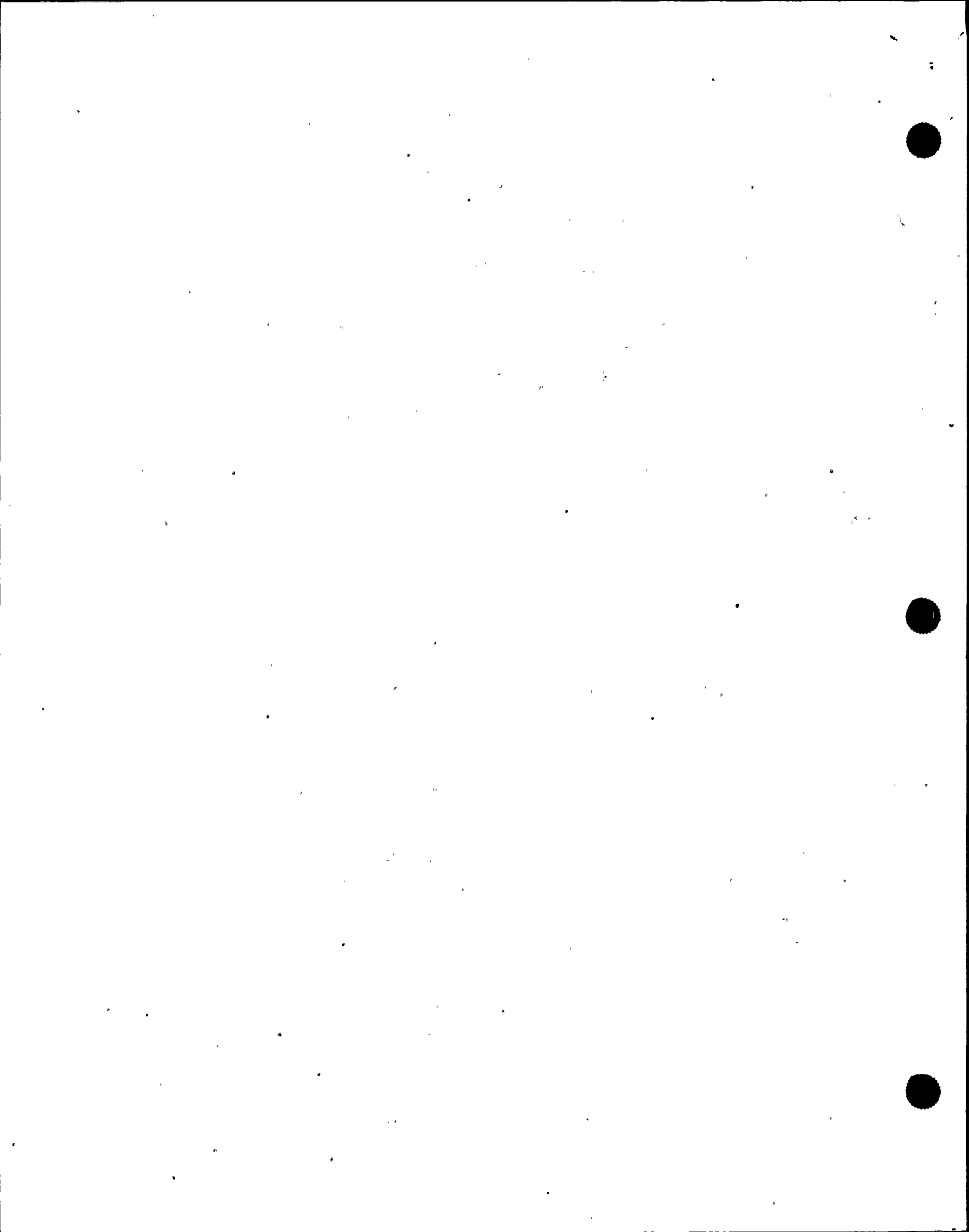
5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, no adden.

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4) Small Pipe Assembly	Bechtel	N/A	N/A	SP-HCC-133-2	1982	REPLACED	YES
Small Pipe Assembly	PP&L	HT No. 461759	N/A	SP-HCC-133-2	1998	REPLACEMENT	NO

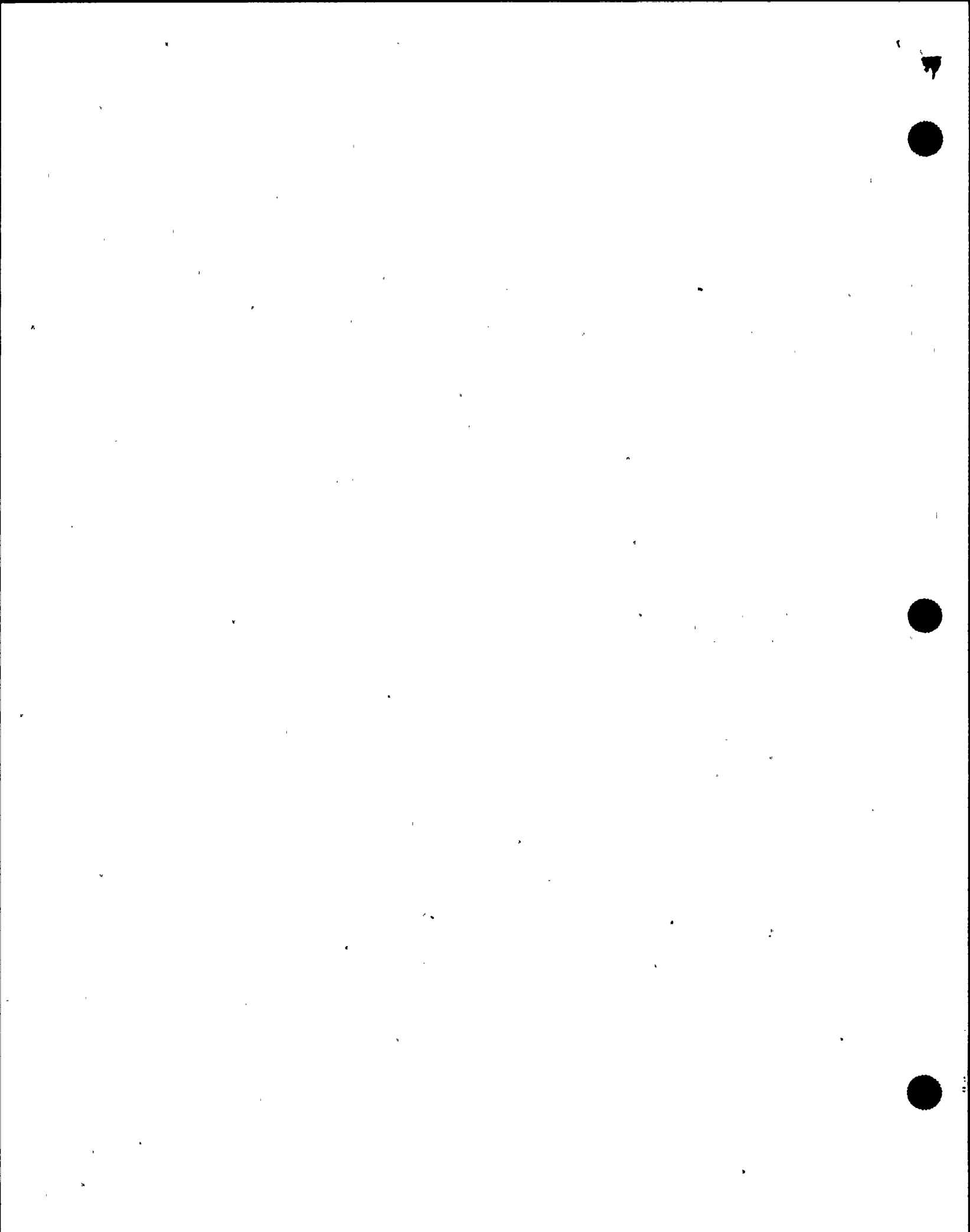












FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Hex Bolts Ht. #V-6B	SA193-B8	Texas Bolt Co.	
Hex Nuts Ht. #V-14	SA194-B	Texas Bolt Co.	
(d) Other Parts			
Body Ht. #709542	SA479-316	Carpenter Technology Corp.	
Ball Ht. #T-69A	SA479-316	Carpenter Technology Corp.	
End Pieces Ht. #980036	SA479-316	Carpenter Technology Corp.	
S/N - 1 & 2			

8. Hydrostatic test 1100 psi.

CERTIFICATION OF DESIGN

Design information on file at Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701  
 Stress analysis report on file at N/A  
 Design specifications certified by R.V. Parekh (1) Prof. Eng. State PA Reg. No. 29882-E  
 Stress analysis report certified by N/A (1) Prof. Eng. State PA Reg. No. 29882-E  
 (1) Signature not required. List name only.

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

Date 3/28 19 96 Signed Anchor/Darling Valve Co. by R. L. Stannett  
 (Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/98

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of PA of Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 12-20-95 3-29-96, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-29 19 96

Charles Young  
 (Inspector)  
 Charles Young

Commissions Pennsylvania 2392  
 (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           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           8/28/98            
Sheet           1           of           4          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           One            
See Sheet 4 of 4  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

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

4. Identification of System           Main Stop Valves, 193G, Class 2          

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition, thru W72 Addenda,           No           Code  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, no adden.           Code

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)
1) SID Root Valve	Yarway	4919	N/A	1RV-PDT-10101D	1976	Replaced	Yes
SID Root Valve	Yarway	C2763	N/A	1RV-PDT-10101D	1992	Replacement	Yes
2) SID Root Valve	Yarway	4937	N/A	3RV-PDT-10101D	1976	Replaced	Yes
SID Root Valve	Yarway	C2783	N/A	3RV-PDT-10101D	1992	Replacement	Yes
3) Small Pipe Assembly	Bechtel	N/A	N/A	SP-DBB-101-3	1982	Replaced	Yes
Small Pipe Assembly	PP&L	HT No. 663044	N/A	SP-DBB-101-3	1998	Replacement	No

7. Description of Work           Replaced Valves, Stem/Disc Assemblies and Back Seat Bushings with like Components.          

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  See Sheet 4 of 4  
Other  Pressure           N/A           psi Test Temp.           N/A           °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED.

Applicable Manufacturer's Data Reports to be attached

REPLACEMENT CODE FOR YARWAY PARTS IS ASME SECTION III, CLI 1986 ED.

REPLACEMENT CODE FOR YARWAY VALVES IS ASME SEC. III, CLASS I, 1974 EDITION WITH  
W74 ADDENDA.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 31, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of Norwood, Massachusetts have inspected the components described in this Owner's Report during the period MARCH 23, 1998 to MAY 25, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date SEPT 4 1998

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

1. Owner Pennsylvania Power & Light Co. Date 8/28/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 2 of 4  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 See Sheet 4 of 4  
Address Repair Organization P.O. No., Job No., etc.

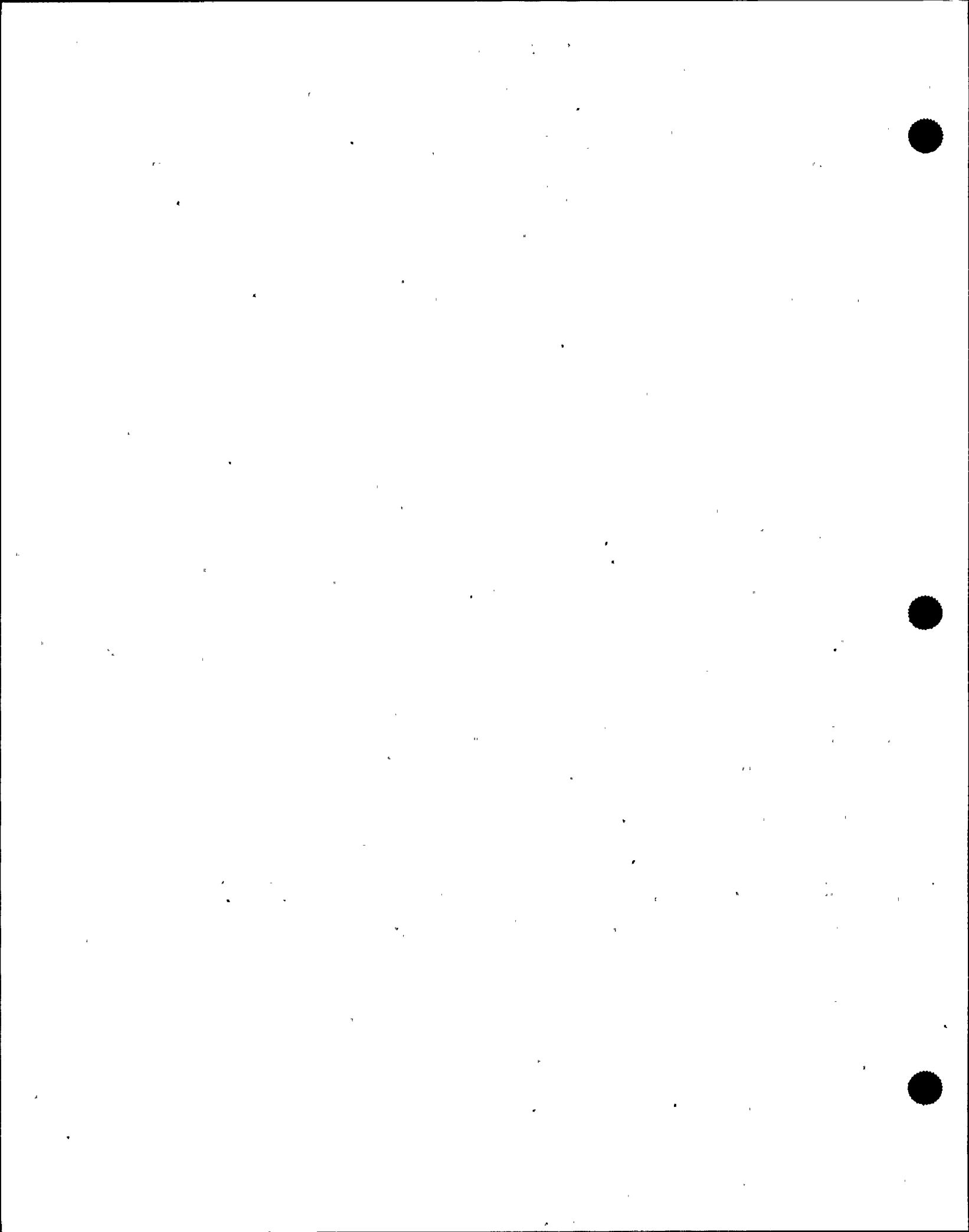
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol N/A  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System Main Stop Valves, 193G, Class 2

5. (a) Applicable Construction Code ASME sec. III 19 71 Edition, thru W72 Addenda, No Code  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, No adden. Case

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4) Stem/Disc Assembly	Yarway	5445	N/A	3RV-PDT-10101C	1976	Replaced	Yes
Stem/Disc Assembly	Yarway	91-11-1G-E17	N/A	3RV-PDT-10101C	1997	Replacement	Yes
5) Backseat Bushing	Yarway	N/A	N/A	3RV-PDT-10101C	1976	Replaced	No
Backseat Bushing	Yarway	N/A	N/A	3RV-PDT-10101C	1996	Replacement	No
6) Stem/Disc Assembly	Yarway	5441	N/A	1RV-PDT-10101C	1976	Replaced	Yes
Stem/Disc Assembly	Yarway	91-11-1G-E14	N/A	1RV-PDT-10101C	1997	Replacement	Yes
7) Backseat Bushing	Yarway	N/A	N/A	1RV-PDT-10101C	1976	Replaced	No
Backseat Bushing	Yarway	N/A	N/A	1RV-PDT-10101C	1996	Replacement	No
8) Stem/Disc Assembly	Yarway	5296	N/A	3RV-PDT-10101A	1976	Replaced	Yes
Stem/Disc Assembly	Yarway	91-11-1G-D11	N/A	3RV-DPT-10101A	1996	Replacement	Yes
9) Backseat Bushing	Yarway	N/A	N/A	3RV-PDT-10101A	1976	Replaced	No



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

1. Owner           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           8/28/98          

Sheet           3           of           4          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           One          

          See Sheet 4 of 4            
Repar Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Type Code Symbol           N/A          

Authorization No.           N/A          

Expiration Date           N/A          

4. Identification of System           Main Stop Valves, 193G, Class 2          

5. (a) Applicable Construction Code           ASME sec. III           19           71           Edition,           thru W72          . Addenda,           No           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, No adden.           Code Case

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)
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Backseat Bushing	Yarway	N/A	N/A	3RV-PDT-10101A	1996	Replacement	No
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FORM NPV-1 N CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PUMPS OR VALVES

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

SHOP ORDER 01195

REGISTER 16252

1. Manufactured by Yarway Corporation, Norristown & Narcissa Rds., Blue Bell, PA 19422  
 (Name and Address of N Certificate Holder)

2. Manufactured for Penna. Power & Light Co., Two N. 9th St., Allentown, PA 18101  
 (Name and Address of Purchaser or Owner)

3. Location of Installation Susquehanna SES, Berwick, PA 18603  
 (Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 1 (Inch) Outlet Size 1 (Inch)

(a) Model No. 5615B-SA105 (b) N Certificate Holder's C2760 (c) Canadian 111082/None (d) Drawing 1 (e) Nat'l. (f) Year 1992

Series No. C2783 Registration No. 1 (d) Drawing No. 1 (e) Class 1 (f) Nat'l. Bd. No. 1 (g) Year 1992

or Type No. No. No. No. (e) Class 1 (f) Nat'l. Bd. No. 1 (g) Year 1992

Nuclear Service Globe Valves

(Brief description of service for which equipment was designed)

CERTIFICATE OF COMPLIANCE			
Design Conditions <u>1500</u> psi		F or Valve Pressure Class <u>1500</u>	
We certify that the equipment made in this report is in compliance with the ASME Code for Nuclear Power Plant Components, Edition 1972, Code Case No. <u>1572</u>			
Cold Working Pressure <u>3600</u> psi		Code Case No. <u>1572</u>	
Pressure Retaining Parts			
Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
<u>690</u>	<u>AMS 5385E</u>	<u>Southern Tool, Inc.</u>	<u>Disc</u>
(b) Forgings			
<u>E87</u>	<u>ASME SA105</u>	<u>Endicott Forging &amp; Body</u>	<u>Body</u>
	<u>SHOP INSTRUCTION</u>	<u>MFTACORP Inc.</u>	

Reference is made to the ASME Code, Section III, Div. 1, and the ASME Code for Nuclear Power Plant Components, Edition 1972, Code Case No. 1572, which are hereby incorporated by reference into this report. The Inspector hereby certifies that the equipment made in this report is in compliance with the ASME Code for Nuclear Power Plant Components, Edition 1972, Code Case No. 1572, and the ASME Code, Section III, Div. 1, and the ASME Code for Nuclear Power Plant Components, Edition 1972, Code Case No. 1572, and the ASME Code, Section III, Div. 1, and the ASME Code for Nuclear Power Plant Components, Edition 1972, Code Case No. 1572.





**FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCE**  
As Required by the Provisions of the ASME Code, Section III  
Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by YARWAY CORPORATION, \* 480 Norristown Road, Blue Bell, PA 19422-0760  
(name and address of NPT Certificate Holder)
2. Manufactured for Framatome Technologies, Lynchburg, VA 24506  
(name and address of purchaser)
3. Location of installation Stock  
(name and address)
4. Type 969155-06 AMS5385E (disc) 52,000 Min. N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.  
\* A Subsidiary of Keystone International, Inc.
8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 91-11-1G-E1	- - - -
(2) 91-11-1G-E2	- - - -
(3) 91-11-1G-E3	- - - -
(4) 91-11-1G-E4	- - - -
(5) 91-11-1G-E5	- - - -
(6) 91-11-1G-E6	- - - -
(7) 91-11-1G-E7	- - - -
(8) 91-11-1G-E8	- - - -
(9) 91-11-1G-E9	- - - -
(10) 91-11-1G-E10	- - - -
(11) 91-11-1G-E11	- - - -
(12) 91-11-1G-E12	- - - -
(13) 91-11-1G-E13	- - - -
(14) 91-11-1G-E14	- - - -
(15) 91-11-1G-E15	- - - -
(16) 91-11-1G-E16	- - - -
(17) 91-11-1G-E17	- - - -
(18) 91-11-1G-E18	- - - -
(19) 91-11-1G-E19	- - - -
(20) 91-11-1G-E20	- - - -
(21) 91-11-1G-E21	- - - -
(22) 91-11-1G-E22	- - - -
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

FTI
OP SUP
CBR

Design pressure \*        psi. Temp. \*        °F. Hydro. test pressure N/A at temp. °F  
(when applicable)

**For ANSI Class 1500 Valves**

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

(12/86)

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

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)  
Design report\* certified by N/A P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1 inch  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1998  
Date 05/30/97 Name YARWAY CORPORATION Signed F. W. Peszka  
(NPT Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
PENNSYLVANIA and employed by ARKWRIGHT MUTUAL INSURANCE COMPANY \*  
of Norwood, MA have inspected these items described in this Data Report on 05/30/97, and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
III. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described  
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
any kind arising from or connected with this inspection. \* Factory Mutual Engineering Association

Date 05/30/97 Signed [Signature] Commissions NR9541'N' PA2389  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FTI  
OP SUP  
CER

Stock Disc Assembly

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

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

1. Manufactured and certified by Yarway Corporation,\* 480 Norristown Rd., Blue Bell, PA 19422  
(Name and address of NPT Certificate Holder)
2. Manufactured for Framatome Technologies, Lynchburg, VA 24506  
(Name and address of purchaser)
3. Location of installation Stock  
(Name and address)
4. Type 969155-02 AMS5385E (disc) 52,000 PSI Min. N/A 1996  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)

7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.

\*A Subsidiary of Keystone International, Inc.

8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 91-11-1G-D1	----
(2) 91-11-1G-D2	----
(3) 91-11-1G-D3	----
(4) 91-11-1G-D4	----
(5) 91-11-1G-D5	----
(6) 91-11-1G-D6	----
(7) 91-11-1G-D7	----
(8) 91-11-1G-D8	----
(9) 91-11-1G-D9	----
(10) 91-11-1G-D10	----
(11) 91-11-1G-D11	----
(12) 91-11-1G-D12	----
(13) 91-11-1G-D13	----
(14) 91-11-1G-D14	----
(15) 91-11-1G-D15	----
(16) 91-11-1G-D16	----
(17) 91-11-1G-D17	----
(18) 91-11-1G-D18	----
(19) 91-11-1G-D19	----
(20) 91-11-1G-D20	----
(21) 91-11-1G-D21	----
(22) 91-11-1G-D22	----
(23) 91-11-1G-D23	----
(24) 91-11-1G-D24	----
(25)	----

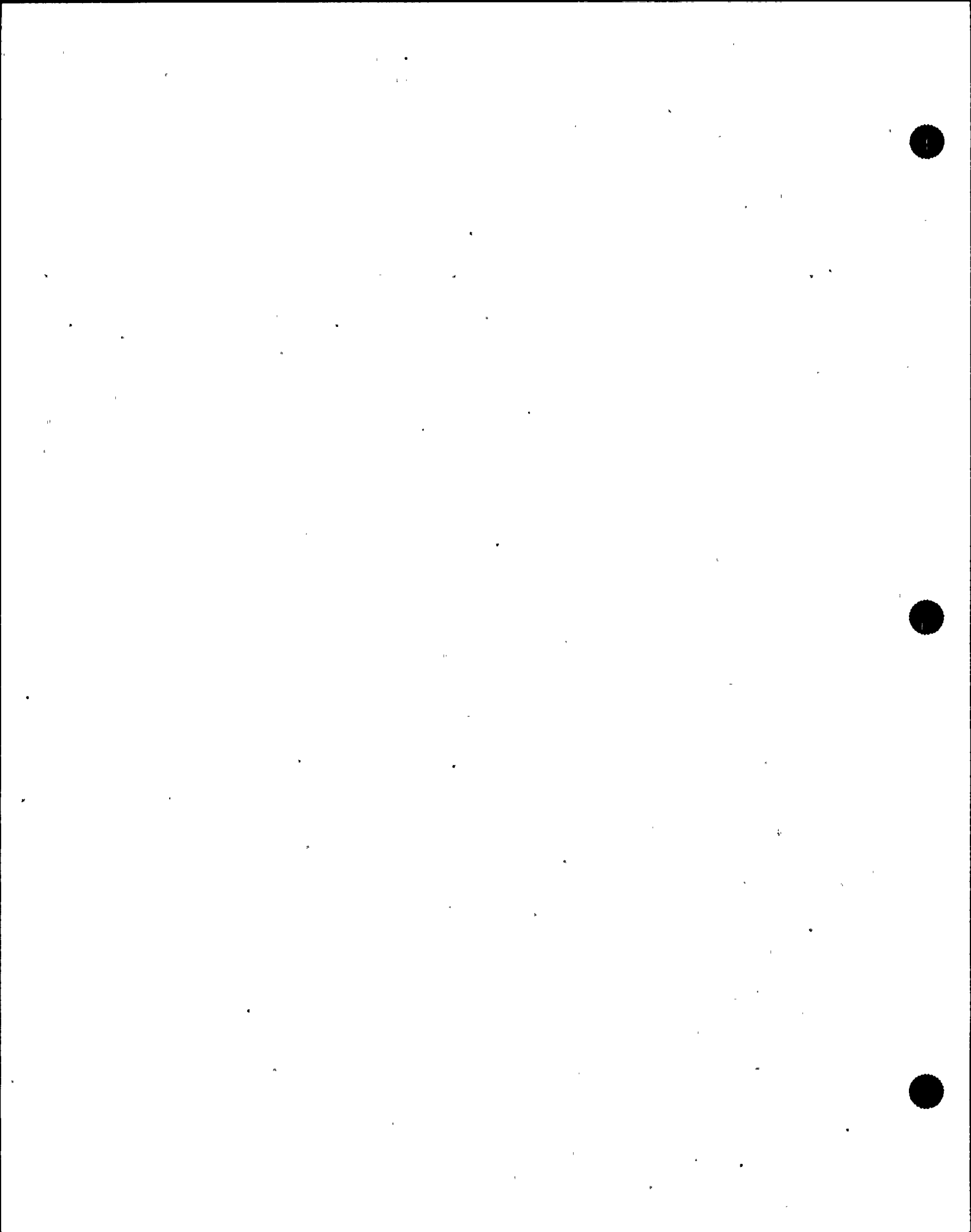
Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	----
(27)	----
(28)	----
(29)	----
(30)	----
(31)	----
(32)	----
(33)	----
(34)	----
(35)	----
(36)	----
(37)	----
(38)	----
(39)	----
(40)	----
(41)	----
(42)	----
(43)	----
(44)	----
(45)	----
(46)	----
(47)	----
(48)	----
(49)	----
(50)	----

FTL  
OP SUP  
CBR

10. Design pressure \* \_\_\_\_\_ psi. Temp. \_\_\_\_\_ °F. Hydro. test pressure N/A at temp \_\_\_\_\_  
(when applicable)

\* For ANSI Class 1500 Valves

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



CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1 inch  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1998

Date 22 July 1996 Name Yarway Corporation Signed F. W. Peszka  
(NPT Certificate Holder) (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of  
Pennsylvania and employed by Arkwright Mutual Insurance Company\*  
of Norwood, MA have inspected these items described in this Data Report on 22 July 96 and state that to the  
best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section  
III. Each part listed has been authorized for stamping on the date shown above.

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

Date 22 July 96 Signed [Signature] \* Factory Mutual Engineering Association  
(Authorized Inspector) Commissions NB 11207 INA P2267  
(Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FTI  
OP SUP  
CBR



# APPENDIX D.2

MODIFICATION GROUP, NIS-2 Forms

## WORK ABSTRACT

The Site Modifications Group is responsible for preparing Construction Work Authorizations (work packages) for fabrication and installation of design changes in accordance with ASME Section XI and the National Board Inspection Code. This work is documented on NIS-2 Forms, or on R-1 Forms, which are submitted herewith.

### MODIFICATION INSTALLATION GROUP

Design Change Packages for ASME Section XI ( Class 1, 2 and 3 ), and the National Board Inspection Code, installed in Unit 1 since the completion of the Ninth Refueling Outage through completion of the Tenth Refueling Outage are summarized below:

DESIGN CHANGE PACKAGE NUMBER	SYSTEM / CLASS	DESCRIPTION
96-3021A	023B III	Install fuel oil filtration system for A diesel generator
96-3021B	023B III	Install fuel oil filtration system for B diesel generator
96-3021C	023B III	Install fuel oil filtration system for C diesel generator
96-3021D	023B III	Install fuel oil filtration system for D diesel generator
96-3019	023B III	Install fuel oil filtration system for E diesel generator
96-9006	030 *	Welded half coupling attachment to 0S118A
96-9052	068 *	Welded pipe support attachment to 0T331
95-3014	144 *	Repaired arc strikes and welded lifting eyes to 1F134 A thru F
97-3011A	145A I	Installed new discs in valves HV14107A and B
97-3019	145A II	Replace valves 141F039A and B
97-9019	149A II	Repair discs in valves HV151F028A and B
97-9013	150B II	Replace valve HV149F084 and associated piping
97-9060	150B II	Replace RCIC level switch LSH-E51-1N010
97-9005	152A II	Repair disc in valve HV155F042
97-9015	152B II	Replace bonnet on valve HV155F079
97-3019	161B II	Install SP-DBB-122-4
97-3014A	162A I	Modify drain line SP-DCA-103-6
97-3017	164B I	Modify seal cartridge on pumps 1P401A and B
97-3014B	164B I	Replace valves HV143F031A and B
95-9062	183A II	Replace main steam drain line level switches
97-3014C	183E III	Modify SP-HCC-133-H2008
94-3007E	183H II	MSIV Leakage Control System Deletion

\* National Board Inspection Code repair of an ASME section VIII vessel in a non-nuclear system.

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

1. Owner Pennsylvania Power & Light Co. Date July 21, 1998  
Name  
Two North Ninth St., Allentown, PA 18101 Address Sheet 1 of 1
2. Plant Susquehanna Steam Electric Station Unit Common (Diesel)  
Name  
PO Box 467, Berwick, PA 18603 Address PMR 96-3021A WA's C73211, C73212, C73214  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System FUEL OIL SYSTEM 023B CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, NONE Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MANWAY	BETH STL	X-1909NC-1	109680	0T527A M58-24	1977	REPLACED	YES
MANWAY	PPL	X-1909NC-1	109680	0T527A M58-24	1997	REPLACEMENT	NO
LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC3-1	1997	REPLACEMENT	NO
LARGE PIPE SUPPORT	PPL	NA	NA	HCC3-H1	1997	REPLACEMENT	NO
TUBING	PPL	NA	NA	J-220, SHT 9	1997	REPLACEMENT	NO

7. Description of Work Installation of new Diesel Fuel Oil Filtration System
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  WA C73214 for Testing  
Other  Pressure 167 psl Test Temp. 60 °F

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

FORM NIS-2 (Back)

9. Remarks N/A for Code Data Reports

Applicable Manufacturer's Data Reports to be attached

Construction Code for Diesel Fuel Oil Tank 0T527A - ASME III '74 Edition W'75 Addenda

CERTIFICATION 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 N/A

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

Signed [Signature] Date 8/01, 19 78  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described

in this Owner's Report during the period SEPT. 12 1997 to JUNE 3 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 14 19 98

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

1. Owner Pennsylvania Power & Light Co. Date July 21, 1998  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1  
Address
2. Plant Susquehanna Steam Electric Station Unit Common (Diesel)  
Name  
PO Box 467, Berwick, PA 18603 PMR 96-3021B WA's C73206, C73207, C73208  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System FUEL OIL SYSTEM 023B CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, NONE Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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MANWAY	BETH STL	X-1909NC-2	109681	0T527B M58-24	1977	REPLACED	YES
MANWAY	PPL	X-1909NC-2	109681	0T527B M58-24	1997	REPLACEMENT	NO
LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC4-1	1997	REPLACEMENT	NO
LARGE PIPE SUPPORT	PPL	NA	NA	HCC4-H1	1997	REPLACEMENT	NO
TUBING	PPL	NA	NA	J-220, SHT 10	1997	REPLACEMENT	NO

7. Description of Work Installation of new Diesel Fuel Oil Filtration System
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  WA C73208 for Testing  
 Other  Pressure 170 psl Test Temp. 77 °F

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

FORM NIS-2 (Back)

9. Remarks N/A for Code Data Reports

Applicable Manufacturer's Data Reports to be attached

Construction Code for Diesel Fuel Oil Tank 0T527B - ASME III '74 Edition W'75 Addenda

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 95  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described in this Owner's Report during the period MAY 6 1997 to JULY 17 1997, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 14 19 98

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

1. Owner Pennsylvania Power & Light Co. Date July 21, 1998  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1  
Address
2. Plant Susquehanna Steam Electric Station Unit Common (Diesel)  
Name  
PO Box 467, Berwick, PA 18603 PMR 96-3021C WA's C73215, C73216, C73218  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System FUEL OIL SYSTEM 023B CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, NONE Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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MANWAY	BETH STL	X-1909NC-3	109682	0T527C M58-24	1977	REPLACED	YES
MANWAY	PPL	X-1909NC-3	109682	0T527C M58-24	1997	REPLACEMENT	NO
LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC5-1	1997	REPLACEMENT	NO
LARGE PIPE SUPPORT	PPL	NA	NA	HCC5-H1	1997	REPLACEMENT	NO
TUBING	PPL	NA	NA	J-220, SHT 11	1997	REPLACEMENT	NO

7. Description of Work Installation of new Diesel Fuel Oil Filtration System
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  WA C73218 for Testing  
 Other  Pressure 169 psi Test Temp. 60 °F

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

FORM NIS-2 (Back)

9. Remarks N/A for Code Data Reports

Applicable Manufacturer's Data Reports to be attached

Construction Code for Diesel Fuel Oil Tank 0T527C - ASME III '74 Edition W'75 Addenda

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described

In this Owner's Report during the period Aug. 20 1998 to Oct. 22 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 14 19 98



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

1. Owner Pennsylvania Power & Light Co. Date July 21, 1998  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit Common (Diesel)  
Name  
PO Box 467, Berwick, PA 18603  
Address PMR 96-3021D WA's C73203, C73204, C73205  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System FUEL OIL SYSTEM 023B CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, NONE Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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MANWAY	BETH STL	X-1909NC-4	109683	0T527D M58-24	1977	REPLACED	YES
MANWAY	PPL	X-1909NC-4	109683	0T527D M58-24	1998	REPLACEMENT	NO
LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC6-1	1998	REPLACEMENT	NO
LARGE PIPE SUPPORT	PPL	NA	NA	HCC6-H1	1998	REPLACEMENT	NO
TUBING	PPL	NA	NA	J-220, SHT 12	1998	REPLACEMENT	NO

7. Description of Work Installation of new Diesel Fuel Oil Filtration System
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  WA C73205 for Testing  
 Other  Pressure 165 psi Test Temp. 57 °F

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

FORM NIS-2 (Back)

9. Remarks N/A for Code Data Reports

Applicable Manufacturer's Data Reports to be attached

Construction Code for Diesel Fuel Oil Tank 0T527D - ASME Sect.III '74 Edition W'75 Addenda

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO.\* of NORWOOD, MASS have inspected the components described in this Owner's Report during the period NOV. 7 1997 to MARCH 19 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature      National Board, State, Province, and Endorsements

Date Aug 14 19 98

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

1. Owner Pennsylvania Power & Light Co. Date July 21, 1998  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 1  
Address
2. Plant Susquehanna Steam Electric Station Unit Common (Diesel)  
Name  
PO Box 467, Berwick, PA 18603 PMR 96-3019 WA's C63739, C63740, C73082  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System FUEL OIL SYSTEM 023B CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, NONE Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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MANWAY	PDM	14080	1422	0T527E M1310-12	1985	REPLACED	YES
MANWAY	PPL	14080	1422	0T527E M1310-12	1997	REPLACEMENT	NO
LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC2-1	1997	REPLACEMENT	NO
LARGE PIPE SUPPORT	PPL	NA	NA	HCC2-H1	1997	REPLACEMENT	NO
TUBING	PPL	NA	NA	J-220, SHT 8	1997	REPLACEMENT	NO

7. Description of Work Installation of new Diesel Fuel Oil Filtration System
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  WA C73082 for Testing  
 Other  Pressure 165 psi Test Temp. 47 °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described in this Owner's Report during the period JAN. 24 1998 to JUNE 3 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 1BNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 14 19 98



DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19 \_\_\_\_.

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this \_\_\_\_\_ Repair conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A  
, 19 \_\_\_\_

Date Aug 6, 19 98 Signed \_\_\_\_\_  
(name of alteration organization) (Supr. Site Modifications Group)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on JUNE 3, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date Aug. 17, 1998 Signed \_\_\_\_\_ Commissions NB 7525 IBNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

1. Work performed by PP& L Inc. DCP 96-9052 / WA C73389  
(name of repair or alteration organization) (P.O. no., job no., etc.)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

2. Owner PP& L Inc.  
(name)  
Two North Ninth Street, Allentown, Pa. 18101  
(address)

3. Location of installation Susquehanna Steam Electric Station  
(name)  
P.O. Box 467, Berwick, Pa. 18603  
(address)

4. Unit identification: Pressure vessel Name of original manufacturer Bishopric  
(boiler, pressure vessel)

5. Identifying nos: 90383 1975  
(mfr's serial no.) (original National Board no.) (jurisdiction no.) (other) (year built)

6. Description of work: \_\_\_\_\_  
(use back, separate sheet, or sketch if necessary)

A pipe hanger, in the form of a 2" Sch 80S pipe, was welded to the internal bottom surface of the Waste Phase separator (WSPS) Tank OT331

Pressure test, if applied N/A psi

7. Replacement Parts. Attached are Manufacturers' Partial Data Reports properly identified and signed by Authorized Inspectors for the following items of this report  
N/A  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(name of part, item number, mfr's. name and identifying stamp)

8. Remarks: The welding was performed in accordance with the requirements of DCP 96-9052 and the SSES Welding Program.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19\_\_\_\_.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this \_\_\_\_\_ Repair conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. \_\_\_\_\_ N/A to use the \_\_\_\_\_ N/A symbol expires \_\_\_\_\_ N/A, 19\_\_\_\_

Date Aug 6, 1998 Signed \_\_\_\_\_  
PP&L, Inc (name of alteration organization) Supv - Site Modifications Group

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS. has inspected the work described in this report on JUNE 3, 1998 and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\* Factory Mutual Engineering Association

Date Aug. 17, 1998 Signed \_\_\_\_\_ Commissions NB 7525 IBNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)





DESIGN CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that the design changes described in this report conform to the requirements of the National Board Inspection Code.

ASME Certificate of Authorization no. \_\_\_\_\_ to use the \_\_\_\_\_ symbol expires \_\_\_\_\_, 19 \_\_\_\_.

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_  
(name of organization) (authorized representative)

CERTIFICATE OF REVIEW OF DESIGN CHANGE

The undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ has examined the design change as described in this report and verifies that to the best of his knowledge and belief such change complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor his employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

Date \_\_\_\_\_, 19 \_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

CONSTRUCTION CERTIFICATION

The undersigned certifies that the statements made in this report are correct and that all construction and workmanship on this \_\_\_\_\_ REPAIR \_\_\_\_\_ conform to the National Board Inspection Code.  
(repair or alteration)

Certificate of Authorization no. \_\_\_\_\_ N/A \_\_\_\_\_ to use the \_\_\_\_\_ N/A \_\_\_\_\_ symbol expires \_\_\_\_\_ N/A \_\_\_\_\_, 19 \_\_\_\_

Date Aug 6, 19 98 Signed \_\_\_\_\_ PP+L, Inc \_\_\_\_\_  
(name of alteration organization) (authorized representative)

CERTIFICATE OF INSPECTION

The undersigned, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the state or province of \_\_\_\_\_ PENNSYLVANIA \_\_\_\_\_ and employed by \_\_\_\_\_ PROTECTION MUTUAL INSURANCE CO. \* \_\_\_\_\_ of \_\_\_\_\_ NORWOOD, MASS \_\_\_\_\_ has inspected the work described in this report on \_\_\_\_\_ JUNE 3 \_\_\_\_\_, 19 98

and state that to the best of my knowledge and belief this work has been done in accordance with the National Board Inspection Code.

By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection, except such liability as may be provided in a policy of insurance which the undersigned's insurance company may issue upon said object and then only in accordance with the terms of said policy.

\*Factory Mutual Engineering Association

Date Aug 17, 1998 Signed \_\_\_\_\_ Commissions NB 7525 IBNA PA 2159  
(Authorized Inspector) (National Board (incl. endorsements), state, prov., and no.)

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

1. Owner           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           June 9, 1998          

Sheet           1           of           1          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           One            
          DCP 97-9019 C73785 - HV151F028A            
          C73786 - HV154F028B            
Repair Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Type Code Symbol Stamp           None          

Authorization No.           N/A          

Expiration Date           N/A          

4. Identification of System           RHR Pool Spray, Pumps and Auxillary, SYSTEM 249A, CLASS II          

5. (a) Applicable Construction Code           III           19           71           Edition,           thru W72           Addenda,           None           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 19           89                     1516-1 & 1534          

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)
18"-300# Gate Valve Disc	Anchor Darling	Ht # E8806	NA	HV-151F028A SN E5854-4-1	1976	Repair	Yes
18"-300# Gate Valve Disc	Anchor Darling	Ht. # 1115 SN # U2343	NA	HV-151F028B SN E5854-4-2	1976	Repair	Yes

7. Description of Work           Drill 1/8" hole in suppression pool side disc          

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  None Required  
 Other  Pressure                            psi Test Temp.                            °F

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

FORM NIS-2 (Back)

9. Remarks Disassembled Valves; drilled 1/8" hole in the supression pool side disc; reassembled valves

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6 19 98  
Owner or Owner's Designee, Title Supv. • Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described in this Owner's Report during the period JAN. 5 1998 to JUNE 3 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date Aug. 14 19 98

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date September 10, 1998

Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

DCP's 97-3011A, B; WA's C73721, C73724 C73679, C73682;  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System Feedwater System 145A, CL.1

5. (a) Applicable Construction Code ASMEIII 19 71 Edition, thru W72 Addenda, See Remarks Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve	Anchor Darling	E5820-2-1	N/A	HV14107A	1975	Repaired	YES
24" Check Valve	Anchor Darling	E5820-2A-1	N/A	HV14107B	1976	Repaired	YES
24" Check Valve Disc	Anchor Darling	E5820-2-1, Disc S/N R880	N/A	HV14107A	1975	Replaced	YES
24" Check Valve Disc	Anchor Darling	E5820-2A-1, Disc S/N R882	N/A	HV14107B	1976	Replaced	YES
24" Check Valve Disc	Anchor Darling	E5820-2-1, Disc S/N 2	N/A	141818A	1998	Replacement	YES
24" Check Valve Disc	Anchor Darling	E5820-2A-1, Disc S/N 1	N/A	141818B	1998	Replacement	YES

7. Description of Work SEE REMARKS

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 1052 psi Test Temp. 169 °F SE-145-301

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

Code Case 1334-2, 1516-1, 1534, 1535-2 For 24" Check Valve (DCP 97-3011A). Installed new Seat Rings by welding into existing Vlvs HV14107A/B, along with new Pipe Plug and valve internals.

The valve identification was also changed for this DCP. HV14107A is now identified as 141818A and HV14107B is now identified as 141818B.

CERTIFICATION 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 N/A

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

Signed: [Signature] Date Sept 11, 19 98  
Owner or Owner's Designee, Title      Supv-Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described in this Owner's Report during the period FEB 4, 1998 to MAY 9, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date SEPT. 11 19 98

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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     September 10, 1998                      
 Sheet                     2                     of                     2                    

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                      
                    DCP's 97-3011A,B; WA's C73721, C73724, C73679, C73682;                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Type Code Symbol Stamp                     None                      
 Authorization No.                     N/A                      
 Expiration Date                     N/A                    

4. Identification of System                     Feedwater System 145A, CL.1                    

5. (a) Applicable Construction Code                     ASME III                     19                     71                     Edition,                     thru W72                     Addenda,                     See                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                                         Remarks                    

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)
24" Check Valve Pipe Plug	PP & L	E5820-2-1	N/A	HV14107A, HT CD: AEM	1998	Replacement	NO

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

As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by BW/IP International, Inc. Valve Division, 701 First St., Williamsport, PA  
(Name and address of NPT Certificate Holder)
- (b) Manufactured for Pennsylvania Power & Light Co., PO Box 25223, Lehigh Valley, PA 18002-5223  
(Name and address of N Certificate Holder for completed nuclear component)
2. Identification-Certificate Holder's Serial No. of Part S/N 1/ Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. C33407 Drawing Prepared by BW/IP Int'l, Valve Div.
- (b) Description of Part Inspected Disc Heat # F8075 / SA105 /
- (c) Applicable ASME Code: Section III, Edition 1971 /, Addenda date W72 /, Case No. -- Class 1 /
3. Remarks: 24" - 900# Swing Check  
(Brief description of service for which component was designed)
- BW/IP Shop Order No. E225A-1

NOTE: NO DISC HYDRO PERFORMED

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

Date 2/26 19 98 Signed BW/IP International, Inc. Valve Division By R.S. Stannett  
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/98 Certificate of Authorization No. N1713

**CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)**

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 12-31-97 thru 2-26-98 19 98 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 2-26 19 98

Charles Young Commissions Pennsylvania 2392  
Inspector's Signature National Board, State, Province and No.

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



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

As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by BW/IP International, Inc. Valve Division, 701 First St., Williamsport, PA  
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co, PO Box 25223, Lehigh Valley, PA 18002-5223  
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N 2/ Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C33407 Drawing Prepared by BW/IP Int'l, Valve Division

(b) Description of Part Inspected Disc Heat #F8075 / SA105 /

(c) Applicable ASME Code: Section III, Edition 1971 /, Addenda date W72 /, Case No. --- Class 1 /

3. Remarks: 24" - 900# Swing Check  
(Brief description of service for which component was designed)

BW/IP Shop Order No. E225A-1

NOTE: NO DISC HYDRO PERFORMED

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

Date 2/26 19 98 Signed Valve Division By R S Stannett  
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/98 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass.

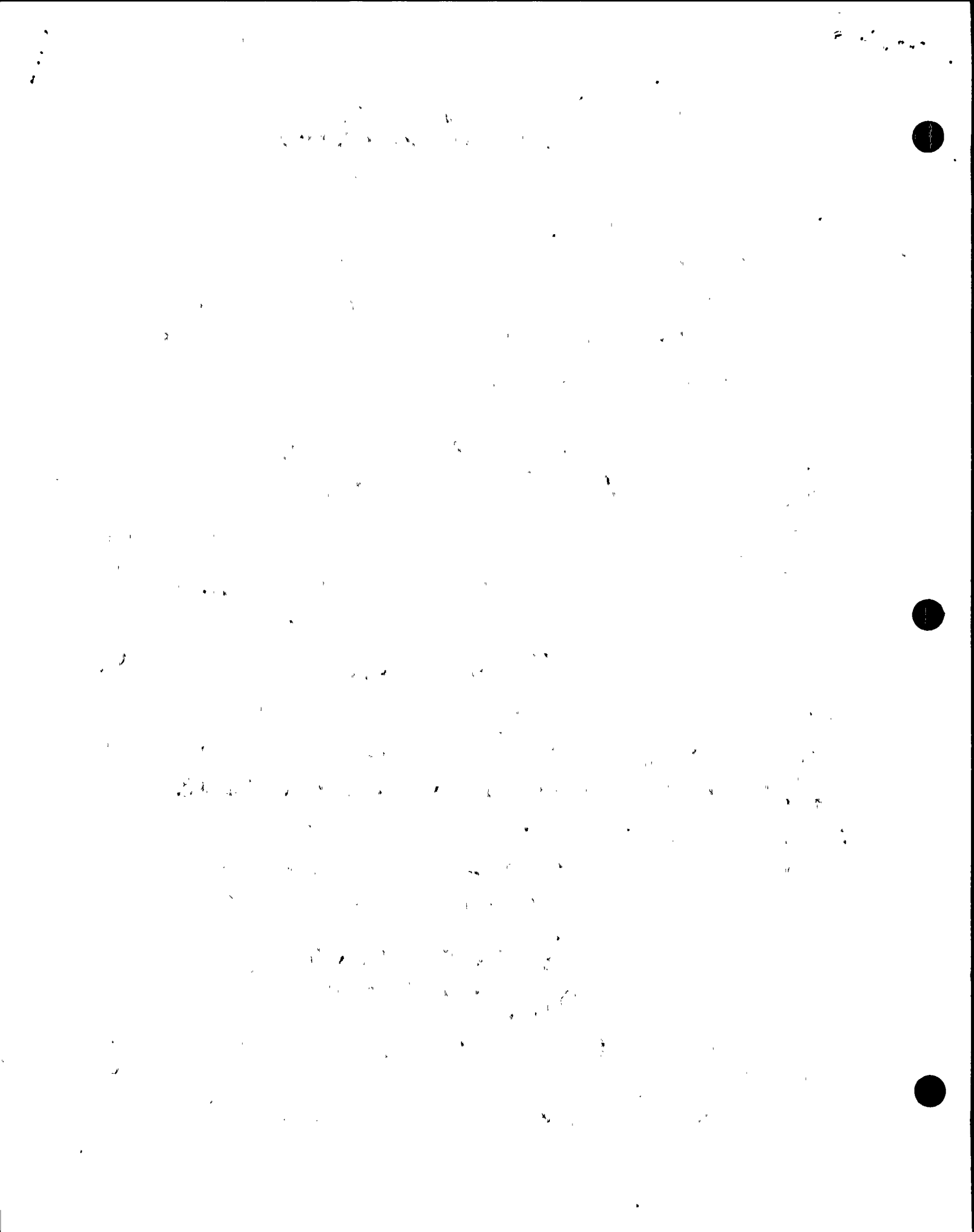
\_\_\_\_\_ have inspected the part of a pressure vessel described in this Partial Data Report on 12-31-97 Ch 2-26-98 19 98 and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 2-26 19 98

Charles Young Commissions Pennsylvania 2392  
Inspector's Signature National Board, State, Province and No.

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1-2 on this Data Report is included on each sheet and (3) each sheet is numbered and bound in order of reference to item 3, "Remarks".



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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date July 21, 1998  
Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One  
DCP 97-3019; C73642, C73647, C73641  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None  
Authorization No. N/A  
Expiration Date N/A

4. Identification of System Feedwater System 145A, CL. 2

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (N416-1)

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" Check Valve	Anchor Darling	E5853-41-2	N/A	141F039A	1975	Replaced	YES
3" Check Valve	Anchor Darling	E242A-1-2	N/A	141F039A	1998	Replacement	YES
3" Check Valve	Anchor Darling	E5853-41-1	N/A	141F039B	1975	Replaced	YES
3" Check Valve	Anchor Darling	E242A-1-1	N/A	141F039B	1998	Replacement	YES
Large Pipe Assembly	Bechtel	N/A	N/A	DBB122-2	1982	Replaced	YES
Large Pipe Assembly	PP & L	N/A	N/A	DBB122-2	1998	Replacement	NO

7. Description of Work Replaced 3" check valves 141039A/B and piping.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 1052 psl Test Temp. 169 °F SE-145-301

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date August, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS have inspected the components described

in this Owner's Report during the period \_\_\_\_\_ to \_\_\_\_\_, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 14 19 98

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by BW/IP International, Inc., Valve Division  
 701 First St., Williamsport, PA 17701 Order No. E242A  
(Name & Address of Manufacturer)

2. Manufactured for Pennsylvania Power & Light Co.  
 Two North Ninth St., Allentown, PA 18101-1149 Order No. 7-21396-1  
(Name and Address)

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna Station, PO Box 467, Berwick, PA 18603

5. ~~Flange~~ Valve Identification E242A-1-1  
3" - 900# Swing Check Valve  
(Brief description of service for which equipment was designed)

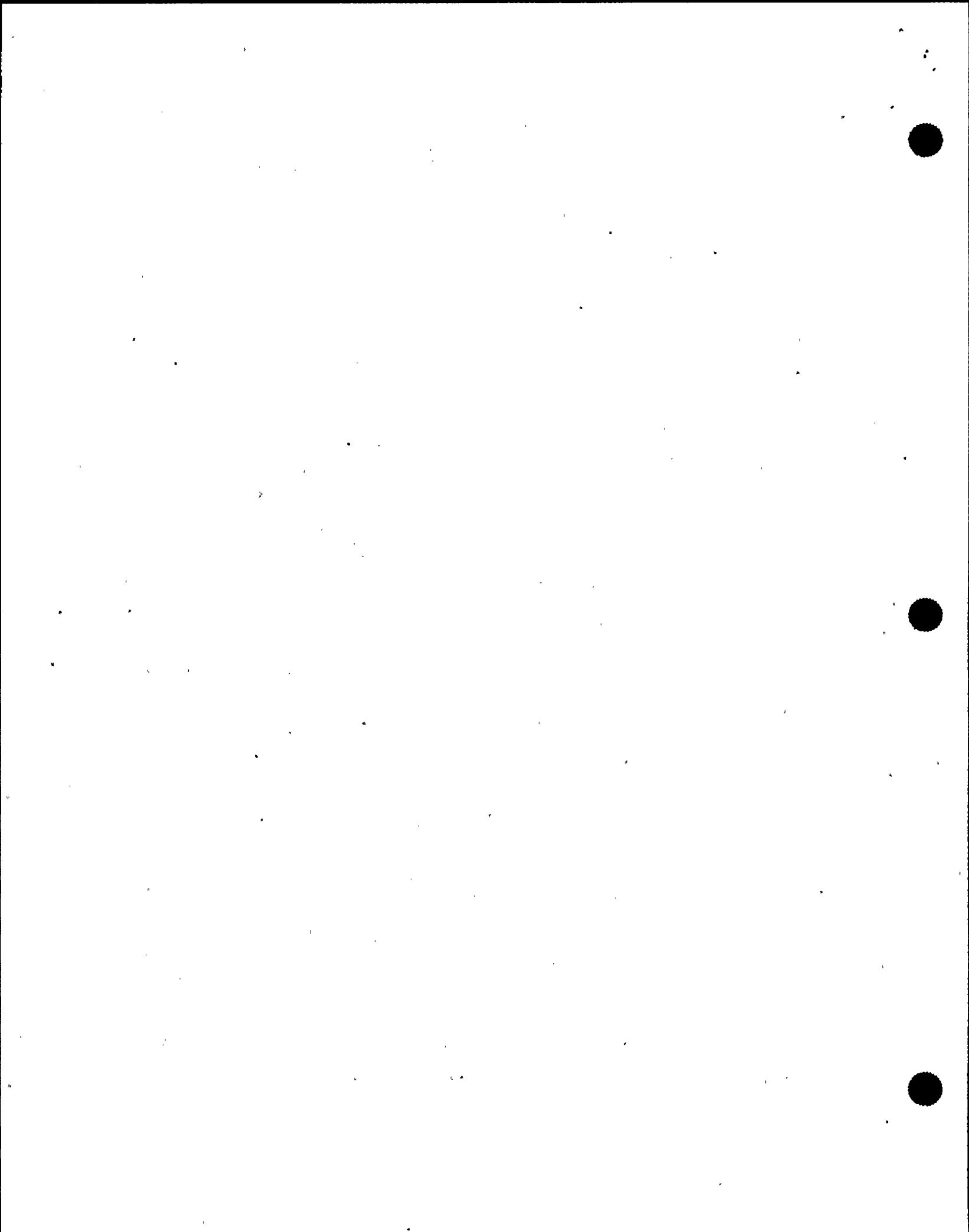
(a) Drawing No. W9725010 R/B Prepared by BW/IP International, Inc.

(b) National Board No. N/A

6. Design Conditions 1740 psi 565 °F  
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2  
 Edition 1971, Addenda Date Winter 72, Case No. ---

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
Body HT - B5813 S/N - Y548	SA216-WCB	Quaker Alloy Inc.	
<b>(b) Forgings</b>			
Bonnet HT - 217P288 S/N - 10	SA105	Patriot Forge	
Disc HT - F8929 S/N - 7	SA105	Patriot Forge	
asket Retainer HT - 217P288 PC #1	SA105	Patriot Forge	
nge Pin Cover HT - B298	SA105	Timken Co.	



Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cover Studs HT - 8074668	SA193-B7	Allied Nut & Bolt Co., Inc.	
Cover Nuts HT - 662975	SA194-2H	Allied Nut & Bolt Co., Inc.	
(d) Other Parts			
N/A			

8. Hydrostatic test 3250 psi.

**CERTIFICATION OF DESIGN**

Design information on file at BW/IP Int'l, Valve Div., 701 First St., WMSPT, PA 17701

Stress analysis report on file at N/A

Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 01

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

(1) Signature not required. List name only.

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

Date 3/27 1998 Signed BW/IP Int'l, Inc. By R S Starnett  
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/98

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspection and/or the State of ~~Delaware~~ Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass

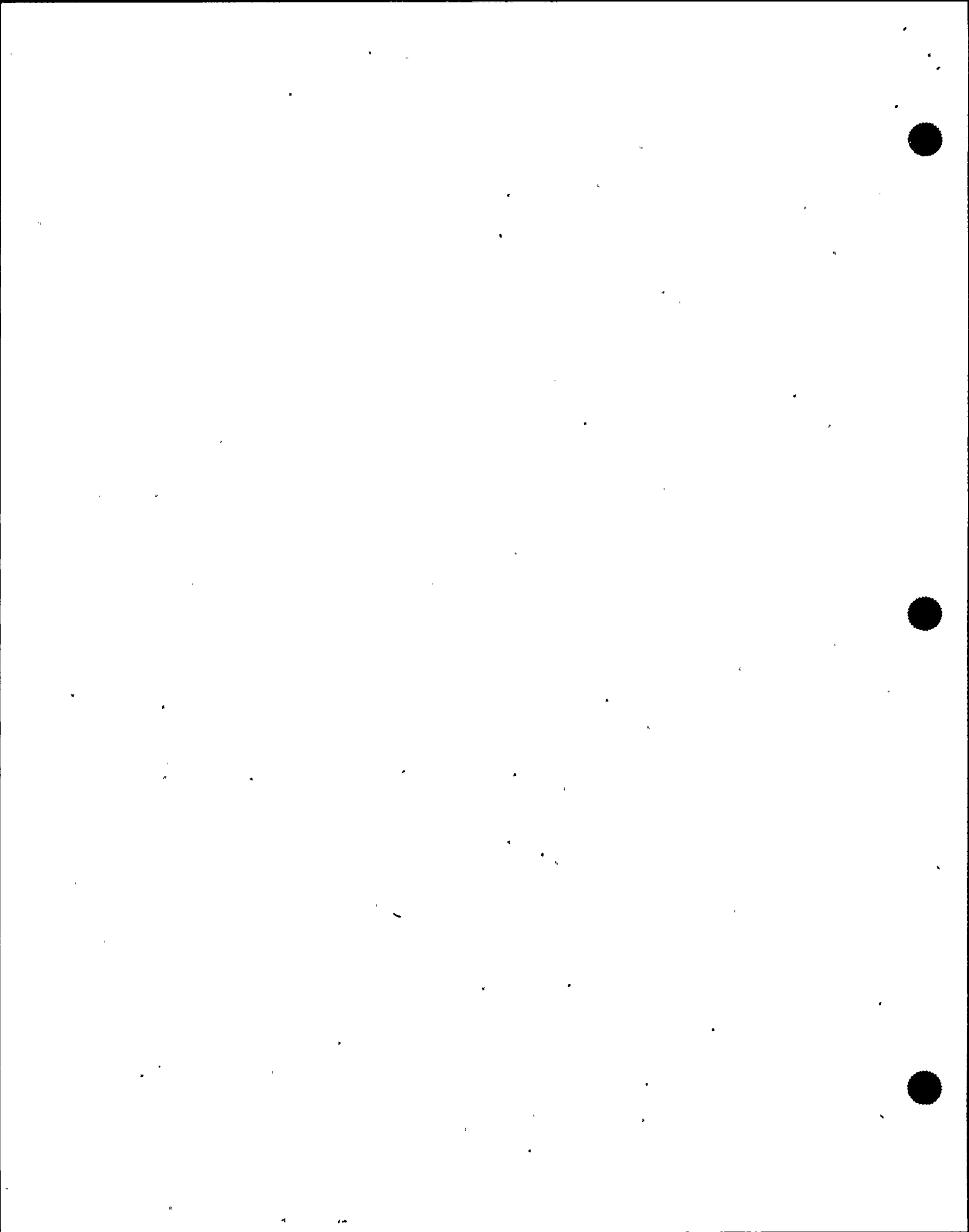
have inspected the equipment described in this Report on 1-23 thru 3-30 19 98, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 3-30 1998

Charles Young  
(Inspector)  
 Charles Young

Commissions Pennsylvania 2392  
(National Board, State, Province and No.)





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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by BW/IP International, Inc., Valve Division  
701 First St., Williamsport, PA 17701 Order No. E242A  
(Name & Address of Manufacturer)

2. Manufactured for Pennsylvania Power & Light Co.  
Two North Ninth St., Allentown, PA 18101-1149 Order No. 7-21398-1  
(Name and Address)

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna Station, PO Box 467, Berwick, PA 18603

5. ~~Function~~ Valve Identification E242A-1-2  
3" - 900# Swing Check Valve  
(Brief description of service for which equipment was designed)

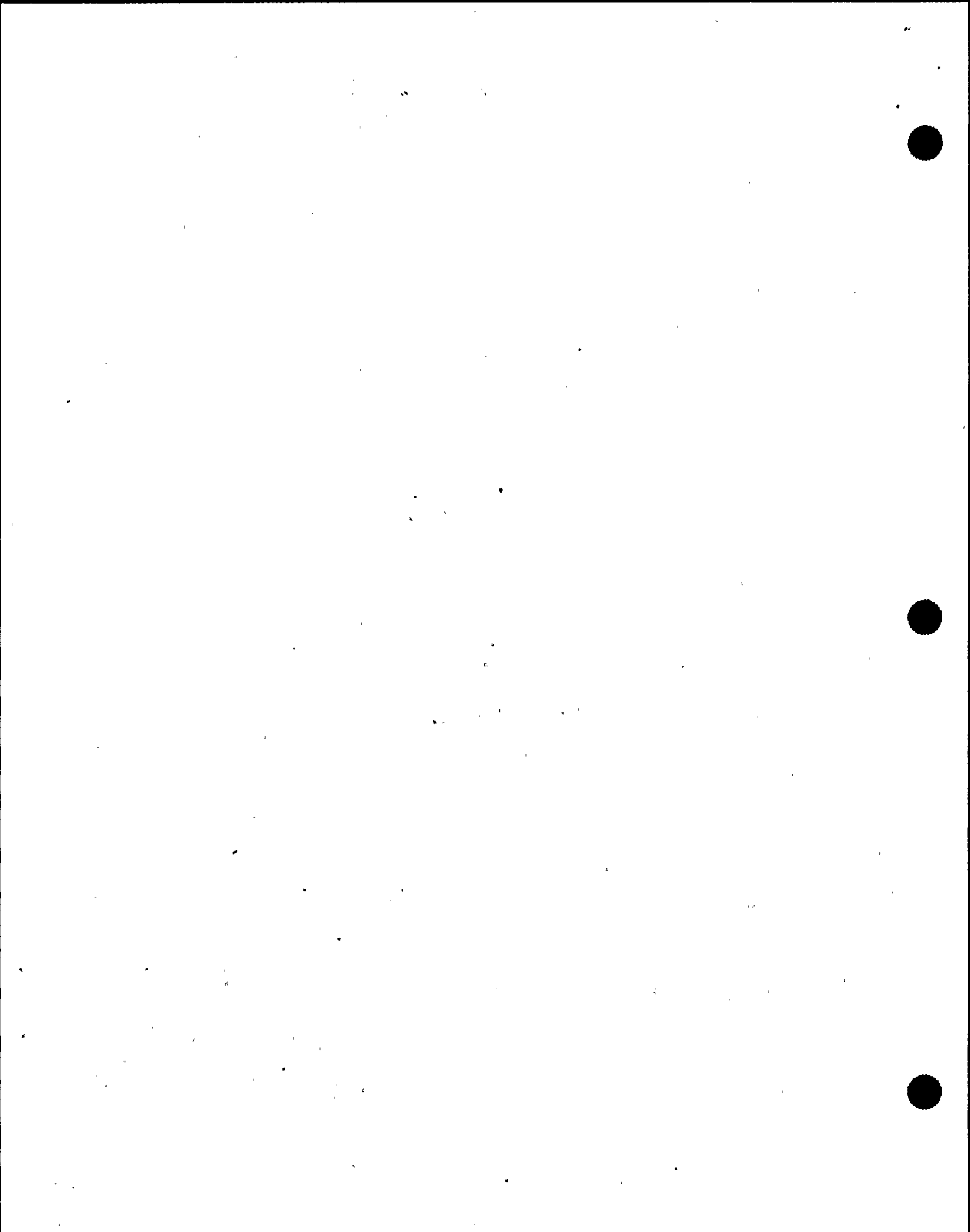
(a) Drawing No. W9725010 R/B Prepared by BW/IP International, Inc.

(b) National Board No. N/A

6. Design Conditions 1740 psi 565 °F  
(Pressure) (Temperature)  
2160 psi 100 °F

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 2  
 Edition 1971, Addenda Date Winter '72, Case No. \_\_\_\_\_

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
Body HT - B5813	SA216-WCB	Quaker Alloy Inc.	-
S/N - Y549			
<b>(b) Forgings</b>			
Bonnet HT - 217P288	SA105	Patriot Forge	
S/N - 11			
Disc HT - F8929	SA105	Patriot Forge	
S/N - 3			
Basket Retainer HT - 217P288	SA105	Patriot Forge	
PC # 2			
Engine Pin Cover HT - B298	SA105	Timken Co.	



FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Cover Studs HT - 8074668	SA193-B7	Allied Nut & Bolt Co., Inc.	
Cover Nuts HT - 662975	SA194-2H	Allied Nut & Bolt Co., Inc.	
(d) Other Parts			
N/A			

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at BW/IP Int'l, Valve Div., 701 First St., WMSPT, PA 17701

Stress analysis report on file at N/A

Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 0191

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

(1) Signature not required. List name only.

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

Date 3/27 19 98 Signed BW/IP Int'l, Inc. By R L Stannett  
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/98

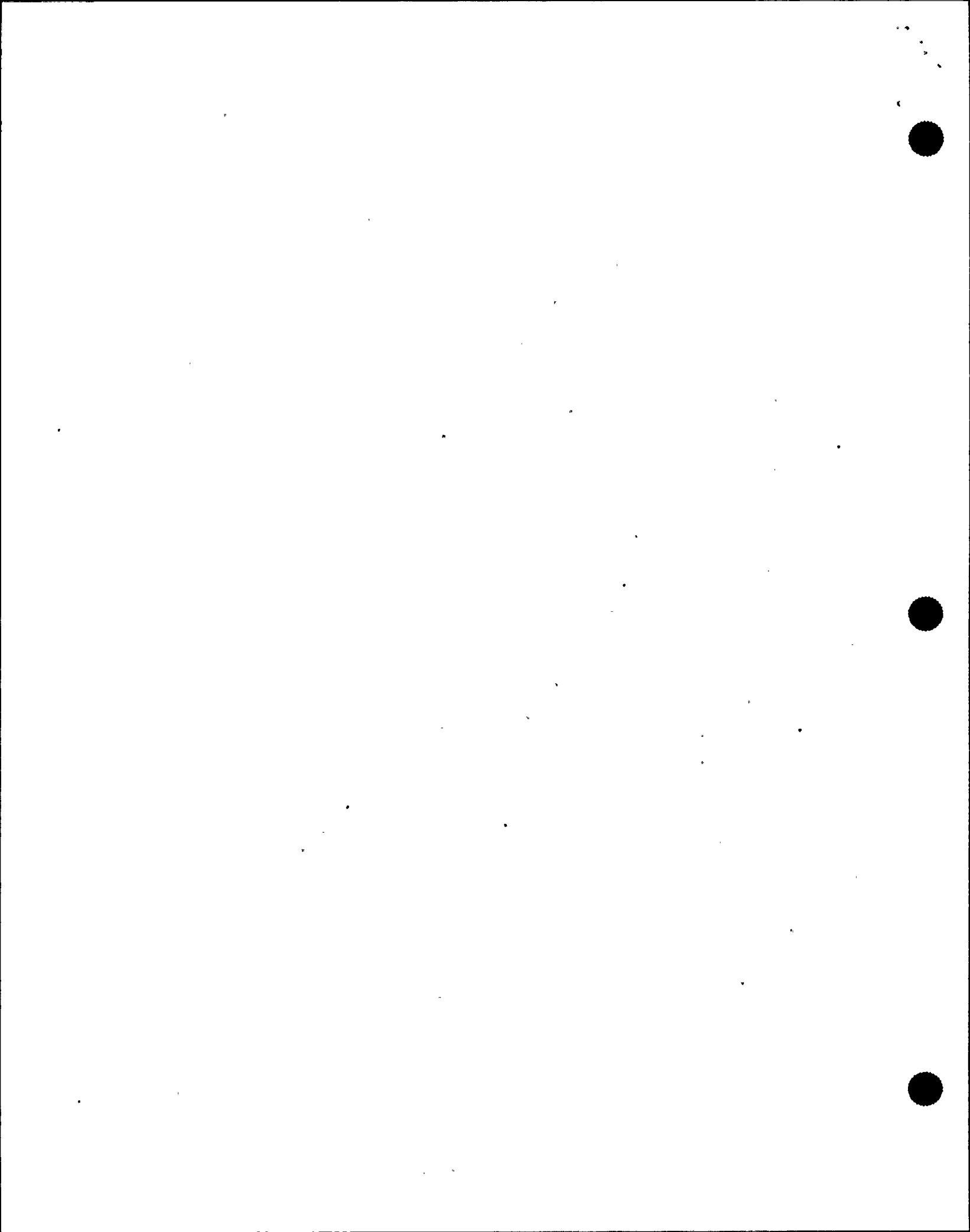
CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspection and/or the State of ~~PROVINCE~~ Pennsylvania and employed by Commercial Union Ins. Co of Boston, Mass have inspected the equipment described in this Data Report on 123th 3-30 19 98, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 3-30 19 98

Charles Young  
(Inspector) Charles Young Commissions Pennsylvania 2392  
(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 Pennsylvania Power & Light Co. Date 08/03/98  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 2  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name DCP 97-9013, SEE PAGE 2 FOR WA LISTING  
PO Box 467, Berwick, PA 18603 Repair Organization P.O. No., Job No., etc.  
Address

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System RCIC Turbine and Auxiliary - 150B Class II

5. (a) Applicable Construction Code SEE PAGE 2 19      Edition,      Addenda,      Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) Small Pipe Support	PP&L	N/A	N/A	SPHBB101-H11	1983	Replaced (Deleted)	No
2) Small Pipe Support	PP&L	N/A	N/A	SPHBB101-H2004	1983	Repaired	No
3) Small Pipe Assembly	PP&L	N/A	N/A	SPHBB101-8	1998	Replacement (New)	No
4) 1/4" Valve	BNL	A971004-1-1	N/A	149025	1997	Replacement (New)	Yes
4) 2" Valve	Borg Warner	21001	N/A	HV149F084	1977	Replaced	Yes
4) 2" Valve	Anchor Darling	E221A-1-1	N/A	HV149F084	1998	Replacement	Yes

7. Description of Work See Page 2

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

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

FORM NIS-2 (Back)

9. Remarks Manufacturer's Data Sheets attached

Applicable Manufacturer's Data Reports to be attached

Construction Code for BNL valves is ASME Section III 1974 Edition with no Addenda

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title Supv site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS have inspected the components described in this Owner's Report during the period DEC. 17 1997 to APRIL 28 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 14 19 98

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

1. Owner           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           08/03/98            
 Sheet           2           of           2          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           ONE            
          DCP 97-9013, WA LISTING BELOW            
Repair Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Type Code Symbol Stamp           None            
 Authorization No.           N/A            
 Expiration Date           N/A          

4. Identification of System           RCIC Turbine and Auxiliary - 150B Class II          

5. (a) Applicable Construction Code           SEE BELOW           19            Edition,            Addenda,            Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, NO ADDENDA          

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM #	WA #	ASME CODE REPAIR #	CONSTRUCTION CODE	DESCRIPTION OF WORK	TESTING
1	C73744	G98-150-045	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Delete Support (SPHBB101-H11)	None
2	C73744	G98-150-046	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Partial Removal/Reinstall, Support (SPHBB101-H2004)	None
3	C73744 C73384	G97-150-166 G97-150-165	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Install piping (SPHBB101-8)	1/4" piping: Non-VT-2 PER MI-PS-008 Press: 46 psig Temp: 77F 2" piping: VT-2 PER TP-000-001 Press: 46 psig Temp: 77F
4	C73748	G97-150-167	ASME SECTION III, 1974 EDITION, WINTER 1974 ADDENDA	Replace HV149084 Add 149025	1/4" valve: Non-VT-2 PER MI-PS-008 Press: 46 psig Temp: 77F 2" valve: VT-2 per MI-PS-008 Press: 46 psig Temp: 77F

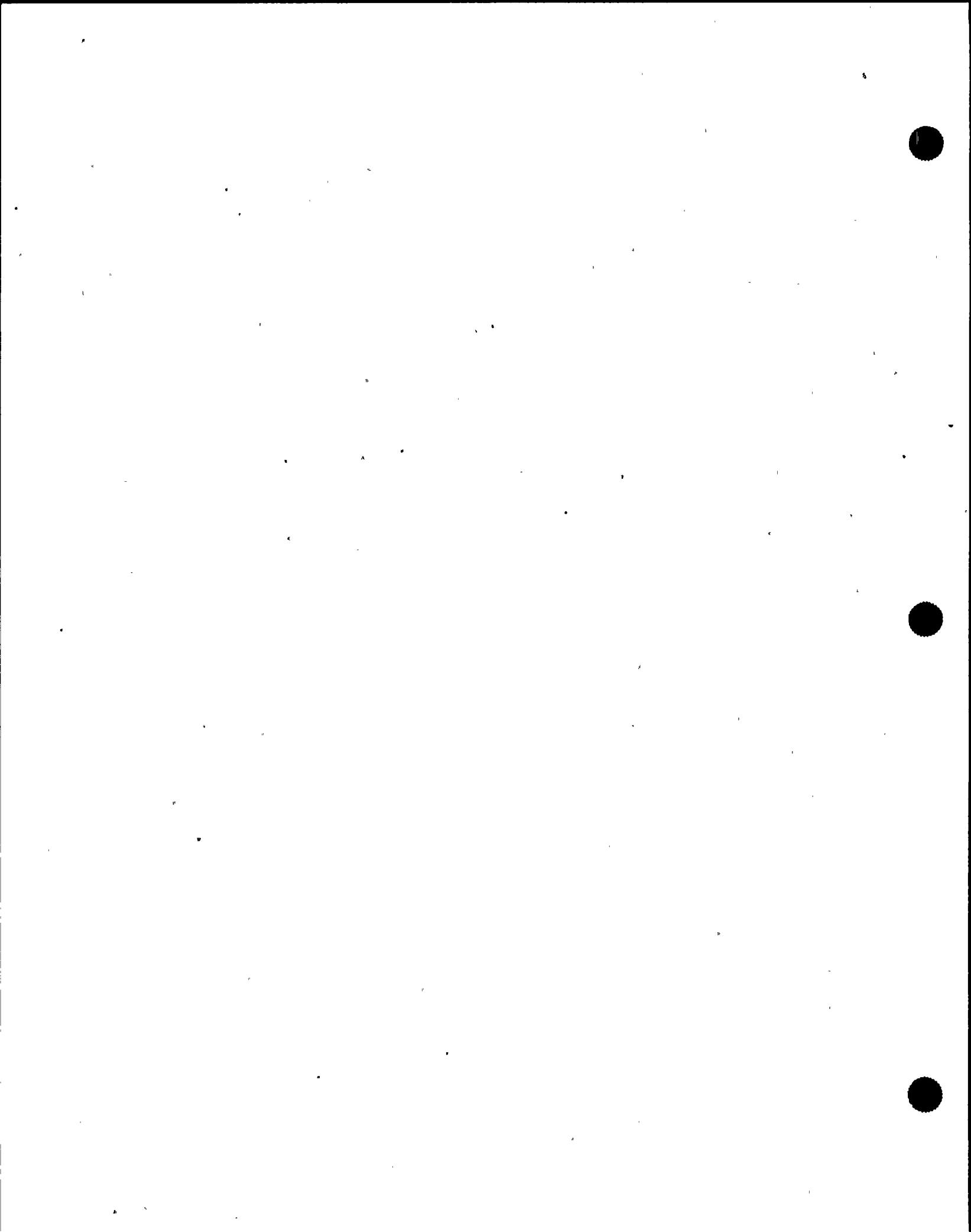
7. Description of Work           See Above          

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.







Certificate Holder's Serial No. \_\_\_\_\_

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 150# (1)  
(pressure) (temperature)
9. Cold working pressure 150PSIG @ 100F psi at 100°F
10. Hydrostatic test 450 psi. Disk differential test pressure 315 psi
11. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**CERTIFICATION OF DESIGN**

Design Specification certified by J. G. SHELLENBERGER P.E. State PA Reg. no. 19551-E  
 Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1. N-2882 11/10/98  
 N Certificate of Authorization No. \_\_\_\_\_ Expires \_\_\_\_\_

Date 02/02/98 Name BNL INDUSTRIES, INC. Signed [Signature]  
(N Certificate Holder) (Authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by COMMERCIAL UNION INS.  
 of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on  
 of 02/02/98, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 2-2-98 Signed [Signature] Commissions CT 1343  
(Authorized Inspector) (Nat'l. Bd. (Incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.



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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by BW/IP International, Inc., Valve Division  
701 First St., Williamsport, PA 17701 Order No. E221A  
(Name & Address of Manufacturer)
2. Manufactured for Pennsylvania Power & Light Company  
Two North Ninth St., Allentown, PA 18101-1149 Order No. 7-07159-1  
(Name and Address)

3. Owner Pennsylvania Power & Light Company

4. Location of Plant Susquehanna Station, P.O. Box 467, Berwick, PA 18603

5. ~~PNP~~ Valve Identification E221A-1-1  
2" - 1500# FW Gate Valve  
(Brief description of service for which equipment was designed)

(a) Drawing No. W9724982 R/A Prepared by BW/IP International, Inc., Valve Division

(b) National Board No. N/A

6. Design Conditions 3600 psi 100 °F  
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1  
 Edition 1974, Addenda Date Winter 74, Case No. ----

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
Body HT#-B5820 S/N-2	SA216-WCB	Quaker Alloy Inc.	
Disc HT#-B5829 S/N-14	SA216-WCB	Quaker Alloy Inc.	
<b>(b) Forgings</b>			
Bonnet HT#-217P288 S/N-1	SA105	Patriot Forge Inc.	
Gasket Retainer HT#-217P288 Piece#-1	SA105	Patriot Forge Inc.	

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
N/A			

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at BW/IP International, Inc., Valve Division, Williamsport, PA 1770  
 Stress analysis report on file at BW/IP International, Inc., Valve Division, Williamsport, PA 17  
 Design specifications certified by E. B. Gerlach (1) Prof. Eng. State PA Reg. No. 35701-E  
 Stress analysis report certified by R. S. Farrell (1) Prof. Eng. State PA Reg. No. 35701-E  
 (1) Signature not required. List name only.

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

Date 4/13 1998 Signed Valve Division By R. L. Stannett  
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/98

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Co. of Boston, Mass. have inspected the equipment described in this Data Report on 11-25-97/11439-98, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.  
 By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 4-13 1998

Charles Young (Inspector) Commissions Pennsylvania 2392  
(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 Pennsylvania Power & Light Co.  
Name

Date 07/21/98

Two North Ninth St., Allentown, PA 18101  
Address

Sheet 1 of 4

2. Plant Susquehanna Steam Electric Station  
Name

Unit ONE

PO Box 467, Berwick, PA 18603  
Address

DCP 97-9060, SEE PAGE 4 FOR WA LISTING  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name

Type Code Symbol Stamp None

Two North Ninth St., Allentown, PA 18101  
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System RCIC Turbine and Auxiliary - 150B Class II

5. (a) Applicable Construction Code SEE PAGE 4 19      Edition,      Addenda,      Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SPDBB109-3	1997	REPLACED	YES
2) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SPDBB109-3	1997	REPLACEMENT	NO
2) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	DBB109-2	1993	REPLACED	YES
2) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	DBB109-2	1997	REPLACEMENT	NO
3) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPDBB109-H2009	1995	REPLACED (Deleted)	NO
3) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SPDBB109-4	1997	REPLACED (Deleted)	NO

7. Description of Work See Page 4

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

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

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98
Owner or Owner's Designee, Title Supv Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO.\* of NORWOOD, MASS have inspected the components described in this Owner's Report during the period JULY 30 1997 to JUNE 5 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug. 14 19 98

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

1. Owner           Pennsylvania Power & Light Co.            
Name

Date           07/16/98          

          Two North Ninth St., Allentown, PA 18101            
Address

Sheet           2           of           4          

2. Plant           Susquehanna Steam Electric Station            
Name

Unit           ONE          

          PO Box 467, Berwick, PA 18603            
Address

          DCP 97-9060, SEE PAGE 4 FOR WA LISTING            
Repair Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name

Type Code Symbol Stamp           None          

          Two North Ninth St., Allentown, PA 18101            
Address

Authorization No.           N/A          

Expiration Date           N/A          

4. Identification of System           RCIC Turbine and Auxiliary - 150B Class II          

5. (a) Applicable Construction Code           SEE PAGE 4           19            Edition,            Addenda,            Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, NO ADDENDA          

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3) 1" VALVE	YARWAY	7861	N/A	1RV-LSH-1N010	1977	REPLACED (Deleted)	YES
3) 1" VALVE	YARWAY	3444	N/A	2RV-LSH-1N010	1976	REPLACED (Deleted)	YES
3) 1" VALVE	YARWAY	6299	N/A	3RV-LSH-1N010	1976	REPLACED (Deleted)	YES
3) 1" VALVE	YARWAY	5863	N/A	4RV-LSH-1N010	1976	REPLACED (Deleted)	YES
3) 1" VALVE	YARWAY	5940	N/A	5RV-LSH-1N010 (LSH149N010-Vent)	1976	REPLACED (Deleted)	YES

7. Description of Work           See Page 4          

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure            psl Test Temp.            °F

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



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

1. Owner Pennsylvania Power & Light Co.  
Name

Date 07/16/98

Two North Ninth St., Allentown, PA 18101  
Address

Sheet 3 of 4

2. Plant Susquehanna Steam Electric Station  
Name

Unit ONE

PO Box 467, Berwick, PA 18603  
Address

DCP 97-9060, SEE PAGE 4 FOR WA LISTING  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name

Type Code Symbol Stamp None

Two North Ninth St., Allentown, PA 18101  
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System RCIC Turbine and Auxiliary - 150B Class II

5. (a) Applicable Construction Code SEE PAGE 4 19      Edition,      Addenda,      Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, NO ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
3) 1" VALVE	YARWAY	A8532	N/A	6RV-LSH-1N010 (LSH149N010-Drain)	1979	REPLACED (Deleted)	YES
3) LEVEL SWITCH	MEGNETROL	N/A	N/A	LSH-E51-1N010	1995	REPLACED	YES

7. Description of Work See Page 4

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

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

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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     07/16/98                      
 Sheet           4           of           4          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     ONE                      
                    DCP 97-9060, SEE PAGE 4 FOR WA LISTING                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Type Code Symbol Stamp                     None                      
 Authorization No.                     N/A                      
 Expiration Date                     N/A                    

4. Identification of System                     RCIC Turbine and Auxiliary - 150B Class II                    

5. (a) Applicable Construction Code           SEE PAGE 4           19            Edition,            Addenda,            Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89, NO ADDENDA          

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM #	WA #	ASME CODE REPAIR #	CONSTRUCTION CODE	DESCRIPTION OF WORK	TESTING
1	C73428	G97-150-126	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	PIPING Prefabrication (SPDBB109-3)	VT-2 PER SE-150-301 Press: 1020 psig Temp: 548F
2	C73415	G97-150-127	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Install new level switch & SPDBB109-3	VT-2 PER SE-150-301 Press: 1020 psig Temp: 548F
3	C73430	G97-150-128	ASME SECTION III, 1971 EDITION, WINTER 1972 ADDENDA	Removed 1" valves, Piping (SPDBB109-4), pipe support, and old level switch	None

7. Description of Work                     See Page 4                    

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

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



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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     June 9, 1998                      
 Sheet           1           of           1          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                      
                    DCP 97-9005 C73784 - HV155F042                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Type Code Symbol Stamp                     None                      
 Authorization No.                     N/A                      
 Expiration Date                     N/A                    

4. Identification of System                     HPCI Water Loops, System 152A, Class II                    

5. (a) Applicable Construction Code           III           19           71           Edition,           thru W72           Addenda,           None           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89                     1516-1 and 1534          

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)
16"-150# Valve Disc	Anchor Darling	Ht # 1610 SN 001 RT SN R432	NA	HV155F042 SN E5854-17-1	1975	Repair	Yes

7. Description of Work                     Drill 1/8" hole in suppression side disc                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  None Required  
 Other  Pressure                      psi Test Temp.                      °F

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

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6 19 91  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS have inspected the components described in this Owner's Report during the period DEC. 23 1997 to JUNE 5 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date Aug 14 19 98

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date June 10, 1998  
 Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One  
DCP # 97-9015, WA C73387, C73754-C73757  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System HPCI Turbine and Auxiliary Systems, System 152B, CLASS II

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, 1516-1,1534 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 \*See remarks for exception

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve Bonnet	Anchor Darling	E5854-91-1	NA	HV155F079	1976	Replaced	Yes
Valve Bonnet	Anchor Darling	D13943-01	NA	HV155F079	1998	Replacement	Yes
Valve Leak Off Plug	Bonney Forge	DF78	NA	HV155F079	1998	Replacement	No
Small Piping	Bechtel	NA	NA	SPHBB108-4	1982	Replaced	Yes
Small Piping	PP&L	NA	NA	SPHBB108-4	1998	Replacement	No
Valve (New)	BNL	A971004-1-2	NA	155802	1998	Replacement	Yes

7. Description of Work Replace HV155F079 valve bonnet & install new test connection

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 46 psi Test Temp. 77 °F SE-159-098

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

\* Valve 155802 Construction Code is 1974 Edition No Addenda.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 4, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described in this Owner's Report during the period DEC. 9 1997 to MAY 13 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 17 19 98

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

As required by the Provision of the ASME Code Rules, Section III, Div. I

1. (a) Manufactured by BW/IP International, Inc. Valve Division, 701 First St., Williamsport, PA  
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co., Two North Ninth St., Allentown, PA 18101  
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 1 / Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D13943 Drawing Prepared by BW/IP Int'l, Inc.

(b) Description of Part Inspected Bonnet Heat # C6986 / SA216-WCB /

(c) Applicable ASME Code: Section III, Edition 1971 / Addenda date W '72 / Case No. -- Class 2 /

3. Remarks: 3" - 150# FW Gate  
(Brief description of service for which component was designed)

BW/IP Shop Order - E212A-1

Note: No Bonnet Hydro performed.

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

Date 4/7 19 98 Signed BW/IP International, Inc. Valve Division By R. L. Stannett  
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/98 Certificate of Authorization No. N1713

**CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)**

Design information on file at \_\_\_\_\_

Stress analysis report on file at \_\_\_\_\_

Design specifications certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of ~~Massachusetts~~ Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this

Partial Data Report on 2-16-98 either 4-7-98 19 \_\_, and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

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

Date 4-7 19 98

Charles Young Inspector's Signature Commissions Pennsylvania 2392  
National Board, State, Province and No.

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







Certificate Holder's Serial No. \_\_\_\_\_


8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 150# (1)  
(pressure) (temperature)

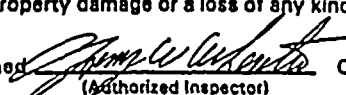
9. Cold working pressure 150PSIG @ 100F psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 315 psi

11. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFICATION OF DESIGN			
Design Specification certified by	<u>J. G. SHELLENBERGER</u>	PA	Reg. no. <u>19551-E</u>
Design Report certified by		P.E. State	Reg. no.

CERTIFICATE OF COMPLIANCE			
We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.			
N Certificate of Authorization No.	<u>N-2882</u>	Expires	<u>11/10/98</u>
Date	<u>02/02/98</u>	Name	<u>BNL INDUSTRIES, INC.</u>
	<small>(N Certificate Holder)</small>	Signed	 <small>(Authorized representative)</small>

CERTIFICATE OF INSPECTION			
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>CONNECTICUT</u> and employed by <u>COMMERCIAL UNION INS.</u> of <u>BOSTON, MASS</u> have inspected the pump, or valve, described in this Data Report on <u>02/02/98</u> , and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.			
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.			
Date	<u>2-2-98</u>	Signed	 <small>(Authorized Inspector)</small>
		Commissions	<u>CT 1343</u> <small>(Nat'l. Bd. (incl. endorsements) and state or prov. and no.)</small>

(1) For manually operated valves only.

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

1. Owner           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Date           July 31, 1998            
 Sheet           1           of           2          

2. Plant           Susquehanna Steam Electric Station            
Name  
          PO Box 467, Berwick, PA 18603            
Address

Unit           One            
          DCP 97-3019; WA's C73641, C73648, C73649,  
          C83111.  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by           Pennsylvania Power & Light Co.            
Name  
          Two North Ninth St., Allentown, PA 18101            
Address

Type Code Symbol           None            
 Authorization No.           N/A            
 Expiration Date           N/A          

4. Identification of System           Reactor Vessel System 161B, CL.2          

5. (a) Applicable Construction Code           ASME III           19           71           Edition,           thru W72           Addenda,           N416-1           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89                     1516-1 & 1534          

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)
Large Pipe Assembly	Bechtel	N/A	N/A	DBB-122-2	1982	Replaced	YES
Large Pipe Assembly	PP & L	N/A	N/A	DBB-122-2	1998	Replacement	NO
Small Pipe Assembly	PP & L	N/A	N/A	SPDBB122-4	1998	Replacement	NO
1" GLOBE VALVE	YARWAY	C2761	N/A	141028	1992	Replacement	YES
1" GLOBE VALVE	YARWAY	C2768	N/A	141029	1992	Replacement	YES
1" GLOBE VALVE	YARWAY	C2772	N/A	141030	1992	Replacement	YES

7. Description of Work           Install 1" drain line for LLRT Testing and welded new leak off plugs in vlvs 141021A/B.          

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure           1052           psi Test Temp.           169           °F SE-145-301

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

Construction Code for Yarway Valves: ASME Section III 1974 Edition with 1974 Addenda.

CERTIFICATION 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 \_\_\_\_\_ N/A

Certificate of Authorization No. \_\_\_\_\_ N/A Expiration \_\_\_\_\_ N/A

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title      Supv-Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO.\* of NORWOOD, MASS have inspected the

components described in this Owner's Report during the period FEB 2 1998 to MAY 21 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date AUGUST 17 19 98

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

1. Owner                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Date                     July 31, 1998                      
 Sheet           2           of           2          

2. Plant                     Susquehanna Steam Electric Station                      
Name  
                    PO Box 467, Berwick, PA 18603                      
Address

Unit                     One                      
                    DCP 97-3019; WA's C73641, C73648, C73649,                      
                    C83111                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name  
                    Two North Ninth St., Allentown, PA 18101                      
Address

Type Code Symbol                     None                      
 Authorization No.                     N/A                      
 Expiration Date                     N/A                    

4. Identification of System                     Reactor Vessel System 161B, CL.2                    

5. (a) Applicable Construction Code           ASME-III           19           71           Edition,           thru W72           Addenda,           N416-1           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89                     1516-1 & 1534          

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)
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1" GLOBE VALVE	YARWAY	C2762	N/A	141031	1992	Replacement	YES
3" GATE VALVE - Leak off pipe plug	Anchor Darling	E-6734-2-1	N/A	141021A	1986	Replaced	YES
3" GATE VALVE - Leak off pipe plug	PP & L	E-6734-2-1 HT. CODE 85K	N/A	141021A	1998	Replacement	NO
3" GATE VALVE - Leak off pipe plug	Anchor Darling	E-6734-2-2	N/A	141021B	1986	Replaced	YES
3" GATE VALVE - Leak off pipe plug	PP & L	E-6734-2-2 HT. CODE 73N	N/A	141021B	1998	Replacement	NO

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

As Required by the Provisions of the ASME Code, Section III, Div. 1... SHOP-ORDER 01195

REGISTER 16252

1. Manufactured by Yarway Corporation, Norristown & Narcissa Rds., Blue Bell, PA - 19422  
 (Name and Address of N Certificate Holder)  
 2. Manufactured for Penna. Power & Light Co., Two N. 9th St., Allentown, PA 18101  
 (Name and Address of Purchaser or Owner)  
 3. Location of Installation Susquehanna SES, Berwick, PA 18603 AH  
 (Name and Address)  
 4. Pump or Valve Valve Nominal Inlet Size 1 (inch) Outlet Size 1 (inch)

(a) Model No., (b) N Certificate Holder's, (c) Canadian

Series No. or Type Serial No. Registration No. (d) Drawing No. (e) Class (f) Nat'l. Bd. No. (g) Year Built

(24)

5615B-SA105	C2760	-	111082/None	1	-	1992
	through					
	C2783					

Nuclear Service Globe Valves

(Brief description of service for which equipment was designed)

CERTIFICATE OF COMPLIANCE

6. Design Conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or Valve Pressure Class 1500 (1)

7. Cold Working Pressure 3600 psi at 100°F

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
G90	AMS 5385E	Southern Tool, Inc.	Disc
(b) Forgings			
E87	ASME SA105	Endicott Forging & Mfg Co., Inc.	Body

(1) For manually operated valves only. Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11" (2) information is recorded at top of this form.

No. 42-0222  
 REPORT PACKAGE  
 PAGE 74 OF 84

This form (E00077) may be obtained from the Order Dept., ASME, 35 E. 47th St., New York, N.Y. 10017.





Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
N/A			
(d) Other Parts			
4345	ASME SA182 Gr. F6a Class 2	Atlas Steels	Backseat Bushing

9. Hydrostatic test 5400 psi. Disk Differential test pressure 3960 psi.

**CERTIFICATE OF COMPLIANCE**

(1) We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda W1974, Code Case No. \_\_\_\_\_, Date 2/28/92.

Signed Yarway Corporation by F. W. Peszka  
(N Certificate Holder)

Our ASME Certificate of Authorization No. N2449 to use the N symbol expires 11/14/92.

**CERTIFICATION OF DESIGN**

Design information on file at Pennsylvania Power & Light Company  
Stress analysis report (Class 1 only) on file at Pennsylvania Power & Light Company

Design specifications certified by (1) John R. Schmiedel, Richard O. Schlueter, Sidney A. Copland  
PE State PA, PA, PA Reg. No. 19370E, 26382E, 19877E

Stress analysis certified by (1) George J. Paptzun  
PE State PA Reg. No. PE-034809-E

(1) Signature not required. List name only.

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance of Norwood, MA have inspected the pump, or valve, described in this Data Report on FEB 28 19 92, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date: FEB 28 19 92  
William R. Repetto Commissions: NB7980 PA2204 NIBSIES  
Inspector (Natl Bd, State, Prov. and No.)

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

1. Owner Pennsylvania Power & Light Co. Date July 31, 1998  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603  
Address  
DCP 97-3014A; WA's C73696, C73672  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol None  
Name  
Two North Ninth St., Allentown, PA 18101  
Address  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System Reator Vessel System 162A, CL.1

5. (a) Applicable Construction Code ASME III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Small Pipe Assembly	Bechtel	N/A	N/A	SPDCA103-6	1982	Replaced	YES
Small Pipe Assembly	PP & L	N/A	N/A	SPDCA103-6	1998	Replacement	NO
Small Pipe Support	Bechtel	N/A	N/A	SPJBD188-H1	1982	Replaced	NO
Small Pipe Support	PP & L	N/A	N/A	SPDCD122-H1	1998	Replacement	NO

7. Description of Work Replace 2" drain line with 2" Blind Flange Assembly and replaced bolting for support.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 1041 psi Test Temp. 193 °F SE-100-002

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

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 \_\_\_\_\_ N/A \_\_\_\_\_

Certificate of Authorization No. \_\_\_\_\_ N/A \_\_\_\_\_ Expiration \_\_\_\_\_ N/A \_\_\_\_\_

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title      Supv-Site Modification Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS have inspected the components described in this Owner's Report during the period FEB 10 1998 to MAY 11 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 1BNA PA 2159  
Inspector's Signature      National Board, State, Province, and Endorsements

Date August 17 19 98

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     July 23, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     2                      
Address  
 2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     DCP 97-3017;  
Address                     WAs C73635, C73636, C73687, C73688                      
Repair Organization P.O. No., Job No., etc.  
 3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RECIRC WATER LOOP AND JET PUMP SYSTEM 164B, CLASS I.                      
 5. (a) Applicable Construction Code                     III                     19                     71                     Edition, thru S'71 Addenda,                     N/A                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                    

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) SEAL	BYRON JACKSON	711-S-0803	N/A	N/A	1975	REPAIRED	YES
2) SEAL	BYRON JACKSON	711-S-0801	N/A	1P401A	1973	REPLACED	YES
3) SEAL	BYRON JACKSON	711-S-0803	N/A	1P401A	1975	REPLACEMENT	YES
4) SEAL	BYRON JACKSON	793-W-5468	N/A	N/A	1981	REPAIRED	YES
5) SEAL	BYRON JACKSON	841-W-4628	N/A	1P401B	1985	REPLACED	YES
6) SEAL	BYRON JACKSON	793-W-5468	N/A	1P401B	1981	REPLACEMENT	YES

7. Description of Work                     MODIFIED SEALS TO N7500 DESIGN; REPLACED SEALS IN 1P401A & 1P401B.                      
 8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure                     1051                     psig Test Temp.                     167.1                     °F VT-2 per SE-100-002

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

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CODE OF CONSTRUCTION FOR SEALS IS ASME III, '71 EDITION, S'71 ADDENDA;

EXCEPT FOR S/N 841-W-4628 WHICH IS ASME III, '80 EDITION, W'80 ADDENDA.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date Aug 4, 1995  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS

have inspected the components described in this Owner's Report during the period FEB. 10 1998 to JUNE 3 1998 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date August 17 19 98

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     July 23, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     2                     of                     2                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     DCP 97-3017;  
Address                     WAs C73635, C73636, C73687, C73688                      
Repair Organization P.O. No., Job No., etc.

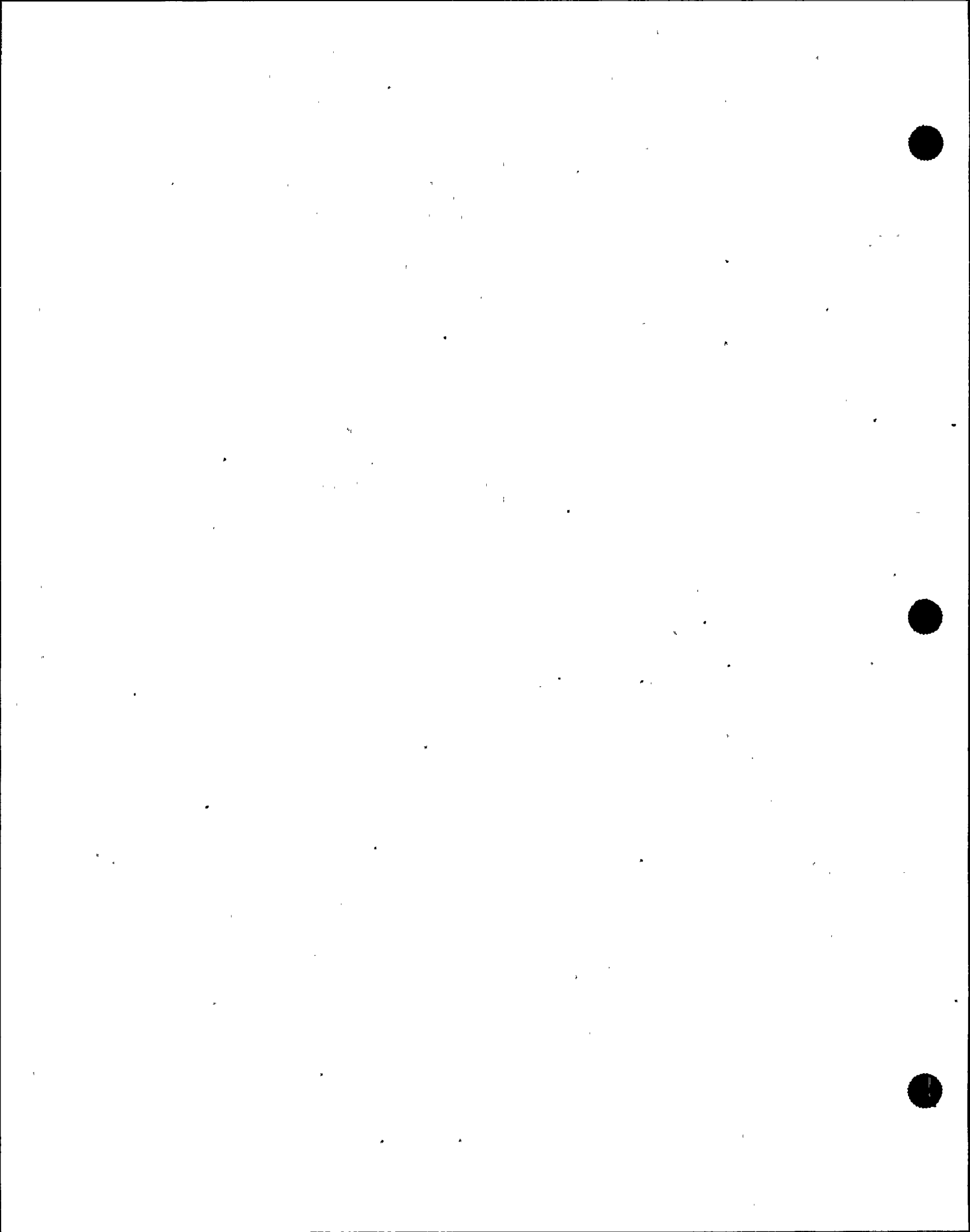
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     RECIRC WATER LOOP AND JET PUMP SYSTEM 164B, CLASS I.                    

5. (a) Applicable Construction Code                     III                     19                     71                     Edition, thru S71 Addenda,                     N/A                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                    

6. Identification of Components Repaired or Replaced and Replacement Components

1) SEAL	WORK AUTHORIZATION NO.	ASME CODE PROGRAM FORM NO.
1) SEAL	C73687	G97-164-188
2) SEAL	C73635	98-164-001
3) SEAL	C73635	98-164-001
4) SEAL	C73688	G97-164-189
5) SEAL	C73636	98-164-002
6) SEAL	C73636	98-164-002



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

1. Owner                     Pennsylvania Power & Light Co.                      
Name

Date                     July 21, 1998                    

                    Two North Ninth St., Allentown, PA 18101                      
Address

Sheet           1           of           2          

2. Plant                     Susquehanna Steam Electric Station                      
Name

Unit                     One                    

                    PO Box 467, Berwick, PA 18603                      
Address

                    DCP 97-3014B; WA's C73673, C73674, C73697                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                      
Name

Type Code Symbol Stamp                     None                    

                    Two North Ninth St., Allentown, PA 18101                      
Address

Authorization No.                     N/A                    

Expiration Date                     N/A                    

4. Identification of System                     Reactor Water and Jet Pump System 164B, CL.1                    

5. (a) Applicable Construction Code           ASME III           19           71           Edition,           thru W72           Addenda,           N/A           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Small Pipe Assembly	Bechtel	N/A	N/A	SPDCA151-2	1982	Replaced	YES
Remove Existing 1" Valve	Borg Warner	19493	N/A	143F036A	1976	Replaced	YES
Remove Existing 1" Valve	Borg Warner	19449	N/A	143F037A	1976	Replaced	YES
Small Pipe Support	Bechtel	N/A	N/A	SPDCA151-H2010	1982	Replaced	NO
Small Pipe Assembly	PP & L	N/A	N/A	SPDCA151-2	1998	Replacement	NO
Install New 1" Valve	YARWAY	C-2661	N/A	143F036A	1990	Replacement	YES

7. Description of Work                     Replace HV143-F031A/B valve drain line, valves and supports.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure           1041           psi Test Temp.           193           °F SE-100-002

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



FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

Construction Code for Yarway Valves: ASME Section III 1986 Edition.

Construction Code for Borg Warner Valves is: ASME Section III 1974 Edition with 1974 Addenda.

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner of Owner's Design, Title Supv-Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO.\* of NORWOOD, MASS

have inspected the components described in this Owner's Report during the period NOV. 21, 1998 to MAY 6, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 IBNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUGUST 17 19 98

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

1. Owner Pennsylvania Power & Light Co. Date July 16, 1998  
Name
- Two North Ninth St., Allentown, PA 18101 Sheet 2 of 2  
Address
2. Plant Susquehanna Steam Electric Station Unit One  
Name
- PO Box 467, Berwick, PA 18603 DCP 97-3014B; WA's C73673, C73674, C73697  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name
- Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System Reactor Water and Jet Pump System 164B, CL.1
5. (a) Applicable Construction Code ASME III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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Small Pipe Support	PP & L	N/A	N/A	SPDCA151-H2010	1998	Replacement	NO
Small Pipe Assembly	Bechtel	N/A	N/A	SPDCA151-1	1982	Replaced	YES
Remove Existing 1" Valve	Borg Warner	19462	N/A	143F036B	1976	Replaced	YES
Remove Existing 1" Valve	Borg Warner	19429	N/A	143F037B	1976	Replaced	YES
Small Pipe Support	Bechtel	N/A	N/A	SPDCA151-H2008	1982	Replaced	NO
Small Pipe Assembly	PP & L	N/A	N/A	SPDCA151-1	1998	Replacement	NO
Install New 1" Valve	YARWAY	C0587	N/A	143F036B	1990	Replacement	YES
Small Pipe Support	PP & L	N/A	N/A	SPDCA151-H2008	1998	Replacement	NO





FORM NPV-1 (back)

8. Remarks Nuclear Service Valves, Qty. 17

Bonnet (column d) is replaced by backseat bushing in this valve design

9. Design conditions --- psi --- °F or valve pressure class 1500 (1)  
(pressure) (temperature)

10. Cold working pressure 3000 psi at 100°F

11. Hydrostatic test 4500 psi. Disk differential test pressure 3300 psi

CERTIFICATION OF DESIGN

Design Specification certified by Matthew Hober Jr. P.E. State PA Reg. no. 20118E  
 Design Report certified by George J. Loos P.E. State NJ Reg. no. 23225

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N-2449 Expires 11/14/92

Date 10/24/90 Name Yarway Corporation Signed [Signature]  
(N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Ins. Co. of Norwood, MA\* have inspected the pump, or valve, described in this Data Report on OCTOBER 24, 19 90, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 10-24-90 Signed [Signature] Commissions PA 2006  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

SHOP ORDER 72341 REGISTER 89670  
 FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*  
 As Required by the Provisions of the ASME Code, Section III, Division 1

366

1. Manufactured and certified by Yarway Corporation, Blue Bell, PA 19422  
(name and address of N Certificate Holder)
2. Manufactured for Penna. Power & Light Company, Allentown, PA 18101  
(name and address of Purchaser or Owner)
3. Location of installation Susquehanna SES, Berwick, PA 18603  
(name and address)
4. Model No., Series No., or Type 5615B-F316L Drawing 109408 Rev. A CRN ---
5. ASME Code, Section III, Division 1: 1986 --- 1 ---  
(edition) (addenda date) (class) (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1 Outlet size 1  
SA-182 SA-182 (in.) (in.)
7. Material: Body Gr. F316L Bonnet Gr. F6a Cl. 2 Disk AMS5385E Bolting N/A  
SA-564 Gr. 630 nsd (msd) 9/18/90

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
C0561	---	BA	2906	NCR
C0563		All valves listed on this report have the same heat code for each piece listed.		
C0573				
C0581				
C0587				
C0604				
C0646				
C0671				
C0680				
C0685				
C0715				
C0716				
C0723				
C0724				
C0734				
C0746				
C0763				
C0764				
C0781				
C0795				
C0808				
C0809				
C0811				
C0819				
C0820				

\* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (back)

8. Remarks Nuclear Service Valves, Qty. 25

Bonnet (column d) is replaced by backseat bushing in this valve design.

9. Design conditions --- psi --- °F or valve pressure class 1500 (1)  
(pressure) (temperature)

10. Cold working pressure 3000 psi at 100°F

11. Hydrostatic test 4500 psi. Disk differential test pressure 3300 psi

CERTIFICATION OF DESIGN

Design Specification certified by Matthew Hober Jr. P.E. State PA Reg. no. 20118E  
 Design Report certified by George J. Loos P.E. State NJ Reg. no. 23225

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N-2449 Expires 11/14/92

Date 9-17-90 Name Yarway Corporation Signed C. J. Root  
(N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Ins. Co. of Norwood, MA\* have inspected the pump, or valve, described in this Data Report on SEPTEMBER 17, 19 90, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 9-17-90 Signed Jim. Hinko Commissions Pa. 2006  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date June 10, 1998  
 Sheet 1 of 6

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One  
DCP # 95-9062, WA's C73837-C73856, C83070,  
C83215, C83908  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System Main Steam, System 183A, Class II

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, None Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) Pipe Assembly	Bechtel PP&L	NA	NA	SPDBB101-4	1982 1986 1996	Replaced	Yes
2) Pipe Assembly	PP&L	NA	NA	SPDBB101-4	1998	Replacement	No
3) Pipe Assembly	Bechtel PP&L	NA	NA	SPDBB101-5	1982	Replaced	Yes
4) Pipe Assembly	PP&L	NA	NA	SPDBB101-5	1998	Replacement	No
5) Pipe Assembly	Bechtel PP&L	NA	NA	SPDBB102-4	1982 1986	Replaced	Yes
6) Pipe Assembly	PP&L	NA	NA	SPDBB102-4	1998	Replacement	No
7) Pipe Assembly	Bechtel PP&L	NA	NA	SPDBB102-5	1982 1986 1996	Replaced	Yes
8) Pipe Assembly	PP&L	NA	NA	SPDBB102-5	1998	Replacement	No

7. Description of Work Replace level switches. Rework supports and root valves.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  None Required  
 Other  Pressure \_\_\_\_\_ psl Test Temp. \_\_\_\_\_ °F

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



FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED

Applicable Manufacturer's Data Reports to be attached

Construction Code for Yarway parts is ASME Section III 1986 Edition with no Addenda

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described in this Owner's Report during the period FEB. 20, 1998 to MAY 19, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 IBNA PA 2159  
National Board, State, Province, and Endorsements

Date AUGUST 17 19 98

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     June 10, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     2                     of                     6                      
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     DCP # 95-9062, WA's C73837-C73856, C83070,  
Address                     C83215, C83908                      
Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A
4. Identification of System                     Main Steam, System 183A, Class II
5. (a) Applicable Construction Code                     III                     19                     71                     Edition,                     thru W72                     Addenda,                     None                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
9) Pipe Assembly	Bechtel PP&L	NA	NA	SPDBB103-4	1982 1986 1996	Replaced	Yes
10) Pipe Assembly	PP&L	NA	NA	SPDBB103-4	1998	Replacement	No
11) Pipe Assembly	Bechtel PP&L	NA	NA	SPDBB103-5	1982 1996	Replaced	Yes
12) Pipe Assembly	PP&L	NA	NA	SPDBB103-5	1998	Replacement	No
13) Pipe Assembly	Bechtel PP&L	NA	NA	SPDBB104-4	1982 1984 1988	Replaced	Yes
14) Pipe Assembly	PP&L	NA	NA	SPDBB104-4	1998	Replacement	No
15) Pipe Assembly	Bechtel	NA	NA	SPDBB104-5	1982	Replaced	Yes
16) Pipe Assembly	PP&L	NA	NA	SPDBB104-5	1998	Replacement	No
17) Pipe Assembly	Bechtel	NA	NA	SPDBB105-2	1982	Replaced	Yes
18) Pipe Assembly	PP&L	NA	NA	SPDBB105-2	1998	Replacement	No
19) Pipe Assembly	Bechtel PP&L	NA	NA	SPDBB105-3	1982 1986 1996	Replaced	Yes
20) Pipe Assembly	PP&L	NA	NA	SPDBB105-3	1998	Replacement	No

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     June 10, 1998                      
Name
- Two North Ninth St., Allentown, PA 18101                     Sheet                     3                     of                     6                      
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name
- PO Box 467, Berwick, PA 18603                     DCP # 95-9062, WA's C73837-C73856, C83070,  
Address                     C83215, C83908                      
Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name
- Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address
- Expiration Date                     N/A
4. Identification of System                     Main Steam, System 183A, Class II
5. (a) Applicable Construction Code                     III                     19                     71                     Edition,                     thru W72                     Addenda,                     None                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
21) Pipe Support	Bechtel	NA	NA	SPDBB101-H1	1982	Replaced	No
22) Pipe Support	PP&L	NA	NA	SPDBB101-H1	1998	Replacement	No
23) Pipe Support	Bechtel	NA	NA	SPDBB101-H7	1982	Replaced	No
24) Pipe Support	PP&L	NA	NA	SPDBB101-H7	1998	Replacement	No
25) Pipe Support	Bechtel	NA	NA	SPDBB101-H8	1982	Replaced	No
26) Pipe Support	PP&L	NA	NA	SPDBB101-H8	1998	Replacement	No
27) Pipe Support	Bechtel	NA	NA	SPDBB102-H8	1982	Replaced	No
28) Pipe Support	PP&L	NA	NA	SPDBB102-H8	1998	Replacement	No
29) Pipe Support	Bechtel	NA	NA	SPDBB102-H9	1982	Replaced	No
30) Pipe Support	PP&L	NA	NA	SPDBB102-H9	1998	Replacement	No
31) Pipe Support	Bechtel PP&L	NA	NA	SPDBB102- H2000	1982 1983	Replaced	No
32) Pipe Support	PP&L	NA	NA	SPDBB102- H2000	1998	Replacement	No

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

1. Owner Pennsylvania Power & Light Co. Date June 10, 1998  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 4 of 6  
Address
2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 DCP # 95-9062, WA's C73837-C73856, C83070,  
Address C83215, C83908  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System Main Steam, System 183A, Class II
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, None Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
33) Pipe Support	Bechtel	NA	NA	SPDBB102-H2001	1982	Replaced	No
34) Pipe Support	PP&L	NA	NA	SPDBB102-H2001	1998	Replacement	No
35) Pipe Support	Bechtel	NA	NA	SPDBB102-H2008	1982	Replaced	No
36) Pipe Support	PP&L	NA	NA	SPDBB102-H2008	1998	Replacement	No
37) Pipe Support	Bechtel	NA	NA	SPDBB103-H7	1982	Replaced	No
38) Pipe Support	PP&L	NA	NA	SPDBB103-H7	1998	Replacement	No
39) Pipe Support	Bechtel	NA	NA	SPDBB103-H8	1982	Replaced	No
40) Pipe Support	PP&L	NA	NA	SPDBB103-H8	1998	Replacement	No
41) Pipe Support	Bechtel	NA	NA	SPDBB103-H9	1982	Replaced	No
42) Pipe Support	PP&L	NA	NA	SPDBB103-H9	1998	Replacement	No
43) Pipe Support	Bechtel	NA	NA	SPDBB103-H2001	1982	Replaced	No
44) Pipe Support	Bechtel	NA	NA	SPDBB104-H9	1982	Replaced	No



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     June 10, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     5                     of                     6                      
Address
2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     DCP # 95-9062, WA's C73837-C73856, C83070,  
Address                     C83215, C83908                      
Repair Organization P.O. No., Job No., etc.
3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A
4. Identification of System                     Main Steam, System 183A, Class II
5. (a) Applicable Construction Code                     III                     19                     71                     Edition,                     thru W72                     Addenda,                     None                     Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
45) Pipe Support	PP&L	NA	NA	SPDBB104-H9	1998	Replacement	No
46) Pipe Support	Bechtel	NA	NA	SPDBB104-H2006	1982	Replaced	No
47) Pipe Support	PP&L	NA	NA	SPDBB104-H2006	1998	Replacement	No
48) Pipe Support	Bechtel	NA	NA	SPDBB104-H2007	1982	Replaced	No
49) Pipe Support	PP&L	NA	NA	SPDBB104-H2007	1998	Replacement	No
50) Pipe Support	Bechtel	NA	NA	SPDBB105-H8	1982	Replaced	No
51) Pipe Support	PP&L	NA	NA	SPDBB105-H8	1998	Replacement	No
52) Pipe Support	Bechtel	NA	NA	SPDBB105-H9	1982	Replaced	No
53) Pipe Support	PP&L	NA	NA	SPDBB105-H9	1998	Replacement	No
54) Pipe Support	Bechtel	NA	NA	SPDBB105-H10	1982	Replaced	No
55) Pipe Support	PP&L	NA	NA	SPDBB105-H10	1998	Replacement	No
56) Pipe Support	Bechtel	NA	NA	SPDBB101-H1	1982	Replaced	No

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

1. Owner Pennsylvania Power & Light Co. Date June 10, 1998  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 6 of 6  
Address
2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 DCP # 95-9062, WA's C73837-C73856, C83070,  
Address C83215, C83908  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System Main Steam, System 183A, Class II
5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, None Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
57) Pipe Support	PP&L	NA	NA	SPDBB101-H1	1998	Replacement	No
58) Pipe Support	Bechtel	NA	NA	SPDBB104-H2000	1982	Replaced	No
59) Pipe Support	Bechtel	NA	NA	SPDBB104-H7	1982	Replaced	No
60) 1"- Valve Stem/Disc Assy/BS Bushing	Yarway	6243	NA	LSH10112A-BTM	1976	Replaced	Yes
61) Stem/Disc Assy Backseat Bushing	Yarway	90-1-2W1-B24 Ht# 5293	NA	LSH10112A-BTM	1992 1984	Replacement	Yes
62) 1"- Valve Stem/Disc Assy	Yarway	6052	NA	LSL10112A-R2	1976	Replaced	Yes
63) Stem/Disc Assy	Yarway	A-V94-A2	NA	LSL10112A-R2	1997	Replacement	Yes
64) 1"- Valve Stem/Disc Assy/BS Bushing	Yarway	6472	NA	LSL10112D-R4	1976	Replaced	Yes
65) Stem/Disc Assy Backseat Bushing	Yarway	91-11-1G-D13 Ht # 1683	NA	LSL10112D-R4	1996	Replacement	Yes





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

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

Pg. 1 of 1

Manufactured and certified by Yarway Corporation, \* 480 Norristown Rd., Blue Bell, PA 19422  
(name and address of NPT Certificate Holder)

Manufactured for Framatome Technologies, Lynchburg, VA 24506  
(name and address of purchaser)

3. Location of installation Stock  
(name and address)

4. Type 969155-02 AMS5385E (disc) 52,000 PSI Min. N/A 1996  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)

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

7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.

\*A Subsidiary of Keystone International, Inc.

8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----

9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1) 91-11-1G-D1	- - - -
(2) 91-11-1G-D2	- - - -
(3) 91-11-1G-D3	- - - -
(4) 91-11-1G-D4	- - - -
(5) 91-11-1G-D5	- - - -
(6) 91-11-1G-D6	- - - -
(7) 91-11-1G-D7	- - - -
(8) 91-11-1G-D8	- - - -
(9) 91-11-1G-D9	- - - -
(10) 91-11-1G-D10	- - - -
(11) 91-11-1G-D11	- - - -
(12) 91-11-1G-D12	- - - -
(13) 91-11-1G-D13	- - - -
(14) 91-11-1G-D14	- - - -
(15) 91-11-1G-D15	- - - -
(16) 91-11-1G-D16	- - - -
(17) 91-11-1G-D17	- - - -
(18) 91-11-1G-D18	- - - -
(19) 91-11-1G-D19	- - - -
(20) 91-11-1G-D20	- - - -
(21) 91-11-1G-D21	- - - -
(22) 91-11-1G-D22	- - - -
(23) 91-11-1G-D23	- - - -
(24) 91-11-1G-D24	- - - -
(25)	

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

ETI  
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CBR

Pressure \* psi. Temp. \* °F. Hydro. test pressure N/A at temp (when applicable)

for ANSI Class 1500 Valves  
Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1 inch conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1998

Date 22 July 1996 Name Yarway Corporation Signed F. W. Peszka  
(NPT Certificate Holder) (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

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

of Norwood, MA have inspected these items described in this Data Report on 22 July 96 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Signed [Signature] \* Factory Mutual Engineering Association Commissions NB 11207 INA P2267  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

FTI  
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CBR

CORRECTED COPY *2/6/97*  
*2/10/97*

SHOP ORDER 13258

STER(S) 01040

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL  
NUCLEAR PARTS AND APPURTENANCES\*  
As Required by the Provisions of the ASME Code, Section III  
Not to Exceed One Day's Production

Pg. 1 of 1

- Manufactured and certified by YARWAY CORPORATION\*, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760  
\* A SUBSIDIARY OF KEYSTONE INTERNATIONAL, INC. (name and address of NPT Certificate Holder)
- Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24508  
(name and address of purchaser)
- Location of installation STOCK  
(name and address)
- Type 969155-08 AMS5385E (disc) 52,000 PSI MIN. N/A 1997  
(drawing no.) (matl. spec. no.) (nominal strength) (CRM) (year built)
- ASME Code, Section III: 1986 NONE 1 2/10/97  
(edition) (addenda date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) --- R. sion --- Date ---  
(no.)
- Remarks: FABRICATED IN ACCORDANCE WITH CONSTRUCTION DATA 96900. F.V. A. PRESSURE RETAINING PARTS FOR YARWAY SERIES 5500 GLOBE VALVE. THE OWNER OR THEIR DESIGNER SHALL BE RESPONSIBLE FOR RECONCILING THIS CONSTRUCTION DATA WITH THE DESIGN SPECIFICATION FOR THE PARTS USING THE PARTS.
- Nom. thickness (in.) --- Min. design thickness (in.) --- ID (ft. & in.) --- Length overall (ft. & in.) ---
- When applicable, Certificate Holders' Data Reports are attached to each item of this report

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) AV94-A1	---	(26)	---
(2) AV94-A2	---	(27)	---
(3) AV94-A3	---	(28)	---
(4) AV94-A4	---	(29)	---
(5) AV94-A5	---	(30)	---
(6) AV94-A6	---	(31)	---
(7) AV94-A7	---	(32)	---
(8) AV94-A8	---	(33)	---
(9) AV94-A9	---	(34)	---
(10) AV94-A10	---	(35)	---
(11) AV94-A11	---	(36)	---
(12) AV94-A12	---	(37)	---
(13) AV94-A13	---	(38)	---
(14) AV94-A14	---	(39)	---
(15) AV94-A15	---	(40)	---
(16)	---	(41)	---
(17)	---	(42)	---
(18)	---	(43)	---
(19)	---	(44)	---
(20)	---	(45)	---
(21)	---	(46)	---
(22)	---	(47)	---
(23)	---	(48)	---
(24)	---	(49)	---
(25)	---	(50)	---

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CBR

10. Design pressure --- psi. Temp. --- °F Hydro. test pressure N/A at temp. --- °F  
\*FOR ANSI CLASS 1500 VALVES (when applicable)

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

FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

Design specifications certified by (SEE REMARKS) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) STEM AND DISC ASSEMBLIES, 1 INCH  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires NOVEMBER 14, 1998

Date 10/24/97 Name YARWAY CORPORATION Signed [Signature]  
(NPT Certificate Holder) (authorized representative)  
F. W. PESZKA

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of  
PENNSYLVANIA and employed by \* ARKWRIGHT MUTUAL INSURANCE COMPANY  
of NORWOOD, MA have inspected these items described in this Data Report on 10/24/97  
and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the  
ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in  
this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

\*FACTORY MUTUAL ENGINEERING ASSOCIATION

Date 10/24/97 Signed [Signature] Commissions NB9541 "N" PA2389  
10/28/97 (authorized inspector) (Natl. Bd. (incl. endorsements) state or prov. and no.)  
NB 11207 "N" PA 2607

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CBR

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

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

Pg. 1 of 1

1. Manufactured and certified by Yarway Corporation, 480 Norristown Rd., Blue Bell, PA 19422  
(Name and address of NPT Certificate Holder)
2. Manufactured for B & W Nuclear Services, SPIS, Lynchburg, VA 24506  
(Name and address of purchaser)
3. Location of installation Stock  
(Name and address)
4. Type 969155-06 AMS5385E (disc) 52,000 PSI Min. N/A 1992  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III: 1986 None 1 N/A  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) ---- Revision ---- Date ----  
(no.)
7. Remarks: Fabricated in accordance with Construction Data 969005 Rev. A, pressure retaining parts for Yarway Series 5500 Globe Valve. The owner or their designee shall be responsible for reconciling this construction data with the design specification for the facility using the parts.
8. Nom. thickness (in.) ---- Min. design thickness (in.) ---- Dia. ID (ft & in.) ---- Length overall (ft & in.) ----
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

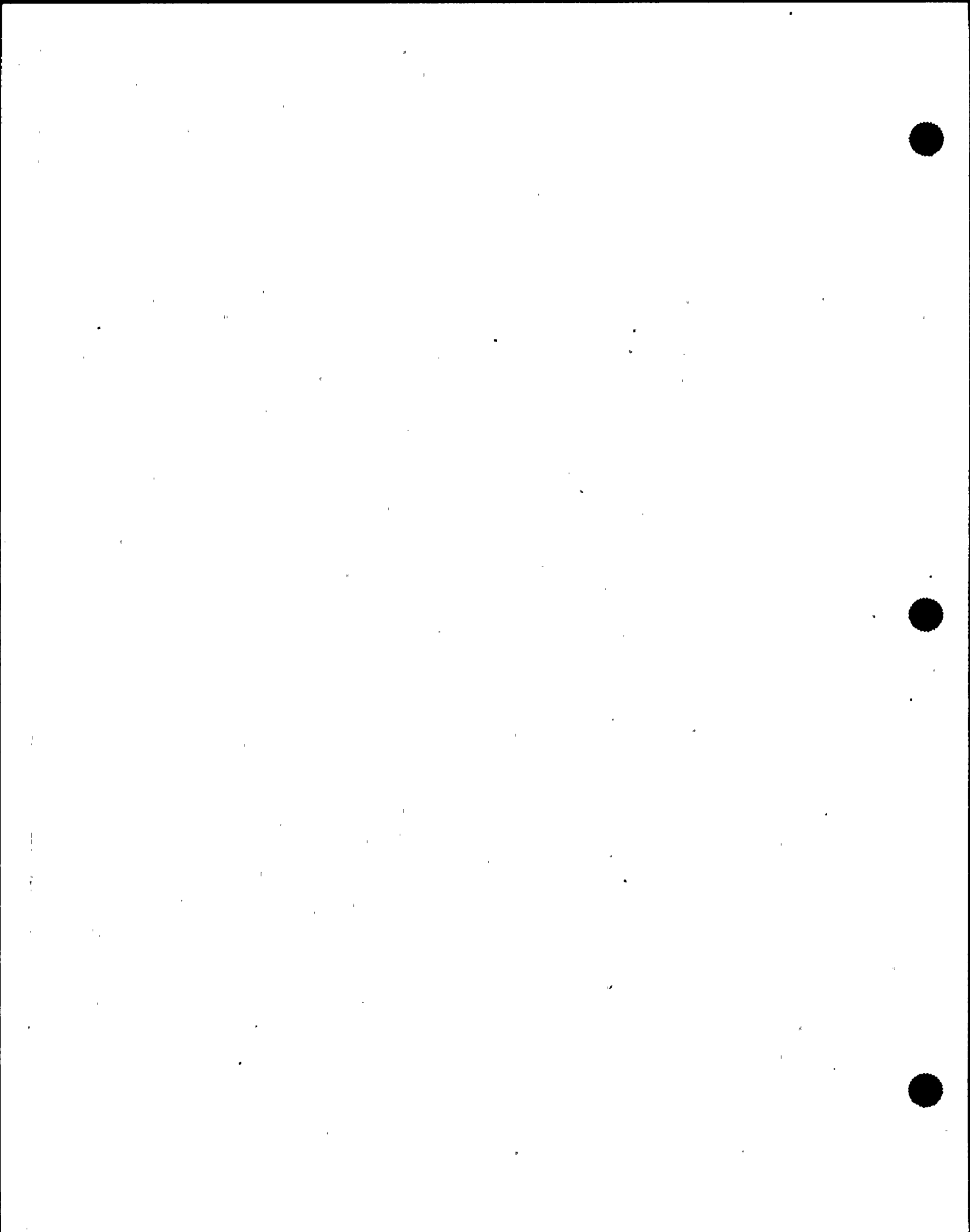
Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 90-1-2W1-B1	- - - -
(2) 90-1-2W1-B2	- - - -
(3) 90-1-2W1-B3	- - - -
(4) 90-1-2W1-B4	- - - -
(5) 90-1-2W1-B5	- - - -
(6) 90-1-2W1-B6	- - - -
(7) 90-1-2W1-B7	- - - -
(8) 90-1-2W1-B8	- - - -
(9) 90-1-2W1-B9	- - - -
(10) 90-1-2W1-B10	- - - -
(11) 90-1-2W1-B11	- - - -
(12) 90-1-2W1-B12	- - - -
(13) 90-1-2W1-B13	- - - -
(14) 90-1-2W1-B14	- - - -
(15) 90-1-2W1-B15	- - - -
(16) 90-1-2W1-B16	- - - -
(17) 90-1-2W1-B17	- - - -
(18) 90-1-2W1-B18	- - - -
(19) 90-1-2W1-B19	- - - -
(20) 90-1-2W1-B20	- - - -
(21) 90-1-2W1-B21 ✓	- - - -
(22) 90-1-2W1-B22	- - - -
(23) 90-1-2W1-B23 ✓	- - - -
(24) 90-1-2W1-B24 ✓	- - - -
(25) 90-1-2W1-B25	- - - -

Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26) 90-1-2W1-B26 ✓	- - - -
(27) 90-1-2W1-B27	- - - -
(28) 90-1-2W1-B28	- - - -
(29) 90-1-2W1-B29 ✓	- - - -
(30) 90-1-2W1-B30 ✓	- - - -
(31) 90-1-2W1-B31	- - - -
(32) 90-1-2W1-B32	- - - -
(33) 90-1-2W1-B33 ✓	- - - -
(34) 90-1-2W1-B34 ✓	- - - -
(35) 90-1-2W1-B35	- - - -
(36) 90-1-2W1-B36	- - - -
(37) 90-1-2W1-B37	- - - -
(38) 90-1-2W1-B38	- - - -
(39) 90-1-2W1-B39	- - - -
(40) 90-1-2W1-B40 ✓	- - - -
(41) 90-1-2W1-B41	- - - -
(42) 90-1-2W1-B42	- - - -
(43) 90-1-2W1-B43	- - - -
(44) 90-1-2W1-B44	- - - -
(45) 90-1-2W1-B45	- - - -
(46) 90-1-2W1-B46 ✓	- - - -
(47) 90-1-2W1-B47 ✓	- - - -
(48) 90-1-2W1-B48	- - - -
(49) 90-1-2W1-B49	- - - -
(50) 90-1-2W1-B50	- - - -

10. Design pressure \* \_\_\_\_\_ psi. Temp. \* \_\_\_\_\_ °F. Hydro. test pressure N/A at temp. °F  
(when applicable)

\* For ANSI Class 1500 Valves

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



CERTIFICATION OF DESIGN

Design specifications certified by (See remarks) P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_  
(when applicable)

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Stem & Disc Assemblies, 1"  
 conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November 14, 1995

Date 21 Dec 92 Name Yarway Corporation Signed *F. W. Peszka*  
(NPT Certificate Holder) (authorized representative)  
 F. W. Peszka

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Company\*  
 of Norwood, MA have inspected these items described in this Data Report on 12-21-92, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section

II. Each part listed has been authorized for stamping on the date shown above.  
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. \* Factory Mutual System

Date 12-21-92 Signed *M. S. A...* Commissions *PA 2056 NISBIS*  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

1. Owner Pennsylvania Power & Light Co.  
Name

Date July 23, 1998

Two North Ninth St., Allentown, PA 18101  
Address

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station  
Name

Unit One

PO Box 467, Berwick, PA 18603  
Address

DCP 97-3014C; WA C73677  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name

Type Code Symbol Stamp None

Two North Ninth St., Allentown, PA 18101  
Address

Authorization No. N/A

Expiration Date N/A

4. Identification of System Auto Pressure Blowdown System, CL. III

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Modify Existing Small Pipe Support	Bechtel	N/A	N/A	SPHCC133-H2008	1982	Replaced	NO
Modify Existing Small Pipe Support	PP & L	N/A	N/A	SPHCC133-H2008	1998	Replacement	NO

7. Description of Work Weld new SPD-1 pipe anchor for SPJBD1099-H5 to existing SPHCC133-H2008.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F None Required

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



FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 \_\_\_\_\_ N/A

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

Signed [Signature] Date Aug 6 .19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. \* of NORWOOD, MASS have inspected the components described

in this Owner's Report during the period APRIL 23 1998 to MAY 8, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions NB 7525 1BNA PA 2159  
National Board, State, Province, and Endorsements

Date August 17 19 98

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

1. Owner Pennsylvania Power & Light Co. Date JUNE 29, 1998  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 1 of 22  
Address

2. Plant Susquehanna Steam Electric Station Unit One  
Name  
PO Box 467, Berwick, PA 18603 DCP 94-3007E : WA'S C63037,  
Address C63038, C63039, C53507, C53509, C53510  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System MSIV - LEAKAGE CONTROL SYSTEM - CLASS II

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda,            Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPDBB123-2	1982	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H9	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H2005	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H10	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H2006	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H11	1982	REPLACED	NO

7. Description of Work DELETION OF MSIV - LEAKAGE CONTROL SYSTEM

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

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

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

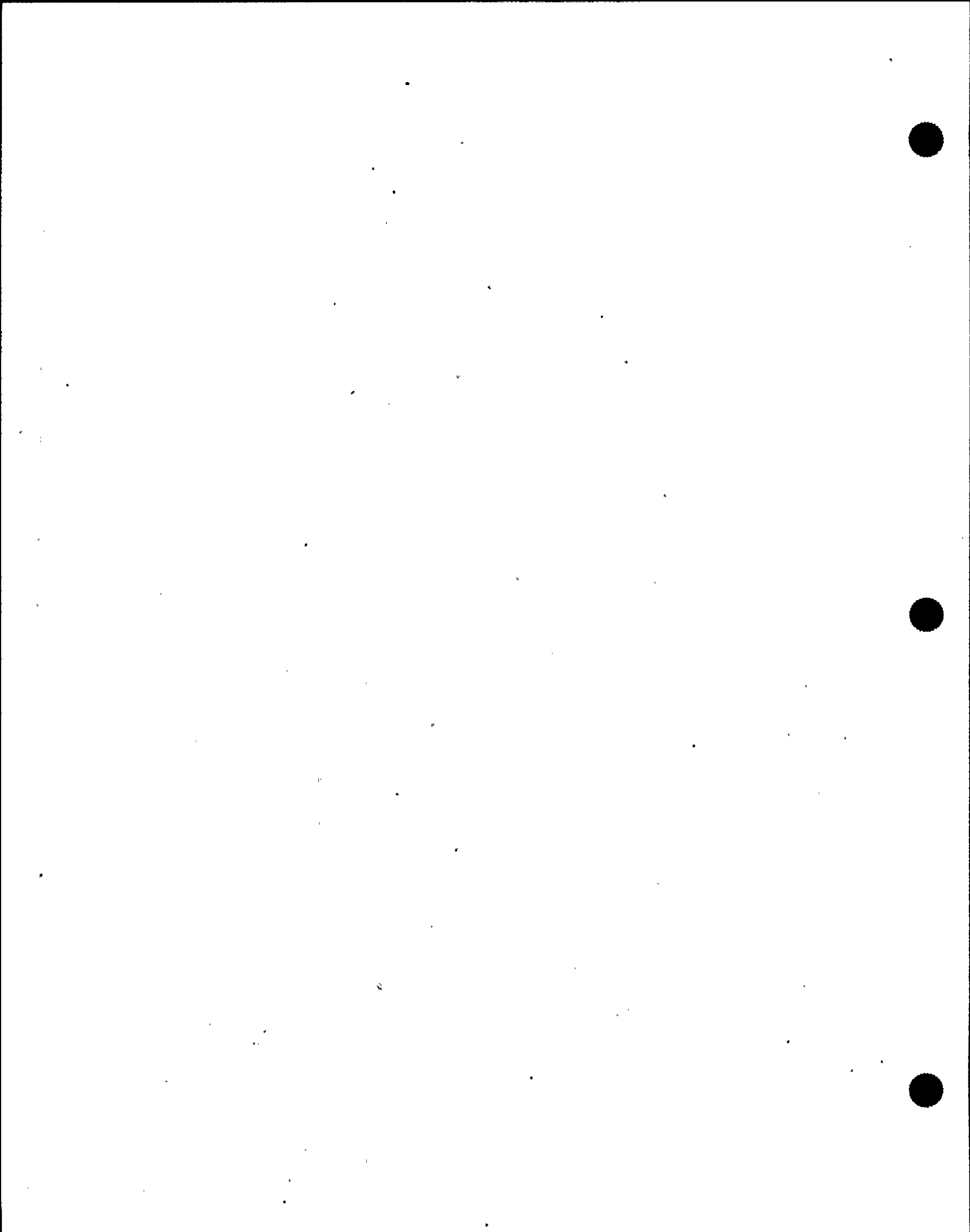
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASS have inspected the components described in this Owner's Report during the period MARCH 26 1996 to JUNE 3 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 7525 1BNA PA 2159  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUGUST 17 19 98









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

1. Owner Pennsylvania Power & Light Co. Date JUNE 29, 1998  
Name  
Two North Ninth St., Allentown, PA 18101 Sheet 4 of 22  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
PO Box 467, Berwick, PA 18603 DCP 94-3007E : WA'S C63037,  
Address C63038, C63039, C53507, C53509, C53510  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co. Type Code Symbol Stamp None  
Name  
Two North Ninth St., Allentown, PA 18101 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H2010	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H2011	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H20	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H2015	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H2013	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H23	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB123-H2012	1982	REPLACED	NO
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPGGB124-1	1982	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGGB124-H4	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGGB124-H1	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGGB124-H2	1982	REPLACED	NO











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

1. Owner     Pennsylvania Power & Light Co.      
Name  
    Two North Ninth St., Allentown, PA 18101      
Address

Date     JUNE 29, 1998    

Sheet     7     of     22    

2. Plant     Susquehanna Steam Electric Station      
Name  
    PO Box 467, Berwick, PA 18603      
Address

Unit     ONE    

    DCP 94-3007E : WA'S C63037,  
 C63038, C63039, C53507, C53509, C53510      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by     Pennsylvania Power & Light Co.      
Name  
    Two North Ninth St., Allentown, PA 18101      
Address

Type Code Symbol Stamp     None    

Authorization No.     N/A    

Expiration Date     N/A    

4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code     III     19     71     Edition,     thru W72     Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19     89    

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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2" GATE VALVE	BORG WARNER	26466	N/A	HV-E32-1F003F	1978	REPLACED	YES
1" GLOBE VALVE	YARWAY	A0515	N/A	E32-1F015F	1977	REPLACED	YES
1" GLOBE VALVE	YARWAY	A1311	N/A	E32-1F016F	1977	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H16	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H17	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H18	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H2014	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H2013	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H2010	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H2011	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H19	1982	REPLACED	NO

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date JUNE 29, 1998  
 Sheet 8 of 22

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit ONE  
 DCP 94-3007E : WA'S C63037,  
 C63038, C63039, C53507, C53510  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H2012	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H20	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H2007	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H2008	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H21	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB124-H2009	1982	REPLACED	NO
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPGBB125-1	1982	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB125-H5	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB125-H1	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB125-H2	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB125-H3	1982	REPLACED	NO



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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date JUNE 29, 1998  
 Sheet 9 of 22

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit ONE  
 DCP 94-3007E : WA'S C63037,  
 C63038, C63039, C53507, C53509, C53510  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

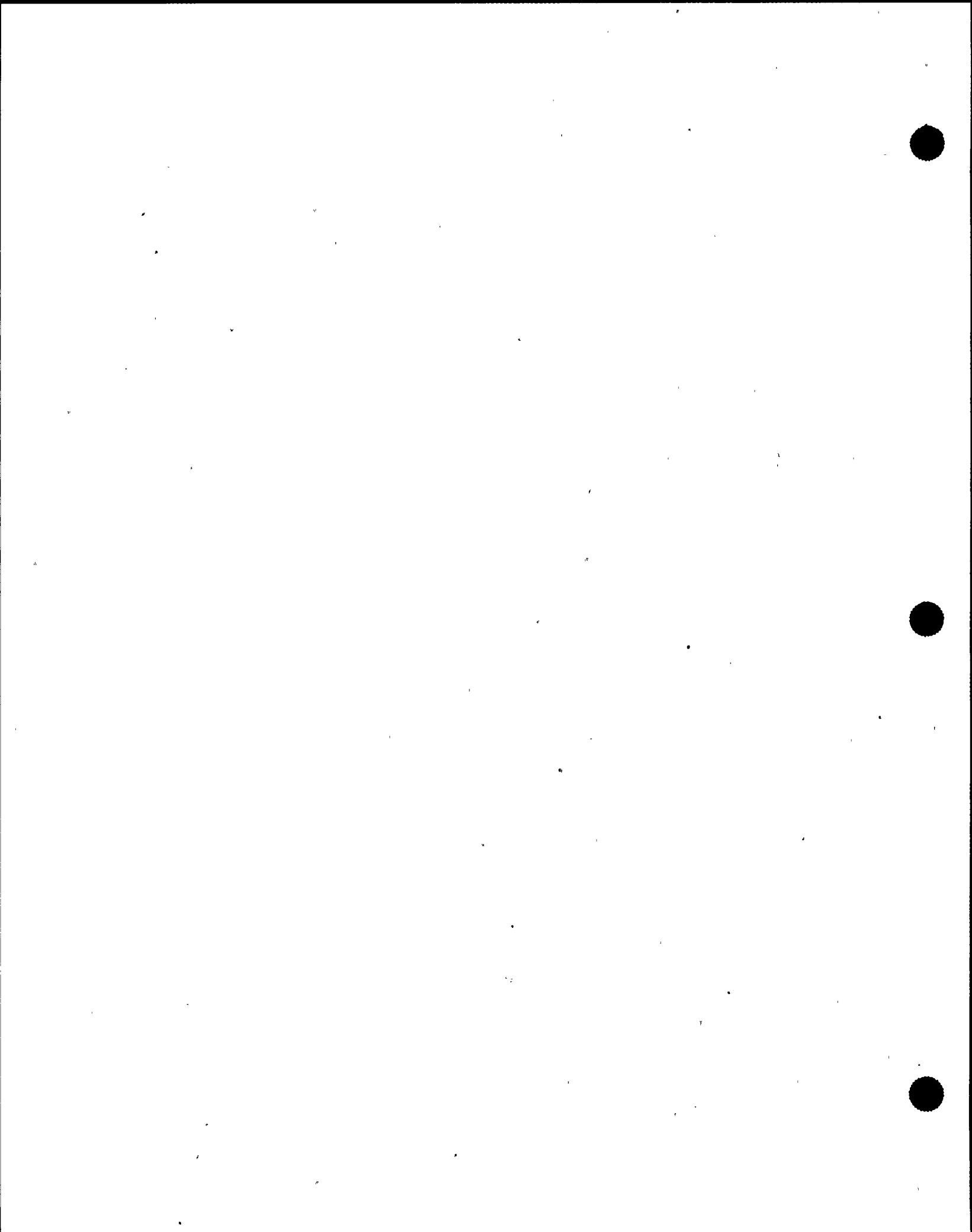
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPGBB126-1	1982	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB126-H2000	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB126-H2001	1982	REPLACED	NO
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPDBB125-2	1982	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H18	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2010	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2022	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H5	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H6	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2009	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H7	1982	REPLACED	NO









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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date JUNE 29, 1998

Sheet 11 of 22

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit ONE

DCP 94-3007E : WA'S C63037,  
C63038, C63039, C53507, C53509, C53510  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None

Authorization No. N/A

Expiration Date N/A

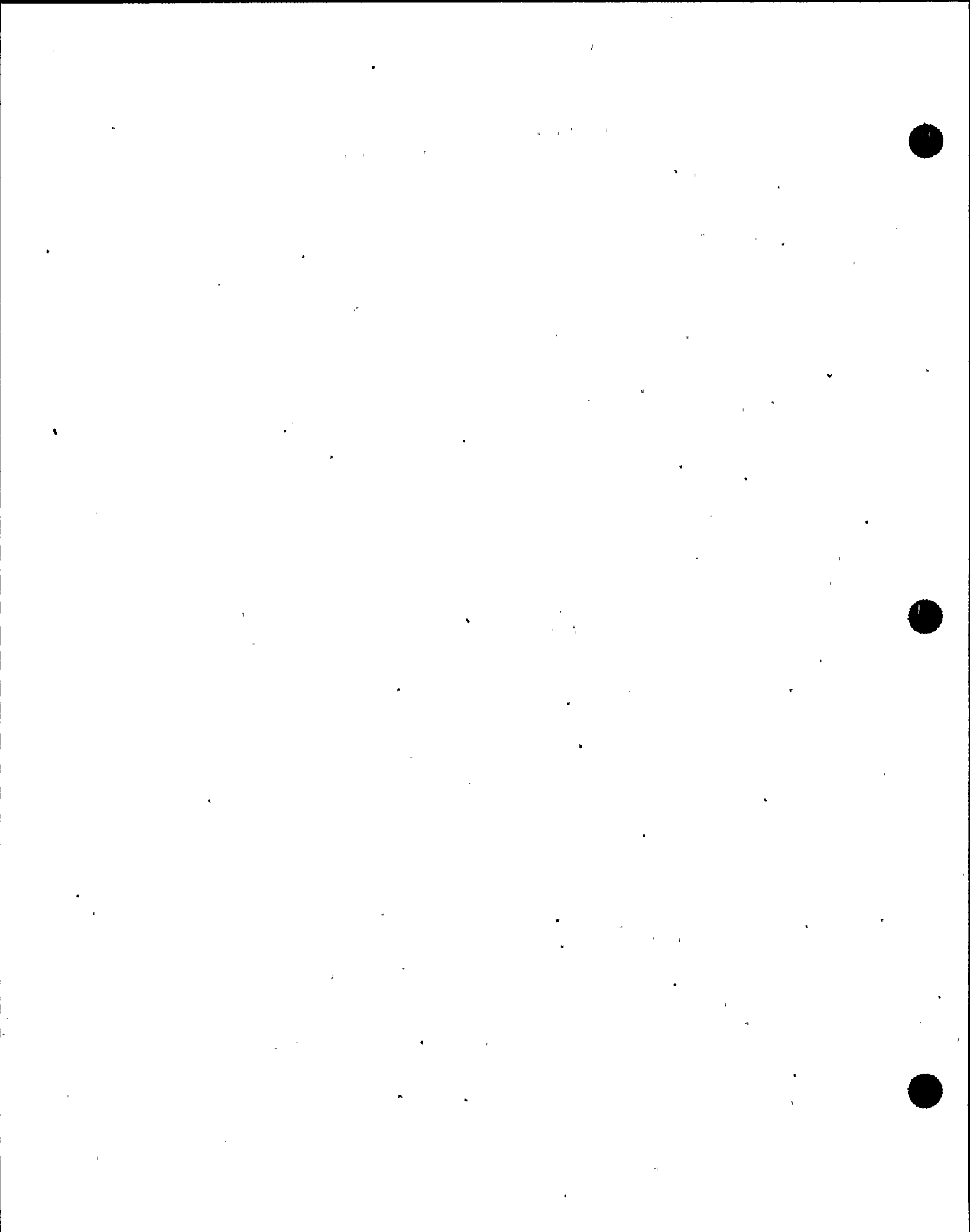
4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

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

1" GLOBE VALVE	YARWAY	A0332	N/A	E32-1F015K	1977	REPLACED	YES
1" GLOBE VALVE	YARWAY	A0505	N/A	E32-1F016K	1977	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H12	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H13	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H14	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2012	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2023	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2013	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2014	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H16	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H15	1982	REPLACED	NO



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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     JUNE 29, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     12                     of                     22                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     ONE                      
Name  
                    PO Box 467, Berwick, PA 18603                                         DCP 94-3007E : WA'S C63037,                      
Address                     C63038, C63039, C53507, C53509, C53510                      
Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     None                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

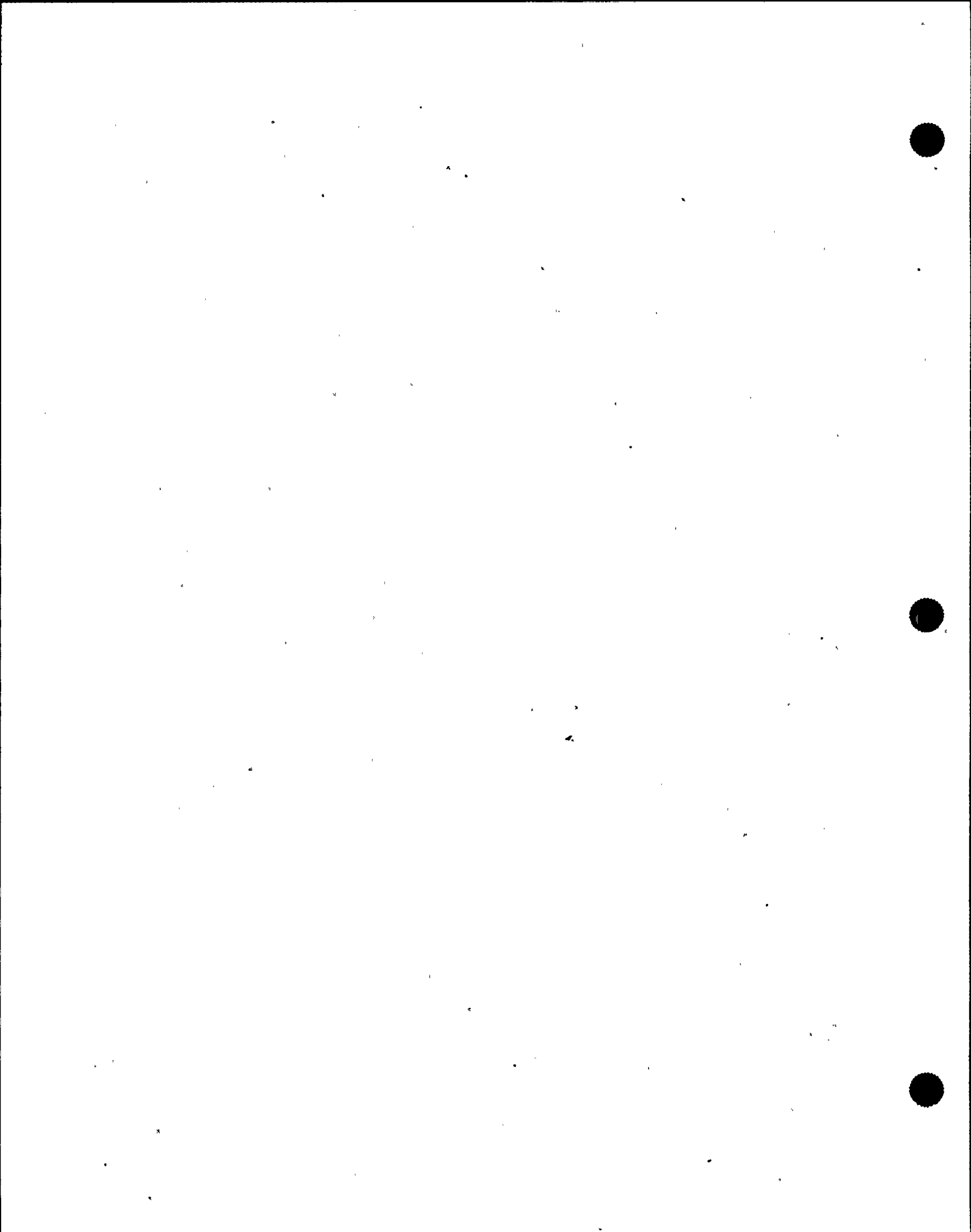
## 4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code                     III                     19                     71                     Edition,                     thru W72                     Addenda,    Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                    

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

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

SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2015	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2016	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2018	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2021	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H17	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB125-H2017	1982	REPLACED	NO
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPGGB127-1	1982	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGGB127-H2002	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGGB127-H5	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGGB127-H2000	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGGB127-H1	1982	REPLACED	NO







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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date JUNE 29, 1998  
Sheet 14 of 22

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit ONE  
DCP 94-3007E : WA'S C63037,  
C63038, C63039, C53507, C53509, C53510  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None  
Authorization No. N/A  
Expiration Date N/A

4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H7	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H2003	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H2002	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H8	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H9	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H10	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H20	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H2001	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H2004	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H11	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H2000	1982	REPLACED	NO

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

1. Owner <u>          Pennsylvania Power &amp; Light Co.          </u> <small style="margin-left: 100px;">Name</small> <u>          Two North Ninth St., Allentown, PA 18101          </u> <small style="margin-left: 100px;">Address</small>	Date <u>          JUNE 29, 1998          </u>  Sheet <u>          15          </u> of <u>          22          </u>
2. Plant <u>          Susquehanna Steam Electric Station          </u> <small style="margin-left: 100px;">Name</small> <u>          PO Box 467, Berwick, PA 18603          </u> <small style="margin-left: 100px;">Address</small>	Unit <u>          ONE          </u>  DCP 94-3007E : WA'S C63037, C63038, C63039, C53507, C53510 <small style="margin-left: 100px;">Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>          Pennsylvania Power &amp; Light Co.          </u> <small style="margin-left: 100px;">Name</small> <u>          Two North Ninth St., Allentown, PA 18101          </u> <small style="margin-left: 100px;">Address</small>	Type Code Symbol Stamp <u>          None          </u>  Authorization No. <u>          N/A          </u>  Expiration Date <u>          N/A          </u>

4. Identification of System \_\_\_\_\_
5. (a) Applicable Construction Code           III           19           71           Edition,           thru W72           Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89
6. Identification of Components Repaired or Replaced and Replacement Components

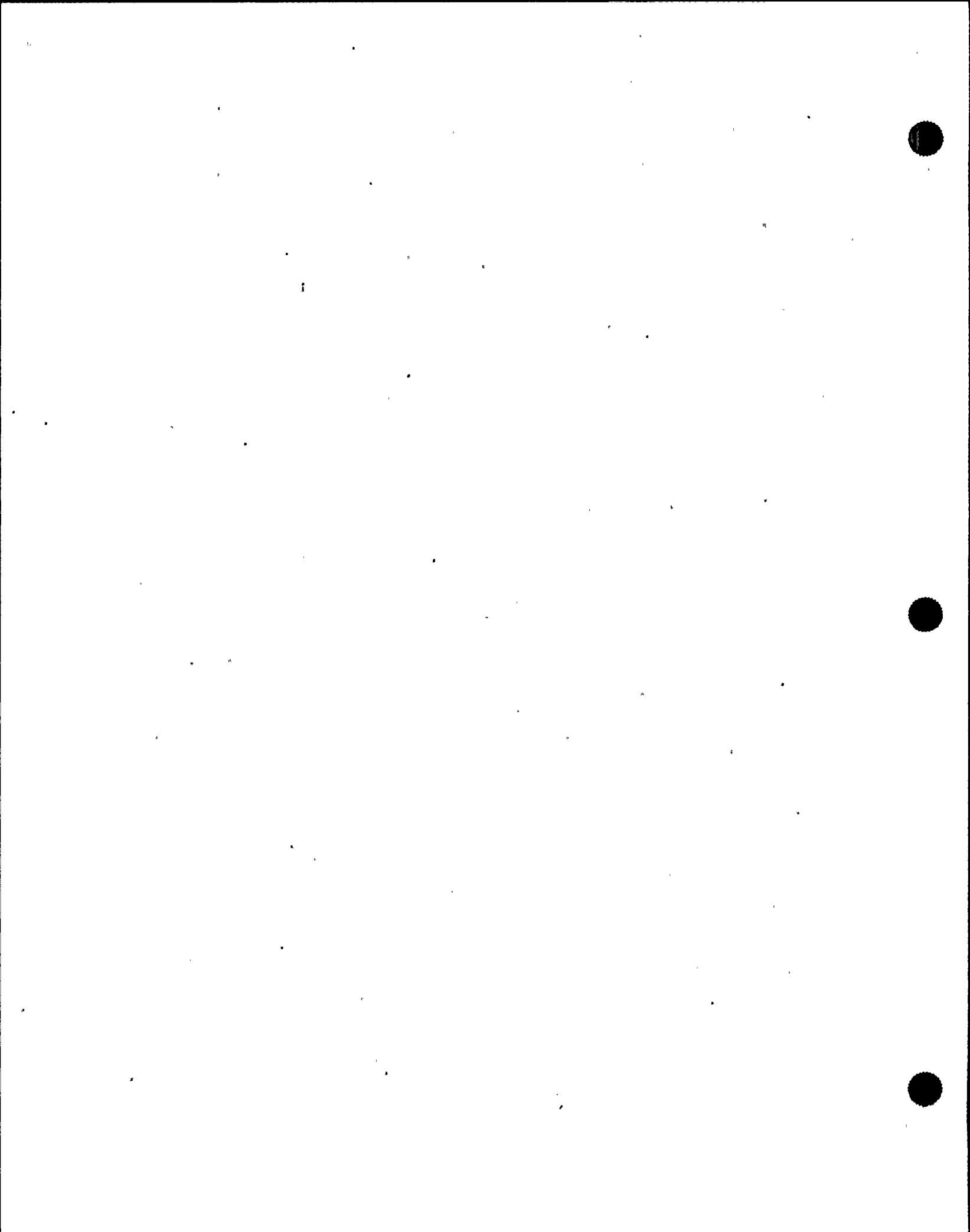
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H2005	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H12	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H13	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H2006	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H14	1982	REPLACED	NO
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPDBB126-3	1982	REPLACED	YES
2" GATE VALVE	BORG WARNER	26470	N/A	HV-E32-1F003P	1978	REPLACED	YES
1" GLOBE VALVE	YARWAY	A0287	N/A	E32-1F015P	1977	REPLACED	YES
1" GLOBE VALVE	YARWAY	A0511	N/A	E32-1F016P	1977	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H15	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDBB126-H16	1982	REPLACED	NO









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

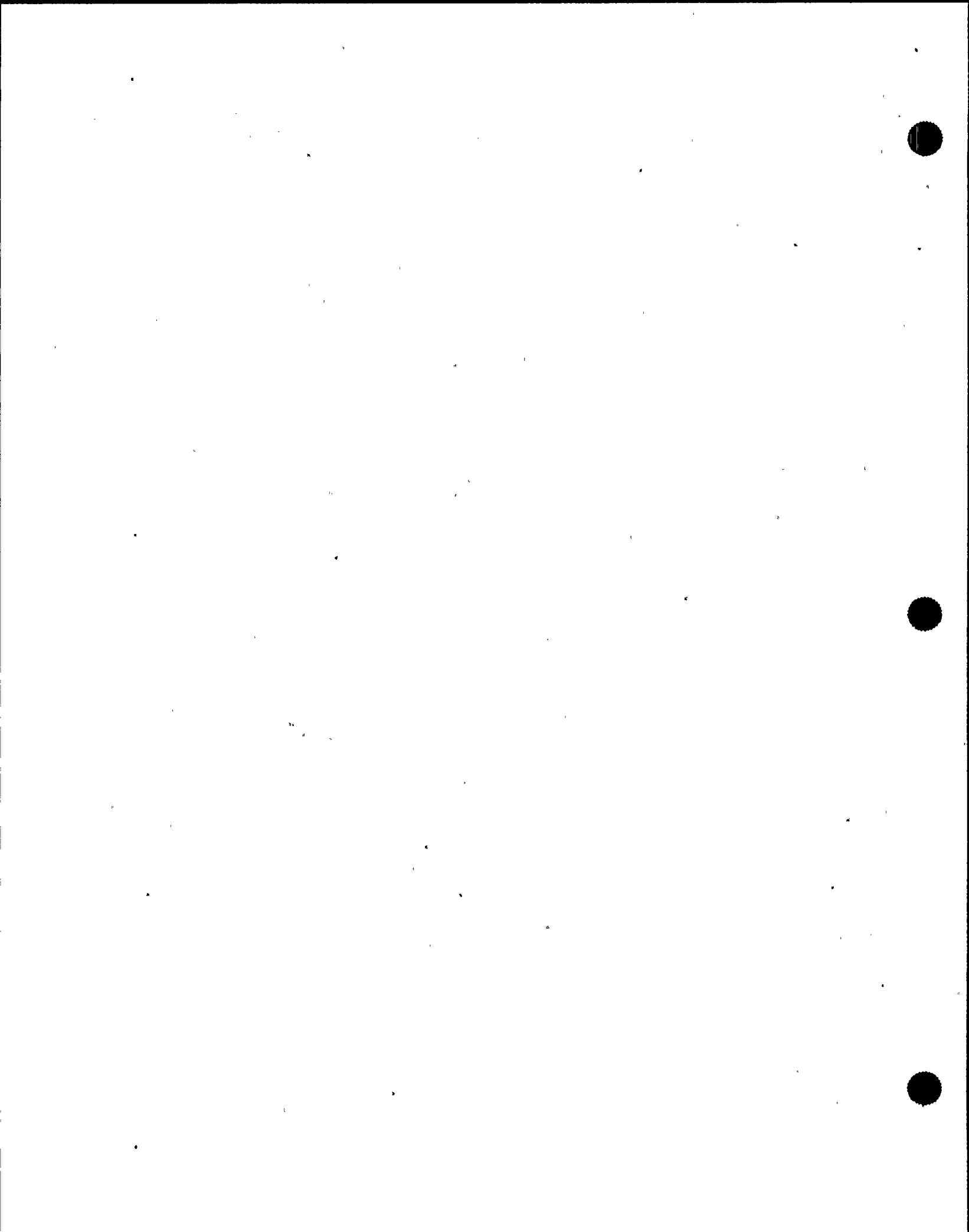
1. Owner <u>          Pennsylvania Power &amp; Light Co.          </u> <small style="margin-left: 100px;">Name</small> <u>          Two North Ninth St., Allentown, PA 18101          </u> <small style="margin-left: 100px;">Address</small>	Date <u>          JUNE 29, 1998          </u> Sheet <u>          18          </u> of <u>          22          </u>
2. Plant <u>          Susquehanna Steam Electric Station          </u> <small style="margin-left: 100px;">Name</small> <u>          PO Box 467, Berwick, PA 18603          </u> <small style="margin-left: 100px;">Address</small>	Unit <u>          ONE          </u> DCP 94-3007E : WA'S C63037, <u>          C63038, C63039, C53507, C53509, C53510          </u> <small style="margin-left: 100px;">Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>          Pennsylvania Power &amp; Light Co.          </u> <small style="margin-left: 100px;">Name</small> <u>          Two North Ninth St., Allentown, PA 18101          </u> <small style="margin-left: 100px;">Address</small>	Type Code Symbol Stamp <u>          None          </u> Authorization No. <u>          N/A          </u> Expiration Date <u>          N/A          </u>

4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code           III           19           71           Edition,           thru W72           Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H8	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H9	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H2001	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H2000	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H10	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H11	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H2002	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H12	1982	REPLACED	NO
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPGBB133-2	1982	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB133-H6	1982	REPLACED	NO
LARGE PIPE ASSEMBLY	BECHTEL	N/A	N/A	GBB131-1	1982	REPLACED	YES





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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date JUNE 29, 1998  
 Sheet 19 of 22

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit ONE  
 DCP 94-3007E : WA'S C63037,  
 C63038, C63039, C53507, C53509, C53510  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp None  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System \_\_\_\_\_

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements, 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

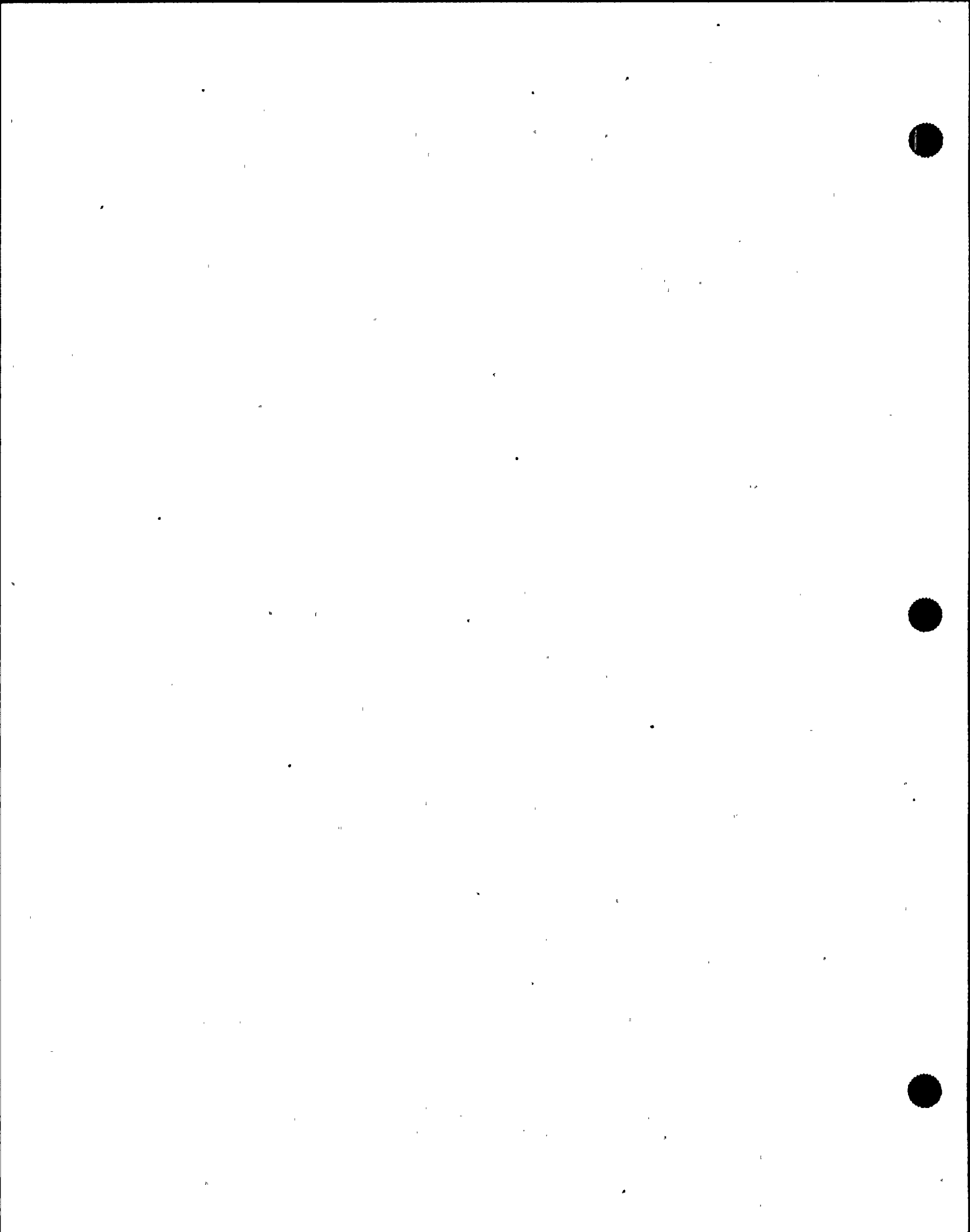
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
-------------------	----------------------	-------------------------	--------------------	----------------------	------------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

LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	GBB131-H1	1982	REPLACED	NO
LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	GBB131-H2	1982	REPLACED	NO
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPGBB131-1	1982	REPLACED	YES
1" GLOBE VALVE	YARWAY	A0485	N/A	1-39-003	1977	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB131-H2005	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB131-H2006	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB131-H2007	1982	REPLACED	NO
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB131-H1000	1982	REPLACED	NO
SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPHCB141-1	1982	REPLACED	YES
1" CHECK VALVE	CONTROMATIC	84632-1-1	N/A	1F010	1976	REPLACED	YES
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHCB141-H2000	1982	REPLACED	NO



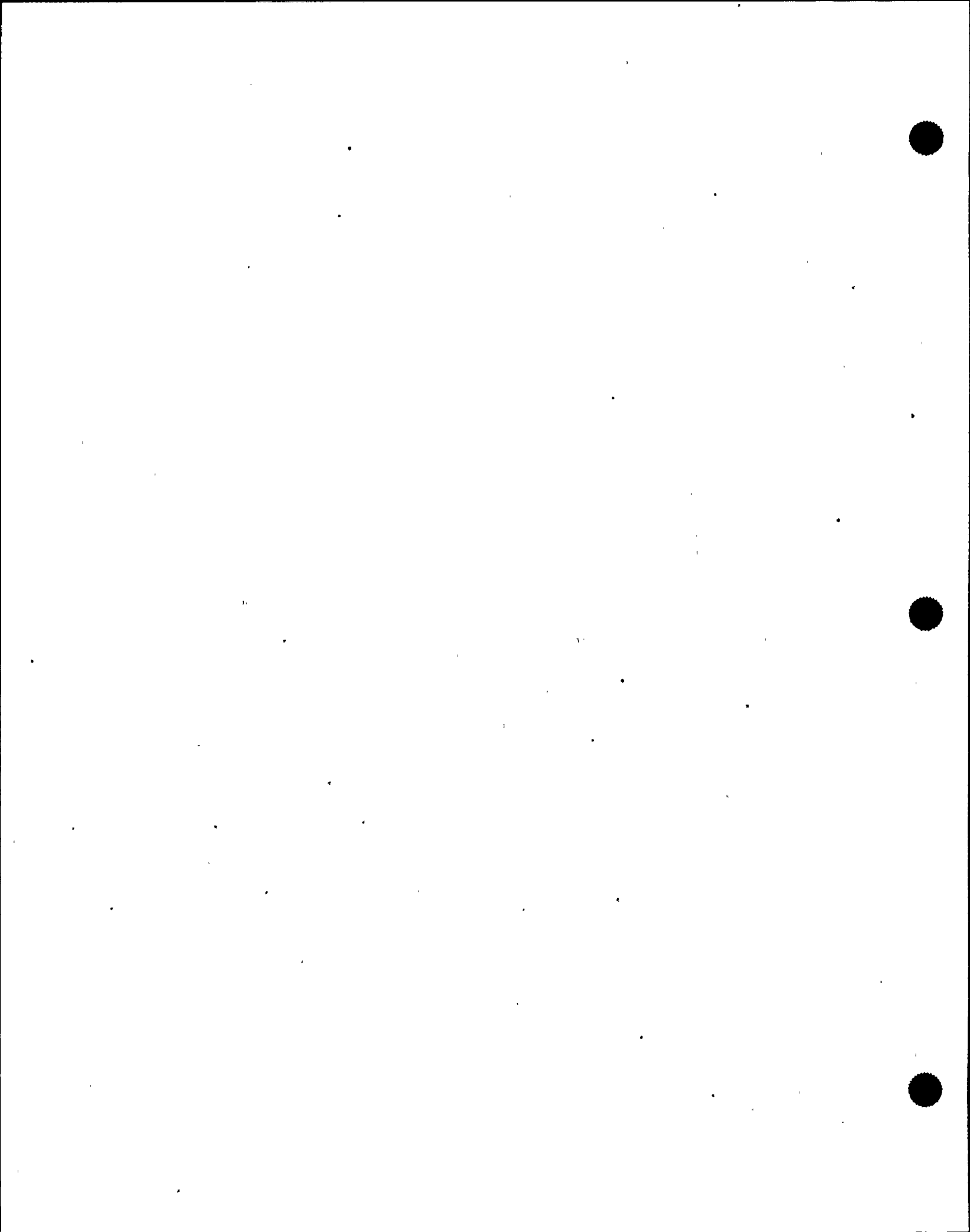






# APPENDIX D.3

SNUBBER REPLACEMENT NIS-2 Forms



# ISI SNUBBER REPAIR AND REPLACEMENT SUMMARY

## 1.0 INTRODUCTION

This summary identifies the work performed on ASME Section XI Snubbers (Classes 1, 2 and 3 Safety Related Snubbers and parts for replacements for which ISI has NIS-2 responsibility). This work was performed during the Unit 1 10th Refueling and Inspection Outage.

## 2.0 CODE COMPLIANCE SUMMARY

All work on ASME Section XI items meet the requirements of IWA-7000 (Replacement of ASME Section XI 1989 Edition, no Addenda.

## 3.0 REPLACEMENT SUMMARY

Work in this area consists of Work Authorizations for Section XI replacements of snubbers and parts.

- 3.A Summary of replacements for snubbers, by system, Work Authorization Number and Support Number (see Attachment 3.A).
- 3.B Summary of replacement of snubber parts by system, Work Authorization Number, Support Number, and Replaced Parts (See Attachment 3.B).

NOTE: No repairs during the Unit 1 10th RFO.



SNUBBERS REPLACED

SYSTEM	WORK AUTHORIZATION	SUPPORT IDENTIFICATION
149G-I	Y70028	SPDCA 110H 2008
162A-I	H70295	MST 22H 24
162A-I	Y70010	MST 22H 42A
164B-I	Y70017	SPDCA 102H 10A
164B-1	Y70053	SPDCA 102H 20
164D-II	Y70015	SPDCB 106H 2022
183A-II	Y70004	DBB 103H 4A
183E-III	Y70089	SPHCC 138H 2008
183F-I	Y70009	SPDCA 127H 2049
183F-I	Y70009	SPDCA 128H 2032
183F-I	Y70008	SPDCA 128H 2061

REPLACEMENT OF SNUBBER PARTS

SYSTEM	WORK AUTHORIZATION	SUPPORT IDENTIFICATION	REPLACED PARTS
162A-I	Y70026	DBA 102H 10	1 LOAD STUD, 2 HEAVY HEX NUTS
162A-I	Y70010	MST 22H 42A	1 END CAP PADDLE
162A-I	Y70010	MST 22H 42B	1 LOAD STUD, 2 HEAVY HEX NUTS
162A-I	H70295	MST 22H 50	1 END CAP NUT, 1 DUST COVER
164B-I	Y70045	RWS 100H 32	1 LOAD STUD
183A-II	Y70060	DBB 103H 7A	1 PIVOT PIN
183A-II	Y70060	DBB 104H 13A	1 PIVOT PIN
183D-III	Y70007	GBC 101H 247	1 PIVOT PIN

\*173C-II Y40333 SPHCB 122H 2005 1 Load Stud, 1 Pivot Pin, 2HH Nuts  
Amended NIS-2 Form from the Unit 1 - 8th RIO

**SNUBBER 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                     Pennsylvania Power & Light Co.                     Date                     July 15, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     1                      
Address  
 2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     Main/ WA Y70028/CODE FORM NO. 198149005  
Address Repair Organization P.O. No., Job No., etc.  
 3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address  
 Expiration Date                     N/A                    

4. Identification of System                     149G, CLASS I, RHR                    

5. (a) Applicable Construction Code                     III                     19                     71                     Edition,                     thru W72                     Addenda,                     NA                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                     No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mech Shock Arrestor	Pacific Scientific	13452	NA	SPDCA 110H 2008	1978	REPLACED	NO
Mech Shock Arrestor	Pacific Scientific	09925	NA	SPDCA 110H 2008	1980	REPLACEMENT	NO

7. Description of Work                     - Replaced existing snubber with same size, functionally tested replacement snubber.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Exempt  Pressure                      psi Test Temp.                      °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period April 14, 1998 to June 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Requist Commissions NB 7980 N, E, B, S, IS PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 7 1998



FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period April 14, 1998 to June 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

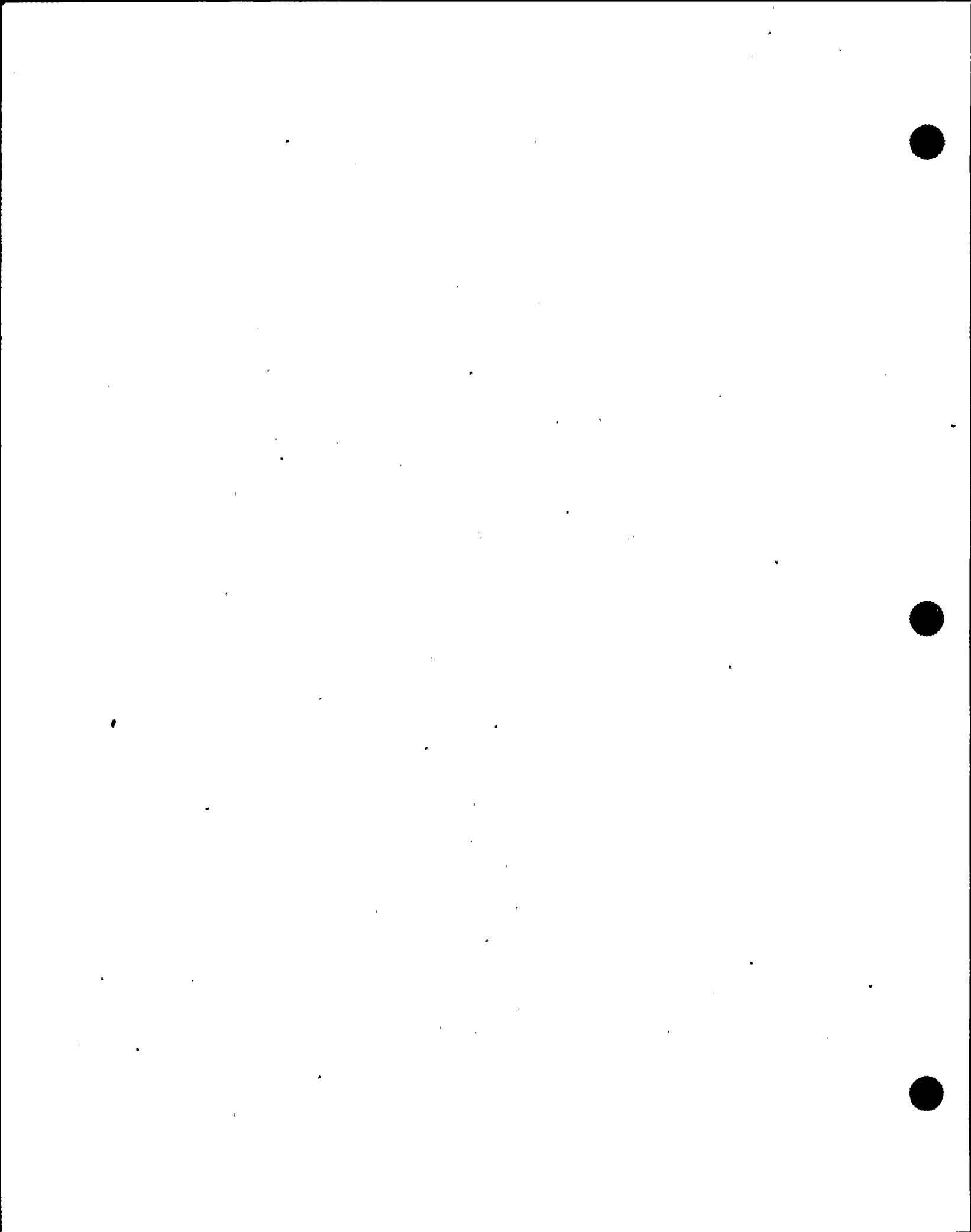
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury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

William R. Rogerson Inspector's Signature  
Factory Mutual Engineering Association  
Commissions NB7980 N.T.B.S. IS PA2209  
National Board, State, Province, and Endorsements

Date AUG. 7 1998







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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date July 15, 1998

Sheet 3 of 3

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit ONE

Maintenance/WA # See Below

Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol N/A

Authorization N/A

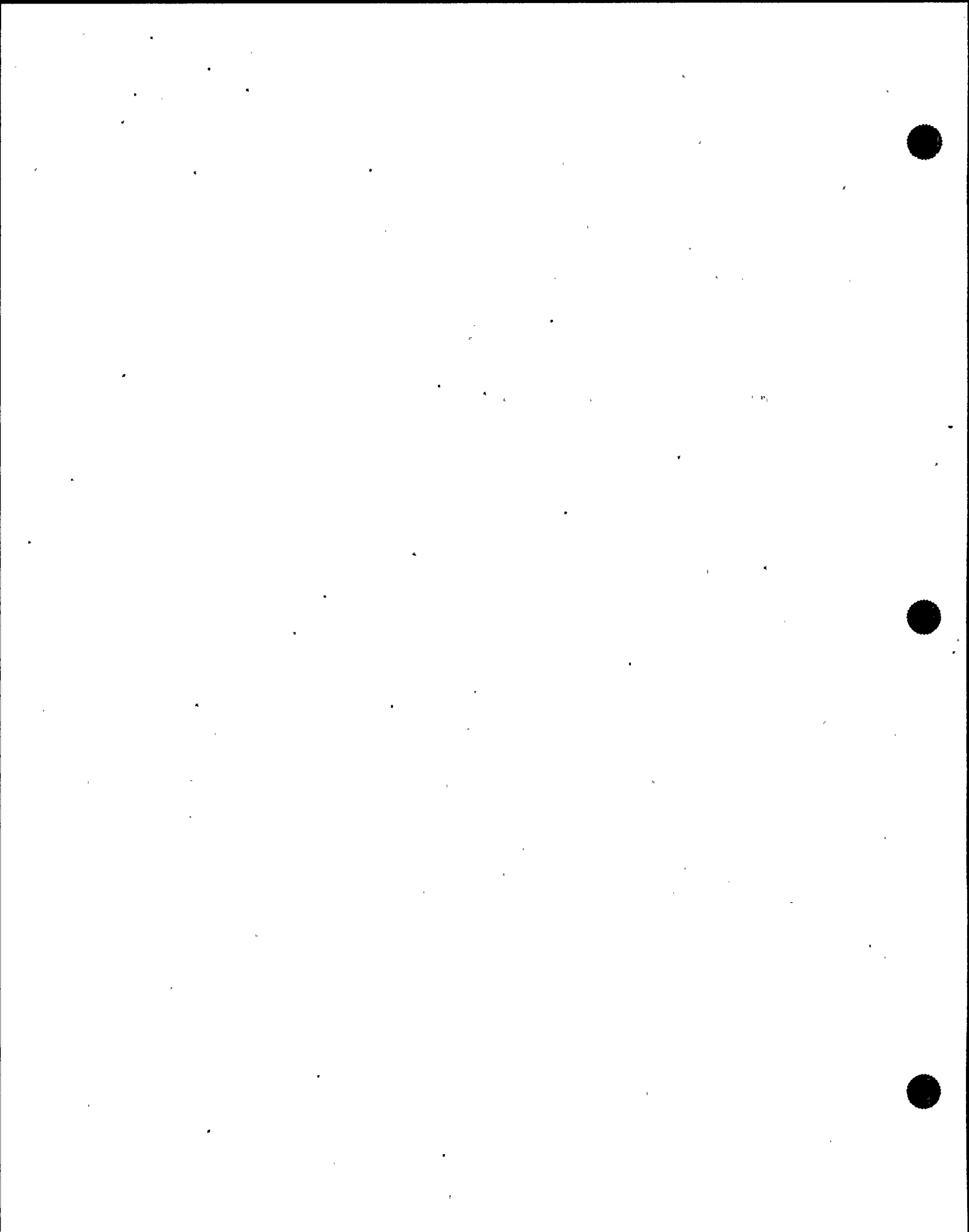
Expiration Date N/A

4. Identification of System 162A, Class I, REACTOR VESSEL

5. (a) Applicable Construction ASME III 19 71 Edition, W'72 Addenda N/A Code  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89, No Addenda.

6. Identification of Components Repaired or Replaced and Replacement Components

Item (s)	Susquehanna Work Authorization Number	Code Repair Form No.
1	Y70010	198162 010
2	H70295	198162 011
3	Y70010	198162 010
4	Y70010	198162 018
5	Y70010	198162 018
6	Y70026	198162 004
7	Y70026	198162 004
8	H70295	198162 009
9	H70295	198162 009





FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Inspector of Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

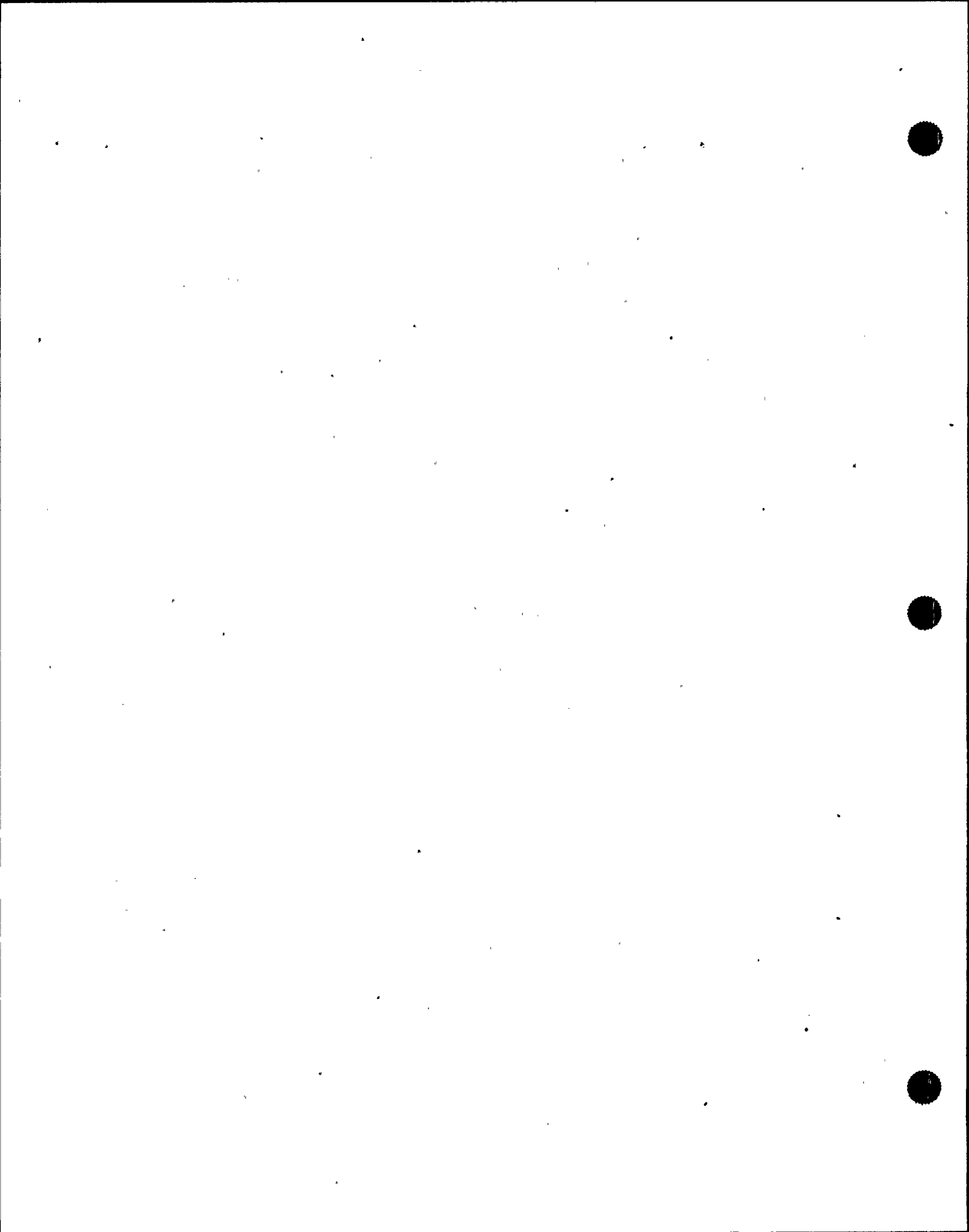
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period April 14, 1998 to June 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogers III Commissions NB 7980 N.I.B.S.I.S PA 2204  
Inspector's Signature Factory Mutual Engineering Association  
National Board, State, Province, and Endorsements

Date AUG. 7 1998





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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     July 15, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           1           of           1            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     Main/ WA Y70015/CODE FORM NO. 198164002  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address  
Expiration Date                     N/A                    

4. Identification of System                     164D, CLASS II, Recirc Pump Seal Water Injection System                    

5. (a) Applicable Construction Code           III           19   71   Edition,           thru W72           Addenda,           NA           Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89           No Addenda

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

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mech Shock Arrestor	Pacific Scientific	04725	NA	SPDCB 106H 2022	1978	REPLACED	NO
Mech Shock Arrestor	Pacific Scientific	24388	NA	SPDCA 106H 2022	1982	REPLACEMENT	NO

7. Description of Work                     Replaced existing snubber with same size, functionally tested replacement snubber.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Exempt  Pressure                      psi Test Temp.                      °F

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



FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period April 14, 1998 to June 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Roguski Commissions NB 7980 N.I.B.S.I.S PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 7 1998

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date July 15, 1998

Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

Maint/ WA  
See Sheet 2 of 2  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System 183A CLASS II, MAIN STEAM LINES

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, NA Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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ITEM#1

Mech Shock Arrestor	Pacific Scientific	00954	NA	DBB 103H 4A	1977	REPLACED	NO
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ITEM#2

Mech Shock Arrestor	Pacific Scientific	14765	NA	DBB 103H 4A	1983	REPLACEMENT	NO
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1 Pivot Pin	GRINNELL	ITEM#6 *(1)	NA	DBB 104H 13A	*(1)	REPLACED	NO
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1 Pivot Pin	GRINNELL	ITEM#6 *(1)	NA	DBB 104H 13A	*(1)	REPLACEMENT	NO
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ITEM#3

1 Pivot Pin	GRINNELL	ITEM#6 *(1)	NA	DBB 103H 7A	*(1)	REPLACED	NO
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1 Pivot Pin	GRINNELL	ITEM#6 *(1)	NA	DBB 103H 7A	*(1)	REPLACEMENT	NO
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\*NOTE(1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE

7. Description of Work Replc'd existing snub with same size, tested replcmnt snub/replc'd parts with apprv'd parts.

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

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Chief or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

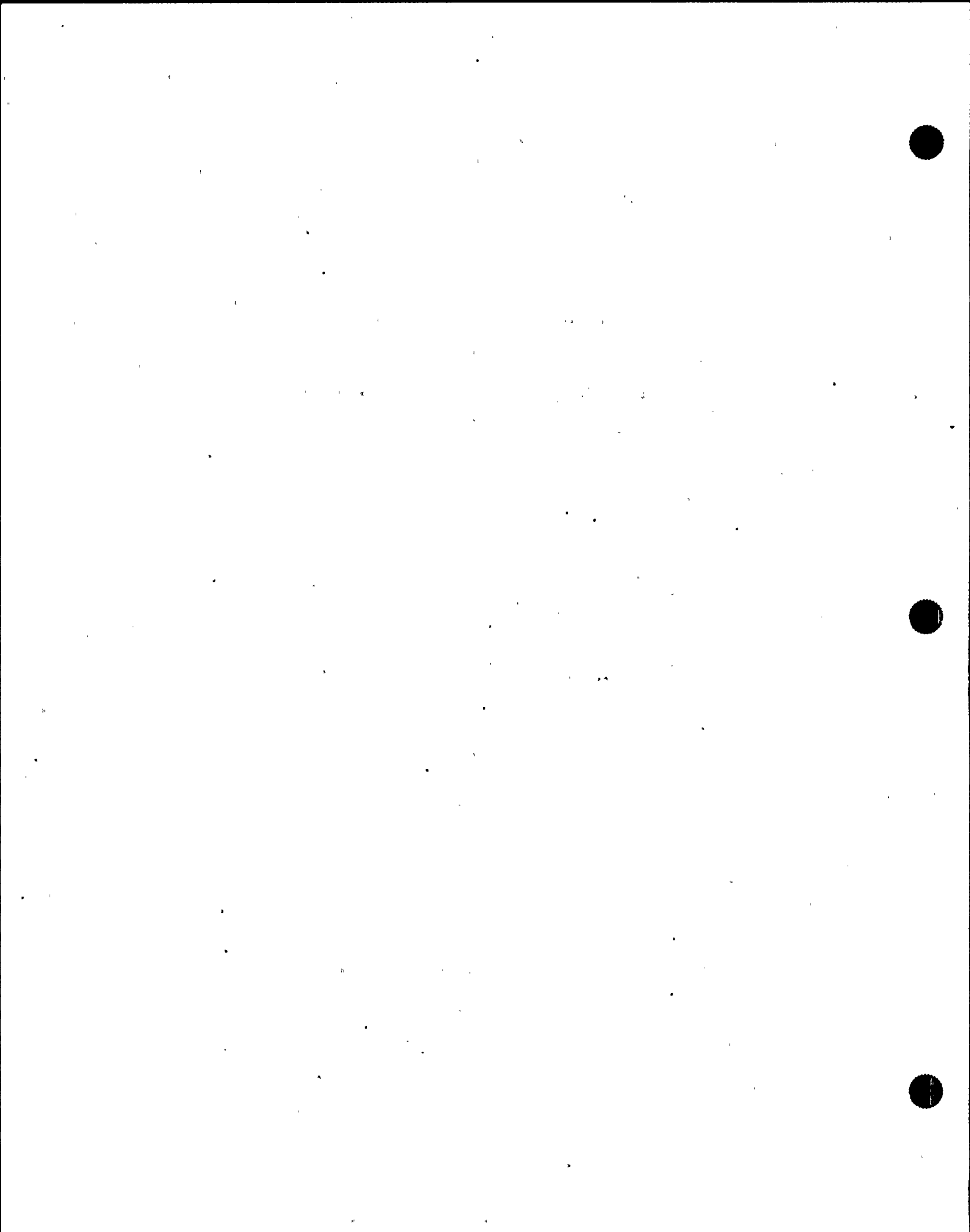
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period April 14, 1998 to June 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pogue III Commissions NB 7980 N.I.B.S.I.S PA 2204  
Inspector's Signature Factory Mutual Engineering Association  
National Board, State, Province, and Endorsements

Date AUG. 7 1998





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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     July 15, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet           1           of           1            
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                                         Main/ WA Y70089/CODE FORM NO. I98183017                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address Expiration Date                     N/A                    

4. Identification of System                     183E, CLASS III, ADS AUTOMATIC DEPRESSURIZATION SYSTEM                    

5. (a) Applicable Construction Code           III           19           71           Edition,           thru W72           Addenda,           NA           Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19           89          

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Mech Shock Arrestor	Pacific Scientific	23570	NA	SPHCC 138H 2008	NONE	REPLACED	NO
Mech Shock Arrestor	Pacific Scientific	24370	NA	SPHCC 138H 2008	1982	REPLACEMENT	NO

7. Description of Work                     Replaced existing snubber with same size, functionally tested replacement snubber.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Exempt  Pressure                      psi Test Temp.                      °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title      Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period April 14, 1998 to June 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Reguette Commissions NB 7980 N.I.B.S.I.S. PA2204  
Inspector's Signature Factory Mutual Engineering Association  
National Board, State, Province, and Endorsements

Date AUG. 7 1998

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

1. Owner Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Date July 15, 1998

Sheet 1 of 1

2. Plant Susquehanna Steam Electric Station  
Name  
PO Box 467, Berwick, PA 18603  
Address

Unit One

Maint/WA Y70007/CODE FORM NO. 198183008

Repair Organization P.O. No., Job No., etc.

3. Work Performed by Pennsylvania Power & Light Co.  
Name  
Two North Ninth St., Allentown, PA 18101  
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System 183D, CLASS III, MSRV Relief Safety System

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1 Pivot Pin	GRINNELL	ITEM#6*(1)	NA	GBC 101H 247	*(1)	REPLACED	NO
1 Pivot Pin	GRINNELL	ITEM#6*(1)	NA	GBC 101H 247	*(1)	REPLACEMENT	NO

\*NOTE (1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE

7. Description of Work Replaced existing part with sufficient replacement part

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Exempt  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

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period April 14, 1998 to June 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Rogus III Commissions NB 7980 N, I, B, S, IS PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date AUG. 7 1998

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

1. Owner                     Pennsylvania Power & Light Co.                     Date                     July 15, 1998                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Sheet                     1                     of                     2                      
Address

2. Plant                     Susquehanna Steam Electric Station                     Unit                     One                      
Name  
                    PO Box 467, Berwick, PA 18603                     Maint/ WA                     See Sheet 2 of 2                      
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by                     Pennsylvania Power & Light Co.                     Type Code Symbol Stamp                     N/A                      
Name  
                    Two North Ninth St., Allentown, PA 18101                     Authorization No.                     N/A                      
Address  
 Expiration Date                     N/A                    

4. Identification of System                     183F, CLASS I, STEAM FLOW MONITORS                    

5. (a) Applicable Construction Code                     III                     19                     71                     Edition,                     thru W72                     Addenda,                     NA                     Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19                     89                     No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
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ITEM#1

Mech Shock Arrestor	Pacific Scientific	13931	NA	SPDCA 128H 2061	1981	REPLACED	NO
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ITEM#2

Mech Shock Arrestor	Pacific Scientific	12977	NA	SPDCA 128H 2061	1981	REPLACEMENT	NO
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ITEM#3

Mech Shock Arrestor	Pacific Scientific	09722	NA	SPDCA 128H 2032	1979	REPLACED	NO
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Mech Shock Arrestor	Pacific Scientific	16382	NA	SPDCA 128H 2032	1980	REPLACEMENT	NO
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Mech Shock Arrestor	Pacific Scientific	04064	NA	SPDCA 127H 2049	1978	REPLACED	NO
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Mech Shock Arrestor	Pacific Scientific	23356	NA	SPDCA 127H 2049	1981	REPLACEMENT	NO
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7. Description of Work                     Replaced existing snubber with same size, functionally tested replacement snubber.                    

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Exempt  Pressure                      psi Test Temp.                      °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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 N/A

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

Signed [Signature] Date Aug 6, 19 98  
Owner or Owner's Designee, Title Supv. - Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

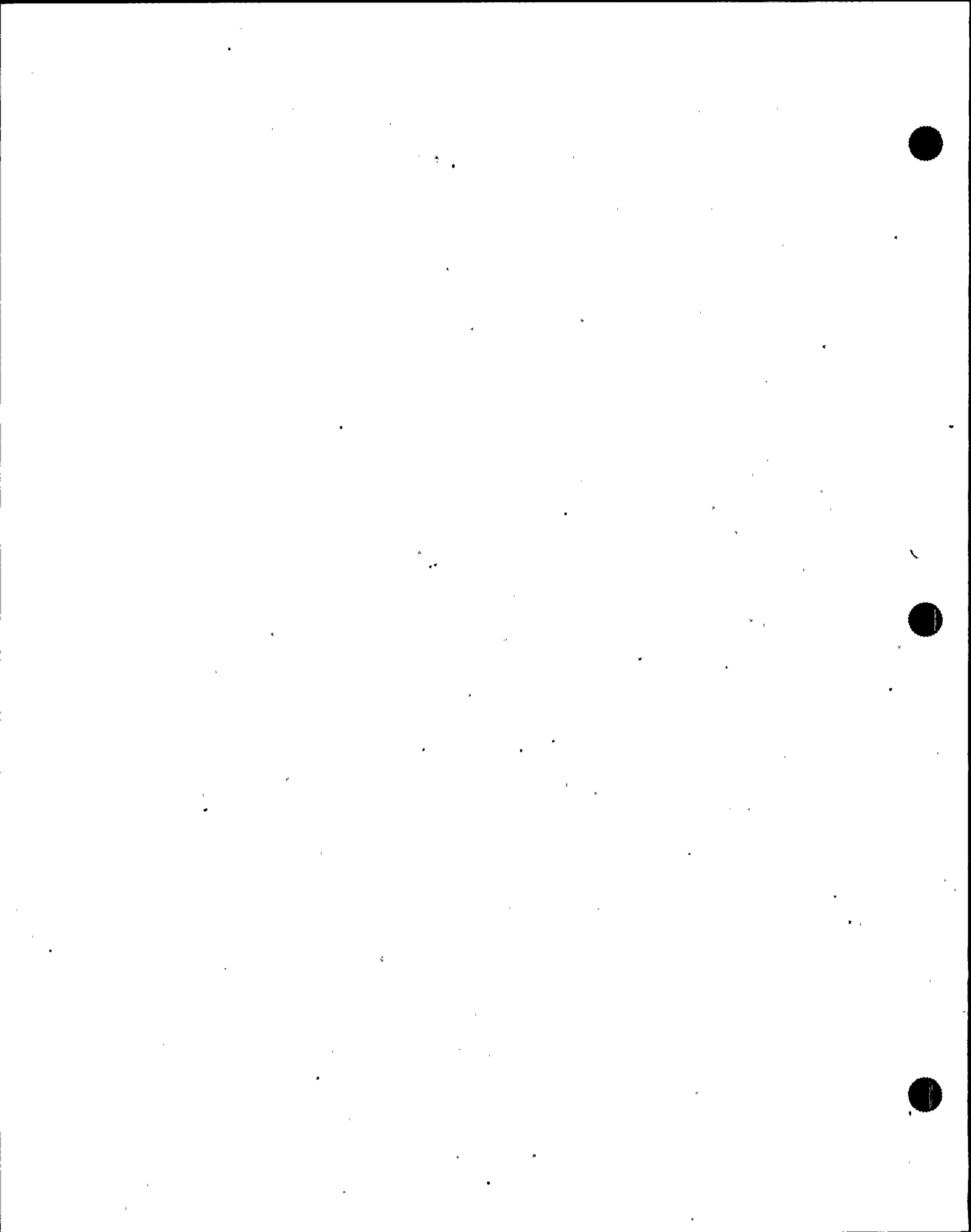
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. of NORWOOD, MASSACHUSETTS have inspected the components described in this Owner's Report during the period April 14, 1998 to June 5, 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

William R. Pagnotta Commissions NB 7980 N, I, B, S, IS PA2204  
Inspector's Signature Factory Mutual Engineering Association National Board, State, Province, and Endorsements

Date AUG. 7 1998





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

1. Owner Pennsylvania Power & Light Co. Date 05/18/95  
Name  
Two North Ninth St., Allentown, PA 18101  
Address
2. Plant Susquehanna Steam Electric Station Unit 1  
Name  
PO Box 467, Berwick, PA 18603  
Address  
 Maintenance/WA # Y40333  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Owner Type Code Symbol N/A  
Name  
Address Authorization N/A  
 Expiration Date N/A
4. Identification of System 1-73C, Class II, Containment Atmosphere Control System
5. (a) Applicable Construction Code ASME III 19 71 Edition, W'72 Addenda N/A Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 '89 No Add.
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)
1 Load Stud	Grinnell	Item # 13*(1)	N/A	SPHCB122H2005	*(1)	REPLACED	NO
1 Load Stud	Grinnell	Item # 13*(1)	N/A	SPHCB122H2005	*(1)	REPLACEMENT	NO
1 Pivot Pin	Grinnell	Item # 6*(1)	N/A	SPHCB122H2005	*(1)	REPLACED	NO
1 Pivot Pin	Grinnell	Item # 6*(1)	N/A	SPHCB122H2005	*(1)	REPLACEMENT	NO
2 Heavy Hex Nuts	Grinnell	Item # 14*(1)	N/A	SPHCB122H2005	*(1)	REPLACED	NO
2 Heavy Hex Nuts	Grinnell	Item # 14*(1)	N/A	SPHCB122H2005	*(1)	REPLACEMENT	NO

\*NOTE (1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

7. Description of Work Replaced parts with sufficient replacement parts.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Exempt  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

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

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION 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

N/A

Certificate of Authorization No.

N/A

Expiration Date

N/A

Signed

*[Signature]*

Date

June 28

. 19 95

Owner or Owner's Designee, Title V.P. - NUCLEAR OPERATIONS

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding 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 03/25/95 to 05/06/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

FACTORY MUTUAL ENG ASSOC.

*William R. Rogers III*  
Inspector's Signature

Commissions NB7980 N.I.B.S.I.S PA2204  
National Board, State, Province, and Endorsements

Date: Nov. 10, 1997

ORIGINALLY SIGNED 6-30-95 BY C.W. MELLON, WRR 11-10-97

# APPENDIX E

## EROSION/CORROSION SCOPE OF EXAMINATIONS



## EROSION/CORROSION EXAMS -- REPORT2

REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE -----	ELEV ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- ISI ISO -----	MAP NO. -----
							EWRNUM	MEAS MIN	ACTIVITY NO	
							EXM SCH	OUT DTE	WA NO	
DBD1011-E2 RFP A EXIT Z1-TEMP	90 ELBOW	X-44 18	678 22'EK-6'S18	FW T-128	10 17.49	TB B	0	1.375 1.049	DBD-101-1 D.29	K154 K0154-01
							X-RIO10	RESP98		
DBD1014-E2 RFP C EXIT Z1-TEMP	90 ELBOW	X-62 18	678 7'S22-4'WL	FW T-128	11 31.6	TB B	0	1.375 1.049	DBD-101-4 D.39	K155 K0155-01
							X-RIO10	RESP98		
DBD1015-E2 RFP FE-1N001C INLET Z1-TEMP	90 ELBOW	X-65 18	740 5'N20-2'WN	FW T-422	10 34.57	TB B	0	1.375 1.049	DBD-101-5 D.39	K93 K0093-01
							X-RIO10	RESP98		
DBD1051-E7A LV-10641 OUTLET (MAIN) HAND GRID	TEE A	X-68A 16	746 9'S23-2'WN	FW T-422	11 64.5	TB B	15	1.219 .934	DBD-105-1 D.35	K153 K0153-01
							X-RIO10	RESP98		
DBD1051-E7B LV-20641 OUTLET (BRANCH)	TEE A	X-68B 4	746 9'S23-2'WN	FW T-422	11 30.61	TB B	15	.438 .292	DBD-105-1 D.35	K153 K0153-01 P60633
							X-RIO10	RESP98		
DBD1051-E8 RFP STARTUP BYPASS	ELBOW	X-54 16	754 9'S23-2'WN	FW T-422	11 65.2	TB	18	1.219 .934	DBD-105-1 D.35	K1241 K1241-01 P60653
							X-RIO10	RESP98		
DLA1021-E1A SIS: X-594A Z1-TEMP	TEE D	X-596A 24	754 312DEG AZ-23'RCL	FW R-516	26 11.6%	CONT M	0	1.219 .824	DLA-102-1 D.82	K94 K0094-01
							X-RIO10	RESP98		

## EROSION/CORROSION EXAMS -- REPORT2

REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- IS: JSO -----	MAP NO. -----
						EWRNUM	MEAS MIN	ACTIVITY NO	
						EXM SCH	OUT DTE	WA NO	
DLA1021-E1B SIS: X-594B Z3-HAND BRID	TEE D	X-596B 12	FW R-516	26 12.4	CONT M	0	.688 .459	DLA-102-1 D.82	K94 K0094-01
						X-R1010	RESP98		
DLA1021-E4A 'A' FW TO RPV Z1-TEMP	REDUCER	X-176A 20	FW R-516	-26 0	CONT M	0	1.031 .687	DLA-102-1 D.82	K97 K0097-01
						X-R1010	RESP98		
DLA1021-E4B 'A' FW TO RPV Z1-TEMP	REDUCER	X-176B 12	FW R-516	26 19.65	CONT M	0	.688 .459	DLA-102-1 D.82	K97 K0097-01
						X-R1010	RESP98		
DLA1021-E5 'A' FW TO RPV HAND GRID	90 ELBOW	X-177 12	FW R-516	26 43.67	RB M	0	.688 .459	DLA-102-1 D.82	K96 K0096-01
						X-R110	RESP98		
DLA1041-E1A SIS: X-596A HAND GRID	TEE D	X-594A 24	FW R-516	26 0	CONT M	0	1.219 .824	DLA-104-1 D.67	K98 K0098-01
						X-R1010	RESP98		
DLA1041-E1B SIS: X-596B HAND GRID	TEE D	X-594B 12	FW R-516	26 29.26	CONT M	0	.688 .459	DLA-104-1 D.67	K98 K0098-01
						X-R1010	RESP98		
DLA1041-E4A RPV INLET B HAND GRID	REDUCER	X-141A 20	FW R-516	26 33.4	RB M	0	1.031 .687	DLA-104-1 D.67	K100 K0100-01
						X-R1010	RESP98		

## EROSION/CORROSION EXAMS -- REPORT2

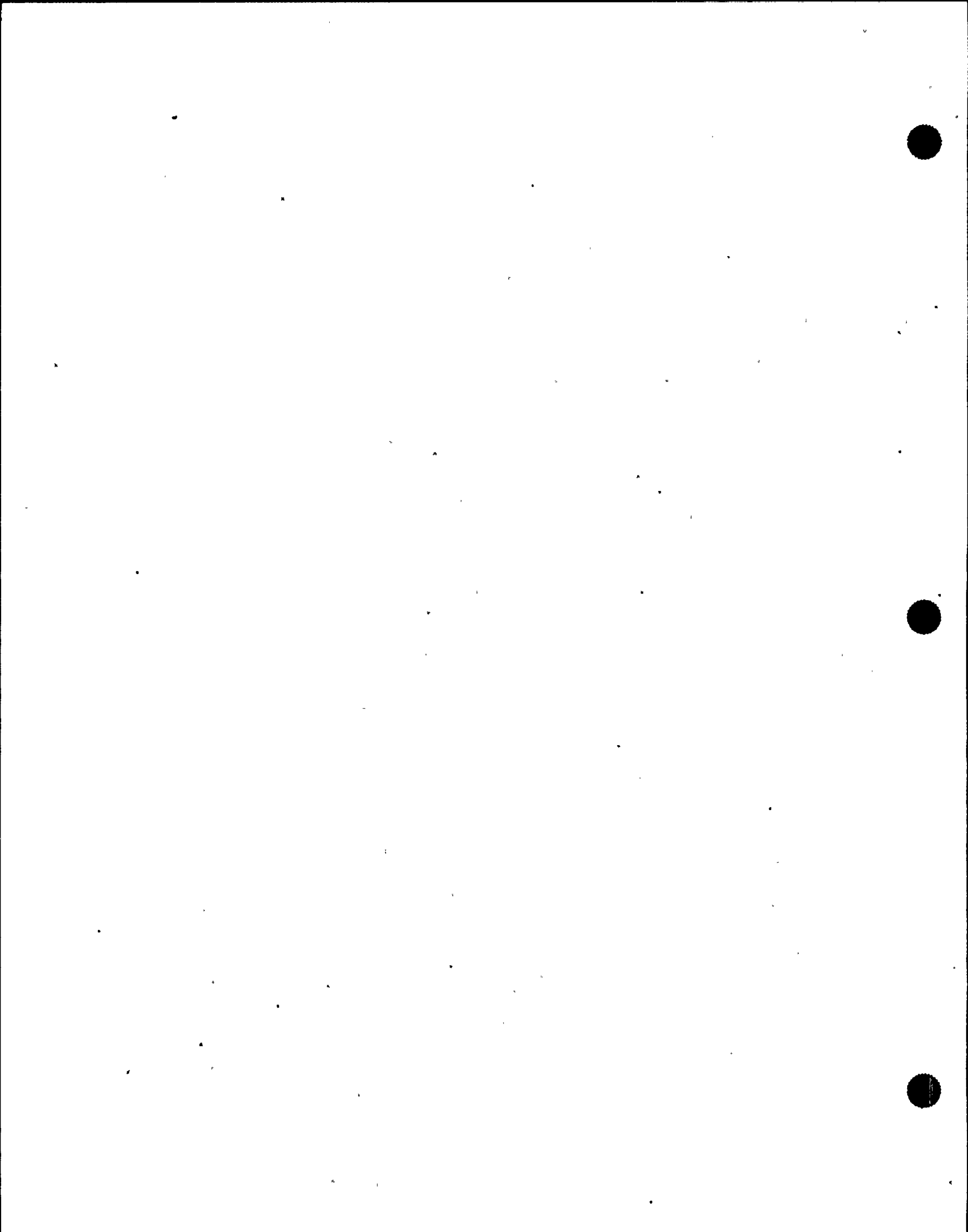
REPORT DATE: 08/21/98

COMPONENT ID	DESCRIPTION	REPLCD ID	SYSTEM	AREA	BUILD	SCAFF	NOM WALL	LINE	MAP NO.
DETAIL PLAN		SIZE	ELEV	ROOM	INSUL		MIN WALL	ISI ISO	
ACC 2 LINE		GRID				EWRNUM	MEAS MIN		ACTIVITY NO
COMMENTS						EXM SCH	OUT DTE		WA NO
DLA1041-E4B RPV INLET B HAND GRID	REDUCER	X-141B 12	754 90AZ-22RCL	FW R-516	26 34.9	RB M	0 .688 .459	DLA-104-1 D.67	K100 K0100-01 P43654
						X-RI010	RESP98		
DLA1041-E5 RPV INLET B Z1-TEMP	90 ELBOW	X-142 12	754 150DEG	FW R-516 AZ-23'RCL	26 27.95	RB M	0 .688 .459	DLA-104-1 D.67	K156 K0156-01
						X-RI010	RESP98		
ERC1041-E3  NEEDS GRATING REMOVED - HIGH RAD AREA	VALVE	X-877 4	765 18'S22-11'EQ	RWCU 501	25 16.96	RB B	0 .337 .225	EBC104-1	K1831 K1831-01
							RESP98		
EBD1141-E1	90 DEGREE ELBOW	X-697 4"	678 7'S17-0'@HB	MSDRAIN 113	2 38.1%	TB B	0 .483 .291	EBD114-2	K1815 K1815-0
							RESP98		
EBD1142-E2	90 ELBOW	X-689 4"	689 7'N24-5'WK	MSDRAIN 113	7 80.95	TB B	9 .483 .291	EBD-114-2	K1816 K1816-01
							RESP98		
EBD1143-E1A	TEE A	X-682A 4"	723 7'S23.6-9'WP	MS 411	25 6.93	WING B	0 .438 .337	EBD-114-3	K1802 K1802-01
							RESP98		
EBD1143-E1B	TEE A	X-682B 1"	723 7'S23.6-9'WP	MS 411	25 14.17	WING B	0 .358 .238	EBD-114-3	K1802 K1802-01
							RESP98		

## EROSION/CORROSION EXAMS -- REPORT2

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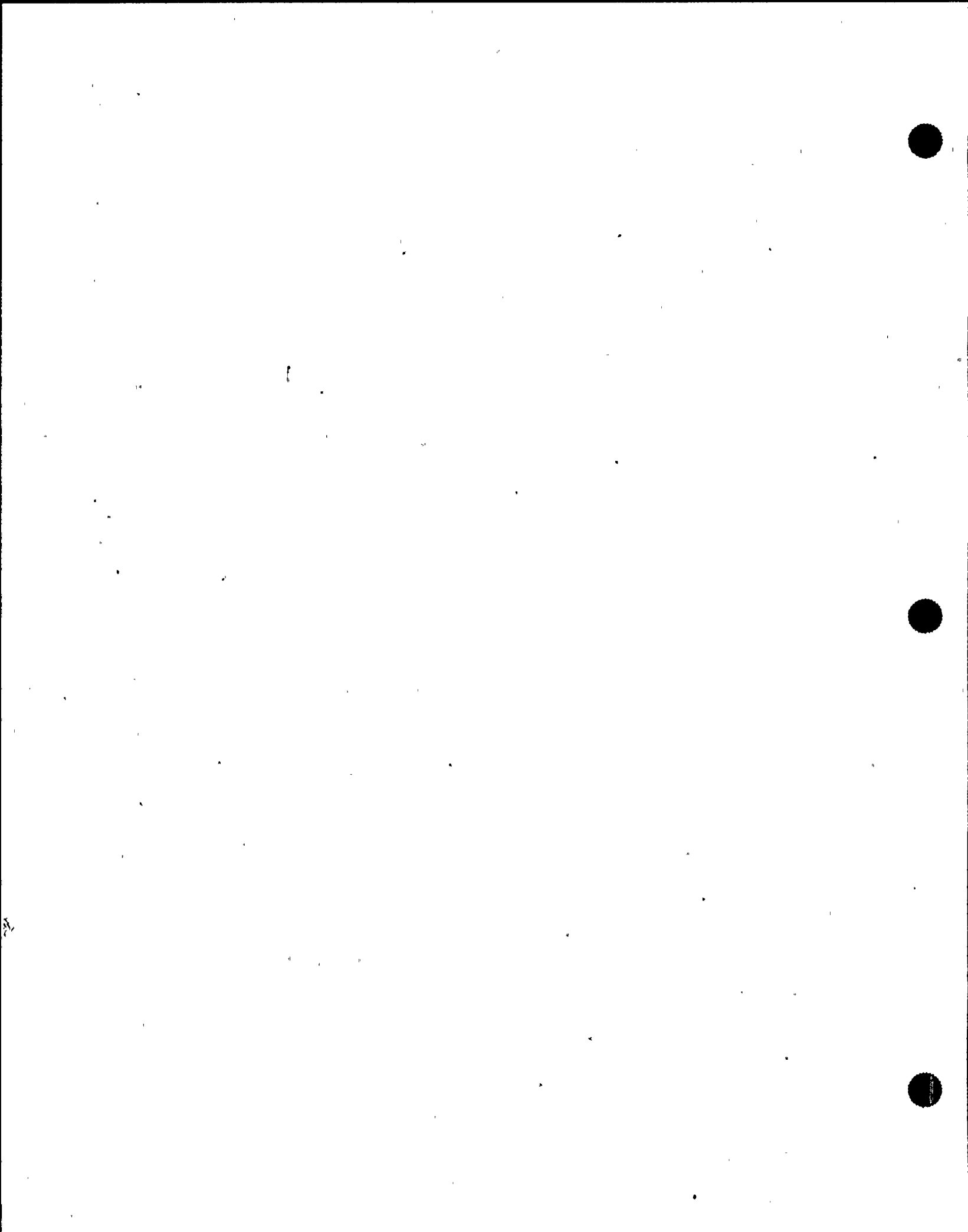
COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE -----	ELEV ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- ISI ISO -----	MAP NO. -----	ACTIVITY NO ----- WA NO -----
							EWARNUM ----- EXM SCH -----	MEAS MIN ----- OUT DTE -----			
EBD1143-E2A	TEE A	X-683A 4"	723 7'S23.6-10'WP	MS 411	25 14.85	WING B	0 0	.438 .337	EBD-114-3	K1803	K1803-01 RESP98
EBD1143-E2B	TEE A	X-683B 1"	723 7'S23.6-10'WP	MS 411	25 39.17	WING B	0 0	.358 .238	EBD-114-3	K1803	K1803-01 RESP98
GAD1011-E1 MSEP DRAIN TO 4A Z1-TEMP	TEE B	X-12 10	707 14'N16-5'EL	MSEPD T-215	9 72.9	TB B	5 X-R1010	.500 .330	GAD-101-1 D.3	K39	K0039-01 RESP98
GAD1012-E1 SIS: X-12, X-249 Z1-TEMP	TEE B	X-248 10	708 14'N19-5'EL	MSEPD T-214	10 37.65	TB B	6 X-R1010	.500 .330	GAD-101-2 D.3	K41	K0041-01 RESP98
GAD1013-E1 SIS: X-12, X-248 Z1-TEMP, Z2-TEMP	TEE B	X-249 10	707 14'N24-5'EL	MSEPD T-212	11 47.06	TB B	6 X-R1010	.500 .330	GAD-101-3 D.3	K42	K0042-01 RESP98
GAD1013-E2 A MSEP DRAIN TO FWH 4C	VALVE	X-169 6	707 14'N24-3'EL	MSEPD T-212	11 36.17	TB B	5 X-R1010	.280 .186	GAD-101-3 D.3	K-43	K0043-01 P43635 RESP98
GAD1021-E2A	REDUCER	X-277A 12	709 6'EL-12'S16	FW T-215	10 0	TB	5 X-R1010	.375 .250	GAD-102-1	K1258	K1258-01 RESP98



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COMPONENT ID	DESCRIPTION	REPLCD ID	SYSTEM	AREA	BUILD	SCAFF	NOM WALL	LINE	MAP NO.
DETAIL PLAN		SIZE	ELEV	ROOM	ERATE	INSUL	MIN WALL	IS1 ISO	
ACC 2 LINE			GRID				EWARNUM	MEAS MIN	ACTIVITY NO
COMMENTS							EXM SCH	OUT DTE	WA NO
GAD1021-E2B	REDUCER	X-277B 6	709 6'EL-12'S16	FW T-215	10 14.4	TB	5 .280 .187	GAD-102-1	K1258 K1258-01
							X-R1010	RESP98	
GAD1031-E1 DRAIN 4A TO 3A	TEE B	X-16 16	703 1'EL-5'N17	FW T-215	10 30.4	TB B	0 .375 .250	GAD-103-1 D.7	K1263 K1263-01
							X-R1010	RESP98	
GBD1011-E2A SIS: GBD1013-E2B Z1-TEMP	REDUCER	X-788 8	701 12'N23-15'EHB	MSEP 211	7 0	TB C	0 .322 .214	GBD-101-1	K205 K0205-01
							X-R1010	RESP98	
GBD1011-E2B SIS: GBD1013-E2A Z-1 TEMP	REDUCER	X-788 10	701 12'N23-15'EHB	MSEP T-211	7 18.24	TB C	0 .500 .330	GBD-101-1	K205 K0205-01
							X-R1010	RESP98	
GBD1022-E1 EXTRACTION 5B DRAIN Z1 TEMP	90 ELBOW	X-191 4	701 0'N21-6'EHE	EXTST T-211	7 59.49	TB B	0 .237 .158	GBD-102-2 D.74	K49 K0049-01
							X-R1010	RESP98	
GBD1033-E1A SIS: GBD1032-E1A, GBD1031-E1A Z1-TEMP	REDUCER	X-795 8	701 11'S23-15'EHB	FWHD T-211	7 33.65	TB C	0 .322 .215	GBD-103-2	K209 K0209-01
							X-R1010	RESP98	
GBD1033-E1B SIS: GBD1031-E1B, GBD1032-E1B Z1-TEMP	EXPANDER	X-795 6	701 11'S23-15'EHB	FWHD T-211	7 0	TB C	0 .280 .186	GBD-103-3	K209 K0209-01
							X-R1010	RESP98	

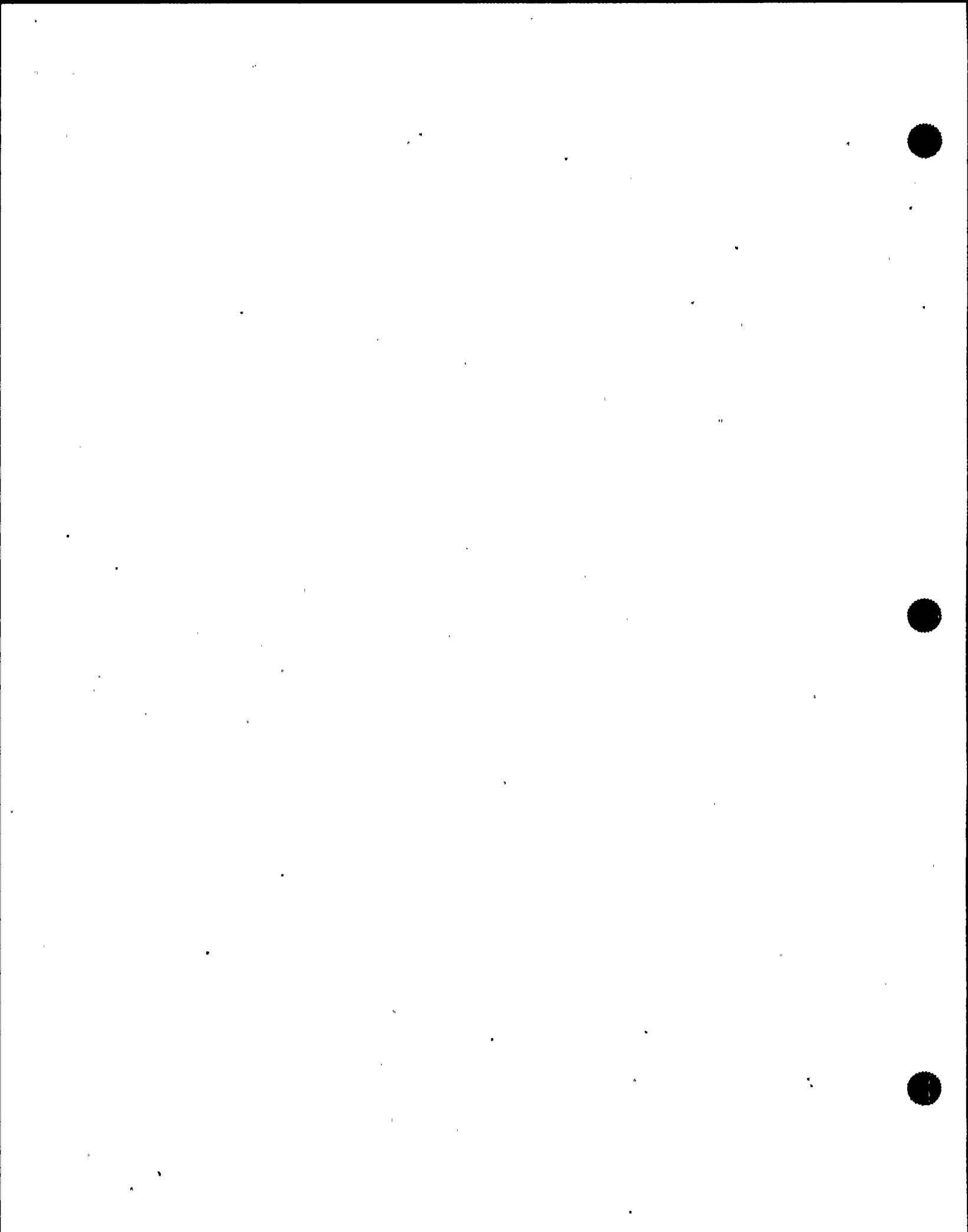


## EROSION/CORROSION EXAMS -- REPORT2

REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE -----	ELEV ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- AREA -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- ISI ISO -----	MAP NO. -----	ACTIVITY NO ----- WA NO -----
							EWRNUM	MEAS MIN			
							EXM SCH	OUT DTE			
GBD1042-E2 FWH 5B VENT Z1-TEMP	90 ELBOW	X-31 3	708 8'S19-15'EK	FW T-214	10 20%	TB B	5	.300 .200	GBD-104-2 D.17	K50	K0050-01
							X-R1010	RESP98			
GBD1081-E1 REJECT TO CST FE-10514A Z1-TEMP	ORIFICE	X-136 4	665 5'N16-0'@KB	COND T-52	9 26.25	TB	6	.237 .157	GBD-108-1 D.65	K51	K0051-01
							X-R1010	RESP98			
GBD1091-E1 SHORT PATH AFTER PV-10508	ORIFICE	X-138 14	670 4'S24-2'EL	COND T-52	11 16.77	TB	12	.500 .333	GBD-109-1 D.66	K656	K0656-01
							X-R1010	RESP98			
GBD1131-E2 LONG PATH AFTER FO-10570B Z1-OBS	45 ELBOW	X-37 16	718 6'N24-9'WJC	FW T-211	7 38.81	TB B	15	.656 .437	GBD-113-1 D.23	K54	K0054-01
							X-R1010	RESP98			
GBD1141-E1 FWH A COOLDOWN	PIPE	X-52 6	708 9'N19-2'EHE	FW T-211	6 20.43	TB B	4	.280 .187	GBD-114-1 D.33	K576	K0576-01
							X-R1010	RESP98			
GBD1143-E1 C FWH COOL DOWN HV-0657C	VALVE	X-217 6	708 7'S22-4'EHE	FW T-211	7 15.05	TURB B	6	.280 .187	GBD-114-3 D.110.	K577	K0577-01
							X-R1010	RESP98			
GBD1181-E1 F.W. 2A TO 3A Z1-TEMP	45 ELBOW	X-48 20	709 9'N16-1'WGB	FW T-211	1 20.66	TB B	7	.812 .541	GBD-118-1 D.31	K55	K0055-01
							X-R1010	RESP98			

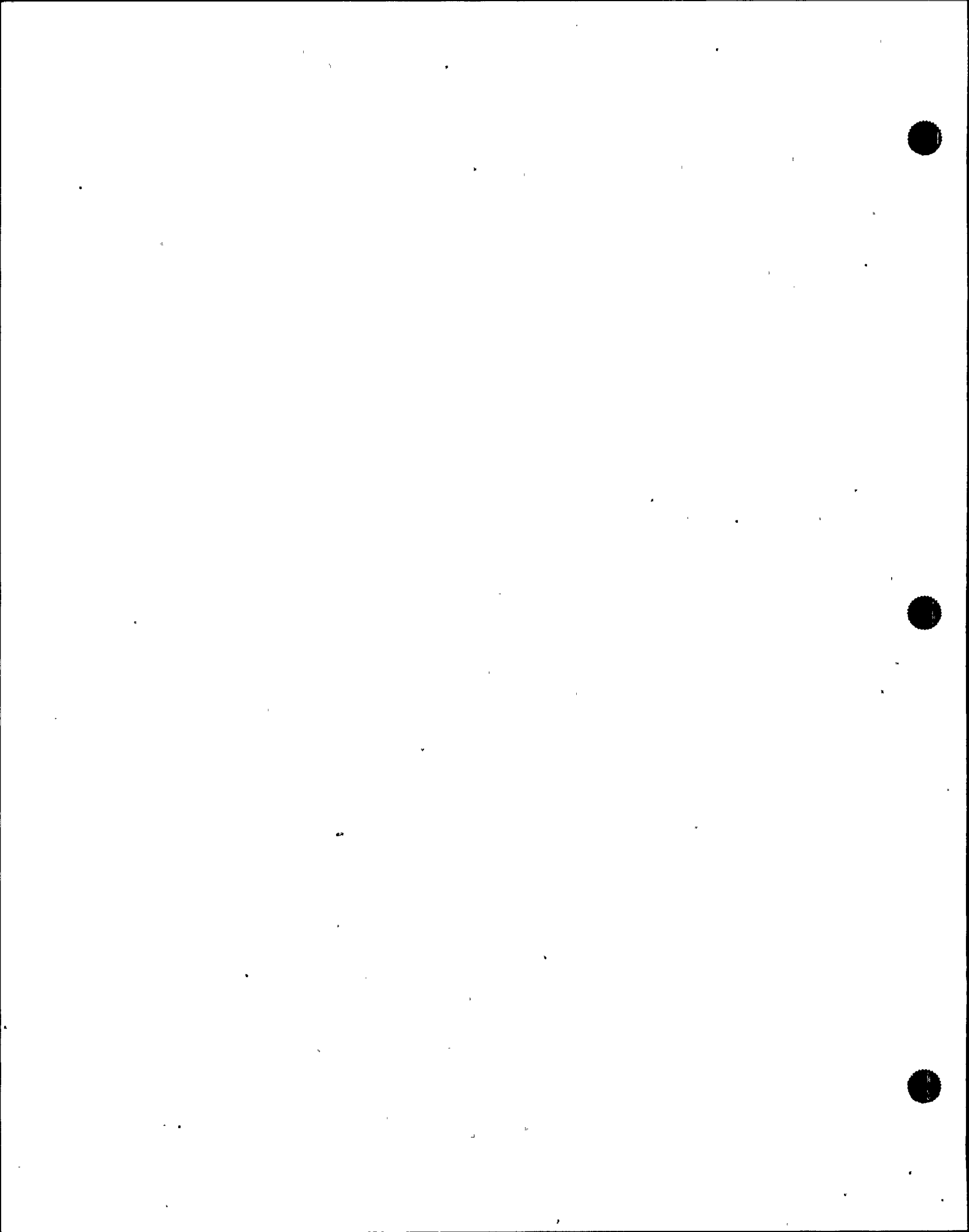




## EROSION/CORROSION EXAMS -- REPORT2

REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE -----	ELEV ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- 1SI 1SO -----	MAP NO. -----
							EWRNUM	MEAS MIN	ACTIVITY NO	
							EXM SCH	OUT DTE	WA NO	
GBD1212-E1 RFP A INLET	ELB & RED	X-45 20	686 1'S19-5'WL	FW T-128	10 24.35	TB B	6	.812 .541	GBD-121-2 D.30	K-581 K0581-01 P43690
GBD1212-E3 RFP B INLET Z1-TEMP	TEE D	X-59 20	689 0 @ 21-13'WM	FW T-128	11 18.45	TB B	10	.812 .541	GBD-121-2 D.30	K60 K0060-01
GBD1215-E2 R.W. 5C EXIT Z1-TEMP	90 ELBOW	X-64 20'	710 4'N22-0'@LA	FW T-213	11 44.28	TB B	8	.812 .541	GBD-121-5 D.30	K62 K0062-01
GBD1252-E1A HAND GRID	TEE F	X-482A 4	734 1'N15-2'WL	MCPR T-422	10 1.27%	TB C	0	0.237 .157	GBD-125-2	K147 K0147-01
GBD1252-E1B HAND GRID	TEE F	X-482B 1	734 1'N15-2'WL	MCPR T-416	10 37.3%	TB C	0	.250 .166	GBD-125-2	K147 K0147-01 P60632
GBD1261-E1 DEM IN RECYCLE TO CONDENSER HV-11617	VALVE	X-218 8	668 4'S24-8'EN	CDEM T-42	12 56.0	TB B	8	.322 .215	GBD-126-1 D.111	K-584 K0584-01 P60649
GBD1401-E1 SIS: X-297, 299	ELBOW	X-295 3	703 5'N15-1'EL	FW T-215	9 35.00	TB	0	.300 .200	GBD-140-1 D.18	K1337 K1337-01



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COMPONENT ID DETAIL PLAN ACC 2 LINE COMMENTS	DESCRIPTION	REPLCD ID SIZE	SYSTEM ELEV GRID	AREA ROOM ERATE	BUILD INSUL	SCAFF	NOM WALL MIN WALL	LINE ISI ISO	MAP NO.	ACTIVITY NO WA NO
GFD1011-E1 EXTRACTION #5 A NO TEMP	PIPE	X-143 14	EXTST 727 T-211 6N18-0@EHB	6 33.6	TB B	22	.375 .250	GFD-101-1 D.2	K145	K0145-01
								RESP98		
GFD1012-E1 EXTR TO FWH 5B, C	TEE F	X-3 18	EXTST 715 T-211 5'N18-4'EHB	6 0.8%	TB B	13	.375 .250	GFD-101-2 D.2	K1444	K1444-01
								RESP98		
GFD1012-E4 EXTR TO FWH 5B, C	PIPE	X-8 14	EXTST 725 T-211 3'N17-0'WHB	6 17.6	TB B	22	.375 .250	GFD-101-2 D.2	K-587	K0587-01 P43696
								RESP98		
GFD1012-E6 EXTR TO FWH 5B, C Z1-HAND GRID	45 ELBOW	X-4 18	EXTST 714 T-211 1'S18-10'WK	6 22.4	TB B	10	.375 .250	GFD-101-2 D.2	K210	K0210-01
								RESP98		
GFD1012-E8 EXTR TD FWH 5B, C	TEE C	X-2 18	EXTST 715 T-211 7'WK-12'S18	6 19.2	TB B	10	.375 .250	GFD-101-2 D.2	K1448	K1448-01
								RESP98		
GFD1031-E1A XAROUND STEAM DRAINS Z1-TEMP	TEE A	X-125A 6	MSEP 696 T-113 3'S18-4'WHB	2 8.51	TB B	16	.280 .187	GFD-103-1 D.21	K146	K0146-01
								RESP98		
GFD1031-E1B XAROUND STEAM DRAINS Z1-TEMP	TEE A	X-125B 4	MSEP 696 T-113 3'S18-4'WHB	2 0	TB B	16	.237 .158	GFD-103-1 D.21	K146	K0146-01
								RESP98		



## EROSION/CORROSION EXAMS -- REPORT2

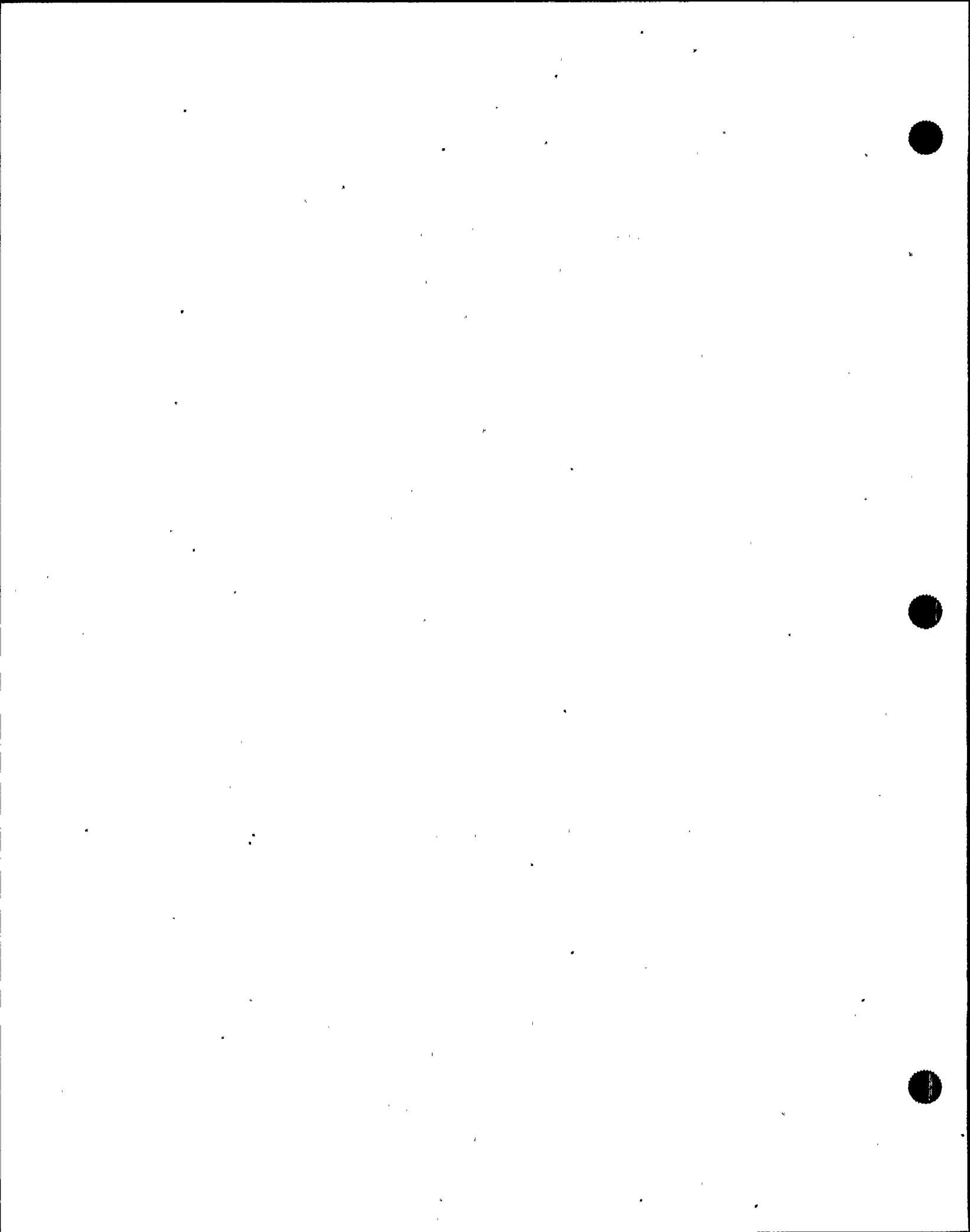
REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE -----	ELEV ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- ISI ISO -----	MAP NO. -----	ACTIVITY NO ----- WA NO -----
							EWRNUM	MEAS MIN			
							EXM SCH	OUT DTE			
HBD1203-E1 FWH 3C VENT Z1-TEMP	90 ELBOW	X-157 3	704 5N23-13EK	FW T-212	11 45.83	TB B	0	.216 .144	HBD-120-3 D.19	K90	K0090-01
							X-R1010	RESP98			
HBD1203-E2 FWH 3C VENT Z1-TEMP	90 ELBOW	X-33 4	708 5'N22-7'EKB	FWHV T-212	11 43.08	TB B	6	.237 .158	HBD-120-3 D.19	K88	K0088-01
							X-R1010	RESP98,			
HBD1542-E3 HP TURB INNER GLAND Z1-TEMP	90 ELBOW LKOFF	X-166 4	726 4'5"N18-0'HB	TS T-211	6 21.25	TB B	22	.237 .157	HBD-154-2 D.79	K89	K0089-01
							X-R1010	RESP98			
SPEBD1114-E1 RFPT BELOW SEAT DRN HAND GRID	90 ELBOW	X-109 1	669 9N23-10WK	RFPT T-31	7 20.83	TB B	10	.358 .239	SP-EBD-111-4 D.51	K177	K0177-01
							X-R1010	RESP98			
SPEBD1134-E2 MAIN STEAM TO SSE DRAIN EXISTING GRID	90 ELBOW	X-129 1	682 1'N18-4'WHB	TS T-113	2 26.67	TB B	4	.358 .238	SP-EBD-113-4 D.59	K186	K0186-01
							X-R1010	RESP98			
SPGAD1452-E1 CV BEFORE SEAT DRAINS FO-10102	ORIFICE	X-87 1	695 6'EJ-3'N18	TURB T-113	6 0	TB B	17	.179 .100	SP-GBD-145-2 D.43	K1557	K1557-01
							X-R1010	RESP98			
SPGBD1231-E1 MAIN STEAM TO SJAE DRN Z1-HAND GRID	90 ELBOW	X-103 1	672 2'S23-0'@GE	MCPR T-36	3 19.27	TB B	12	.250 .167	SP-GBD-123-1 D.50	K159	K0159-01
							X-R1010	RESP98			

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REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE -----	ELEV ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- ISI ISO -----	MAP NO. -----
							EWRNUM	MEAS MIN	ACTIVITY NO	
							EXM SCH	OUT DTE	WA NO	
SPGBD1233-E1 SIS: NONE	ORIFICE	X-582 1	700 5'S15-11'WHA	MCPR T-211	1 0%	TB	0	.250 .166	SP-GBD-123-3 D.50	K1585 K1585-01
								RESP98		
SPGBD13311-E1 B RFPT LP AFTER SEAT HAND GRID	90 ELBOW DRAIN	X-208 1	683 6'S21-10'EK	RFPT T-115	11 37.35	TB B	3	.250 .166	SPGBD-133-11 D.101	K180 K0180-01
							X-R1010	RESP98		
SPGBD13318-E1 RFPT A LP BELOW SEAT	ELBOW DRAINS	X-132 1	682 7'S19-10'EK	RFPT T-116	10 21.69	TB B	0	.250 .167	SPGBD-133-18 D.61	K-181 K0181-01 P43603
							X-R1010	RESP98		
SPGBD13319-E1 A RFPT CHEST DRAIN HAND GRID	90 ELBOW DRAIN	X-212 .75	681 2'S19-9'EK	RFPT T-116	10 20.27	TB B	0	.219 .145	SPGBD-133-19 D.105	K182 K0182-01
							X-R1010	RESP98		
SPGBD13320-E1 C RFPT LP BEFORE SEAT	90 ELBOW DRAIN	X-211 1	682 4'S23-10'EK	RFPT T-114	11 33.74	TB B	3	.250 .167	SPGBD-133-20 D.104	K635 K0635-01
							X-R1010	RESP98		
SPGBD13321-E1 C RFPT CHEST DRAIN HAND GRID	90 ELBOW DRAIN	X-214 .75	681 1'N23-8'EK	RFPT T-114	11 25.6%	TB B	0	.219 .145	SPGBD-133-21 D.107	K183 K0183-01
							X10R10	RESP98		
SPGBD1337-E1 A RFPT LP AFTERSEAT	90 ELBOW DRAIN	X-207 1	682 7'S19-10'EK	RFPT T-116	10 37.35	TB B	4	.250 .166	SP-GBD-133-7 D.100	K636 K0636-01
							X-R1010	RESP98		





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COMPONENT ID	DESCRIPTION	REPLCD ID	SYSTEM	AREA	BUILD	SCAFF	NOM WALL	LINE	MAP NO.
DETAIL PLAN		SIZE	ELEV	ROOM	ERATE	INSUL	MIN WALL	ISJ ISO	
ACC 2 LINE			GRID				EWRNUM	MEAS MIN	ACTIVITY NO
COMMENTS							EXM SCH	OUT DTE	WA NO
SPGBD1521-E1 MAIN STEAM TO RFPT DRAINS	ELBOW	X-130 1	670 7'N23-7'EJ	RFPT T-36	7 19.28	TB B	10 .250 .167	SP-GBD-152-1 D.28	K-608 K0608-01 P43774
SPGFD1036-E1 XAROUND DRAIN (51A2)	ELBOW	X-35 2	704 5'N17-11'EG	MSEPD T-211	2 21.74	TB B	0 .344 .229	SP-GFD-103-6 D.21	K637 K0637-01
SPHAD1481-E2 MAIN STEAM TO SJAE DRN FO-10701	ORIFICE	X-101 1	680	MCPR T-113	2 0	TB	0 .179 .119	SP-HBD-148-1 D.49	
SPHAD1523-E1 SSE DRAIN TO FWH #2A HAND GRID	BEND	X-113/SPHBD1523-E1 2	714 7'N19-2WGE	TS T-211	2 16.44	TB B	11 .218 .145	SP-HAD-152-3 D.53	K188 K0188-01
SPHAD1691-E2 SSE-BLOWDOWN HV-10761 HAND GRID	90 ELBOW	X-119 1	681 2'S18-3'WHB	TS T-113	2 45%	TB B	0 .179 .119 16791 X-RI010	SP-HAD-169-1 D.55	K175 K0175-01
SPHAD1711-E1 SSE VENT AFTER HV-10728	VALVE	X-116 1	686 10'N18-4'EHB	TS T-113	6 23.3	TB B	7 .179 .119	SP-HBD-171-1 D.54	K553 K0553-01
SPHAD1713-E2 SSE VENT AFTER 1-07-001 Z1-TEMP	VALVE	X-114 1	732 7'N16-0'@LA	TS T-416	9 26.6	TB B	0 .179 .119	SP-HBD-171-3 D.54	K192 K0192-01

## EROSION/CORROSION EXAMS -- REPORT2

REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- ISI ISO -----	MAP NO. -----
		ELEV				EWRNUM	MEAS MIN		ACTIVITY NO
						EXM SCH	OUT DTE		WA NO
SPHBD10742-E1 RFPT A XAROUND DRAIN Z1-TEMP	90 ELBOW	X-38 2	RFPT T-116	10 34.25	TB B	0	.218 .145	SPHBD-1074-2 D.24	K191 K0191-01
						X-RI010	RESP98		
SPHBD1091-E2 EXTRACTION 3A DRAIN Z1-TEMP	VALVE HV-10203A	X-203 2	EXTST T-211	6 0%	TB B	4	.218 .145	SP-HBD-109-1 D.97	K161 K0161-01
						X-10RIO	RESP98		
SPHBD1095-E1 EXTRACTION 3C DRAIN Z1-TEMP	90 ELBOW	X-202 2	EXTST T-211	7 42.47	TB B	0	.218 .145	SP-HBD-109-5 D.96	K162 K0162-01
						X-RI010	RESP98		
SPHBD1096-E2 EXTRACTION 3B DRAIN HAND GRID OBS	VALVE HV-10204B	X-201 2	EXST T-211	7 57.53	TB B	0	.218 .145	SP-HBD-109-6 D.95	K163 K0163-01
						X-RI010	RESP98		
SPHBD1097-E1 EXTRACTION #3 DRAINS Z1-TEMP	90 ELBOW	X-128 2	EXTST T-211	6 39.73	TB B	0	.218 .145	SP-HBD-109-7 D-15	K164 K0164-01
						X-RI010	RESP98		
SPHBD1097-E3 EXTR 3A DRAIN (04A)	ELBOW	X-29 2	EXTST T-211	6 23.29	TB B	4	.218 .145	SP-HBD-109-7 D.15	K640 K0640-01
						X-RI010	RESP98		
SPHBD1101-E2 EXTRACTION 4A DRAIN	90 ELBOW	X-197 2	EXTST T-211	6 12.33	TURB B	11	.218 .145	SP-HBD-110-1 D.91	K641 K0641-01
						X-RI010	RESP98		

## EROSION/CORROSION EXAMS -- REPORT2

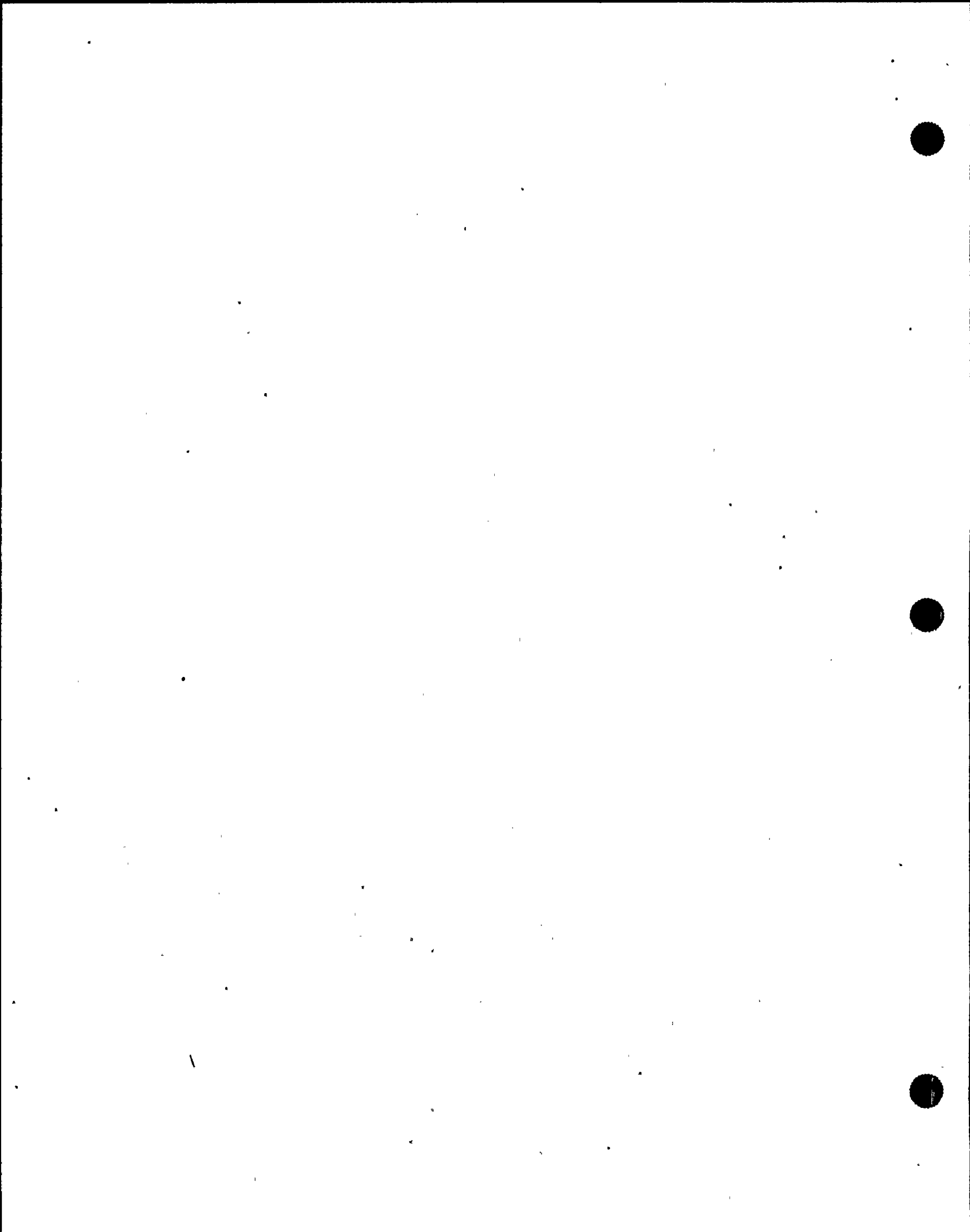
REPORT DATE: 08/21/98

COMPONENT ID	DESCRIPTION	REPLCD ID	SYSTEM	AREA	BUILD	SCAFF	NOM WALL	LINE	MAP NO.
DETAIL PLAN		SIZE	ELEV	ROOM	ERATE	INSUL	MIN WALL	ISI ISO	
ACC 2 LINE		GRID					MEAS MIN		ACTIVITY NO
COMMENTS							OUT DTE		WA NO
SPHBD1102-E2	VALVE	X-876 2	EXT STM 706 211 16'N19-25'EHB	6 49.31	TB B	0	.218 .145	SPHBD110-2	K1830 K1830-01
								RESP98	
SPHBD1105-E3	BEND	X-874 2	EXT STM 708 211 6'N24-4'WK	7 71.2	TB B	5	.218 .145	SPHBD110-5	K1828 K1828-01
								RESP98	
SPHBD1107-E1 EXTRACTION 4B DRAIN Z1, Z3 TEMP	90 ELBOW	X-200 2	EXTST 710 T-211 6'N19-4'WK	6 28.77	TB B	6	.218 .145	SP-HBD-110-7 D.94	K167 K0167-01
						X-R1010		RESP98	
SPHBD1108-E3	VALVE	X-875 2	EXT STM 708 211 9'N21-20'EHB	7 23.29	TB B	5	.218 .145	SPHBD110-8,	K1829 K1829-01
								RESP98	
SPHBD1151-E2 MAIN STEAM TO SJAE DRAIN #2 HAND GRID OBS	90 ELBOW	X-162 2	MCPR 701 T-211 6'S15-18'WHB	1 23.29	TB B	0	.218 .145	SP-HBD-115-1 D.78	K169 K0169-01
						X-R1010		RESP98	
SPHBD1151-E4 MAIN STEAM TO SJAE DRAIN #3	ELBOW	X-163 2	MCPR 701 T-211 6'S15-6'WHB	1 34.25	TB B	0	.218 .145	SP-HBD-115-1 D.78	K642 K-0642-01
						X-R1010		RESP98	
SPHBD1216-E1	VALVE	X-870 1	COND 647 31 4'N25-9'EJ	7 16.67	TB B	6	.179 .119	SPHBD121-6	K1824 K1824-01
								RESP98	

## EROSION/CORROSION EXAMS -- REPORT2

REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE -----	ELEV ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- ISI ISO -----	MAP NO. -----
							EWRNUM ----- EXM SCH -----	MEAS MIN ----- OUT DTE -----		ACTIVITY NO ----- WA NO -----
SPHBD1791-E1	ORIFICE	X-869 1	686 7'S25-1'WHB	SJAE 111	4 1.67	TB B	6	.179 .119	SPHBD179-1	K1823 K1823-01
								RESP98		
SPHBD302312-E1 SIS: NONE HAND GRID	90 ELBOW	X-635 .75	672 4'S15-7'EK	AUX BLR T-52	9 27.45	TB B	14 X-RIO10	.154 .103	SPHBD3023-12 D.184	K201 K0201-01
								RESP98		
SPHBD302319-E2 SIS: NONE HAND GRID	BEND	X-633 1	667 4'S40-8'EL	AUX BLR G-52	23 28.33	TB B	8	.179 .119	SPHBD3023-19 D.183	K203 K0203-01
								RESP98		
SPHBD30234-E1 SIS: NONE HAND GRID	90 ELBOW	X-636 1.5	669 3'N14-2'WJB	AUX BLR T-44	5 29.85	TB B	10 X-RIO10	.200 .133	SPHBD3023-4 D.184	K197 K0197-01
								RESP98		
SPHCD1041-E3 SIS: NONE	ORIFICE	X-625 1	672 3'S24-2'WL	CRD T-52	11 0	TB B	10 X-RIO10	.133 .100	SP-HCD-104-1 D.133	K650 K0650-01
								RESP98		
SSH-E3A SSE OUTLET	REDUCER	X-187A 12	741 6'N15-1'EL	TS T-416	9 0	TB B	8 X-RIO10	.406 .270	F110630-1303 D.87	K-593 K0593-01 P43701
								RESP98		
SSH-E3B SSE OUTLET	REDUCER	X-187B 8	741 6'N15-1'EL	TS T-416	9 0	TB B	8	.322 .214	F110630-1303 D.87	K-593 K0593-01 P43701
								RESP98		



## EROSION/CORROSION EXAMS -- REPORT2

REPORT DATE: 08/21/98

COMPONENT ID	DESCRIPTION	REPLCD ID	SYSTEM	AREA	BUILD	SCAFF	NOM WALL	LINE	MAP NO.
DETAIL PLAN		SIZE	ELEV	ROOM	ERATE	INSUL	MIN WALL	ISI ISO	
ACC 2 LINE			GRID				EWRNUM	MEAS MIN	ACTIVITY NO
COMMENTS							EXM SCH	OUT DTE	WA NO
VNBB211-E2 MAIN STEAM 'C' INSIDE CONT. Z1-HAND GRID	90 ELBOW	X-174 26	741 252	MS R-516 AZ-28RCL	26 27.17	RB M	0 .893	1.138 D.81	VNB-B21-1 K152 K0152-01
							X-R1010	RESP98	
VNBB211-E3 SIS: X-174, 460, 462 Z1, Z2 TEMP	45 ELBOW	X-460 26	750 288AZ-26RCL	MS R-516	26 30.61	RB M	10 .893	1.138 D.150	VNB-B21-1 K149 K0149-01
							X-R1010	RESP98	
1SCVL-E12 CV-4 TO H.P. EXHAUST	ELBOW	X-173 .5	715 6'N18-4'EJB	TS T-211	6 29.79	TB B	14 .100	.147 D.41	F110610-2801 K-557 K0557-01 P43668
							X-R1010	RESP98	
1SLBPV-E20 BYPASS HP STEAM LEAKOFF	ELBOW	X-94 .5	718 8'N16-15'EG	TS T-211	1 19.15	TB B	0 .100	.147 D.46	F110600-7101 K652 K0652-01
							X-R1010	RESP98	
2SCVL-E13 CV-4 STEAM LEAKOFF HAND GRID	90 ELBOW	X-90 1.5	714 5'N18-5'EJB	TS T-211	6 32.48	TB B	12 .133	.200 D.41	F110610-2801 K194 K0194-01
							X-R1010	RESP98	
2SLBPV-E17 BPV LP STEAM LEAKOFF	ELBOW	X-95 1.5	718 5'S15-16'EG	TS T-211	1 9%	TB B	0 .133	.200 D.46	F110600-7101 K653 K0653-01
							X-R1010	RESP98	
3SCVL-E28	ELBOW	X-242 1.5	711 4'S16-15'WK	TS T-211	6 28.36	TB B	10 .133	.200 D.114	F110630-1302 K1764 K1764-01
							X-R1010	RESP98	

EROSION/CORROSION EXAMS -- REPORT2

REPORT DATE: 08/21/98

COMPONENT ID ----- DETAIL PLAN ----- ACC 2 LINE ----- COMMENTS -----	DESCRIPTION -----	REPLCD ID ----- SIZE ----- GRID -----	SYSTEM ----- ROOM -----	AREA ----- ERATE -----	BUILD ----- INSUL -----	SCAFF -----	NOM WALL ----- MIN WALL -----	LINE ----- ISI ISO -----	MAP NO. -----
3SLBPV-E19 BPV SEALING STEAM	ELBOW	X-97 .5	TS T-211	1 19.15	TB B	0	.147 .100	F110600-7101 D.46	K654 K0654-01
						X-R1010	RESP98		

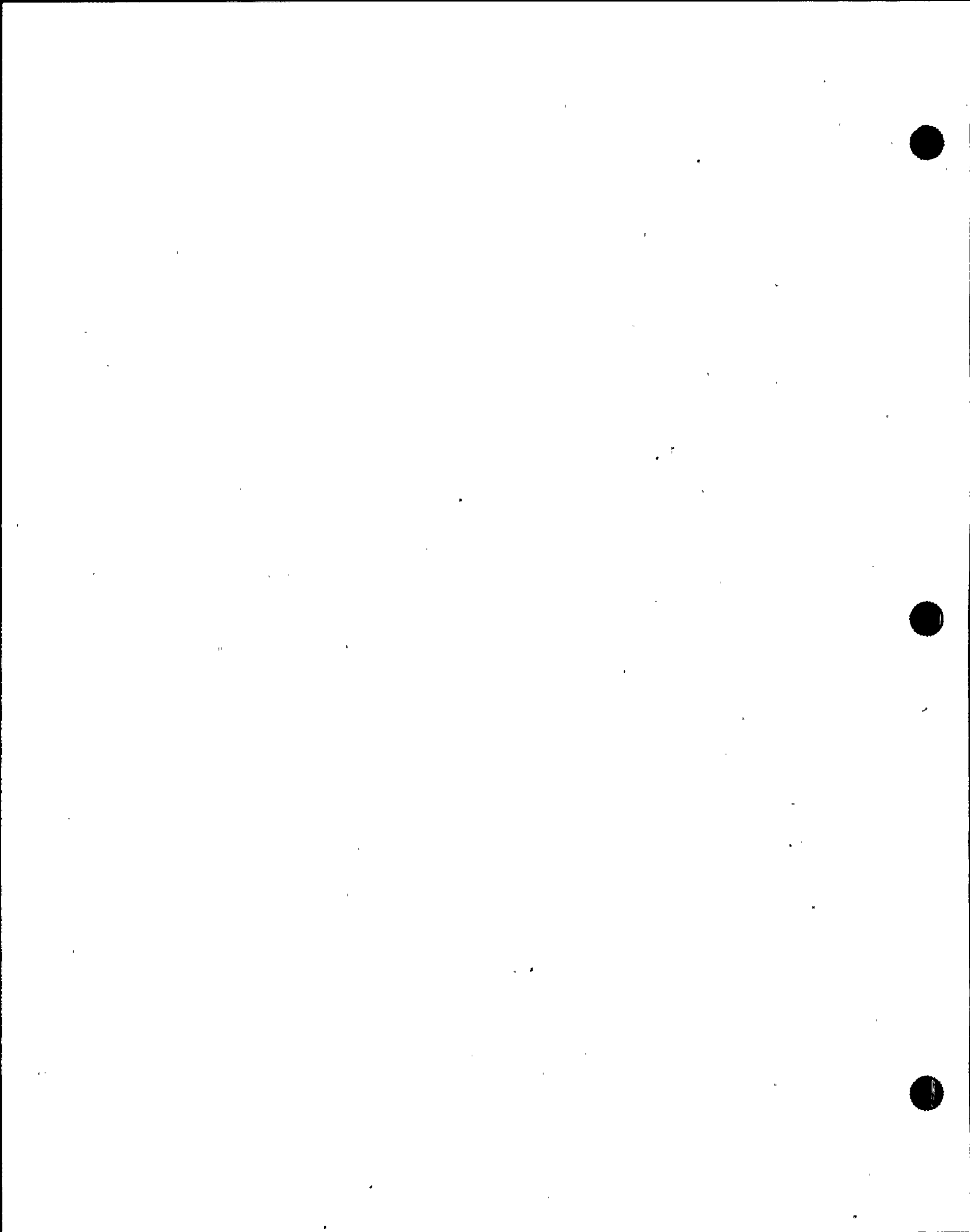
TOTAL EXAMS: 113

ECRPT2





**APPENDIX F**  
**CONTAINMENT INSPECTIONS**



# VISUAL EXAMINATION DATA

## COATINGS AND GASKETS

SSES UNIT #: <u>1</u>	SYSTEM: <u>59</u>	PROCEDURE: <u>NVT-3</u>	REV: <u>2</u>
CODE: <u>ASME XI 92 W/92A</u>	CLASS: <u>MC</u>	WA #: <u>H70231</u>	NDE RPT#: <u>ISI-98-615</u>
ACCEPTANCE STANDARD: <u>ASME XI 92 W/92A</u>	DRAWING/ISO: <u>IOM174</u> REV: <u>    </u>		
COMPONENT: <u>X-200B</u>	AREA: <u>27</u> ELEVATION: <u>683</u>		
MATERIAL: <u>EPDM Rubber</u>	SYSTEM OPERATIONAL: <u>    </u> SHUTDOWN: <u>X</u> STARTUP: <u>    </u>		
EXAMINATION INFORMATION DIRECT: <u>X</u>	REMOTE: <u>    </u>	LIGHT SOURCE: <u>Flashlight</u>	
SURFACE CONDITION / PREPARATION: <u>As Found</u>		RESOLUTION CARD: <u>Yes</u>	
EXAMINATION EQUIPMENT: <u>    </u>			

### COATINGS INDICATION TYPE:

FLAKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	DISTORTION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
BLISTERING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>
PEELING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	PITTING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISCOLORATION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CORROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISTRESS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	ARC STRIKES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
CRACKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	GOUGES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DENTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input checked="" type="radio"/> N/A <input type="radio"/>

### GASKETS AND SEALS INDICATION TYPE:

WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>	TEARS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	SURFACE CRACKS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
EROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input checked="" type="radio"/> N/A <input type="radio"/>

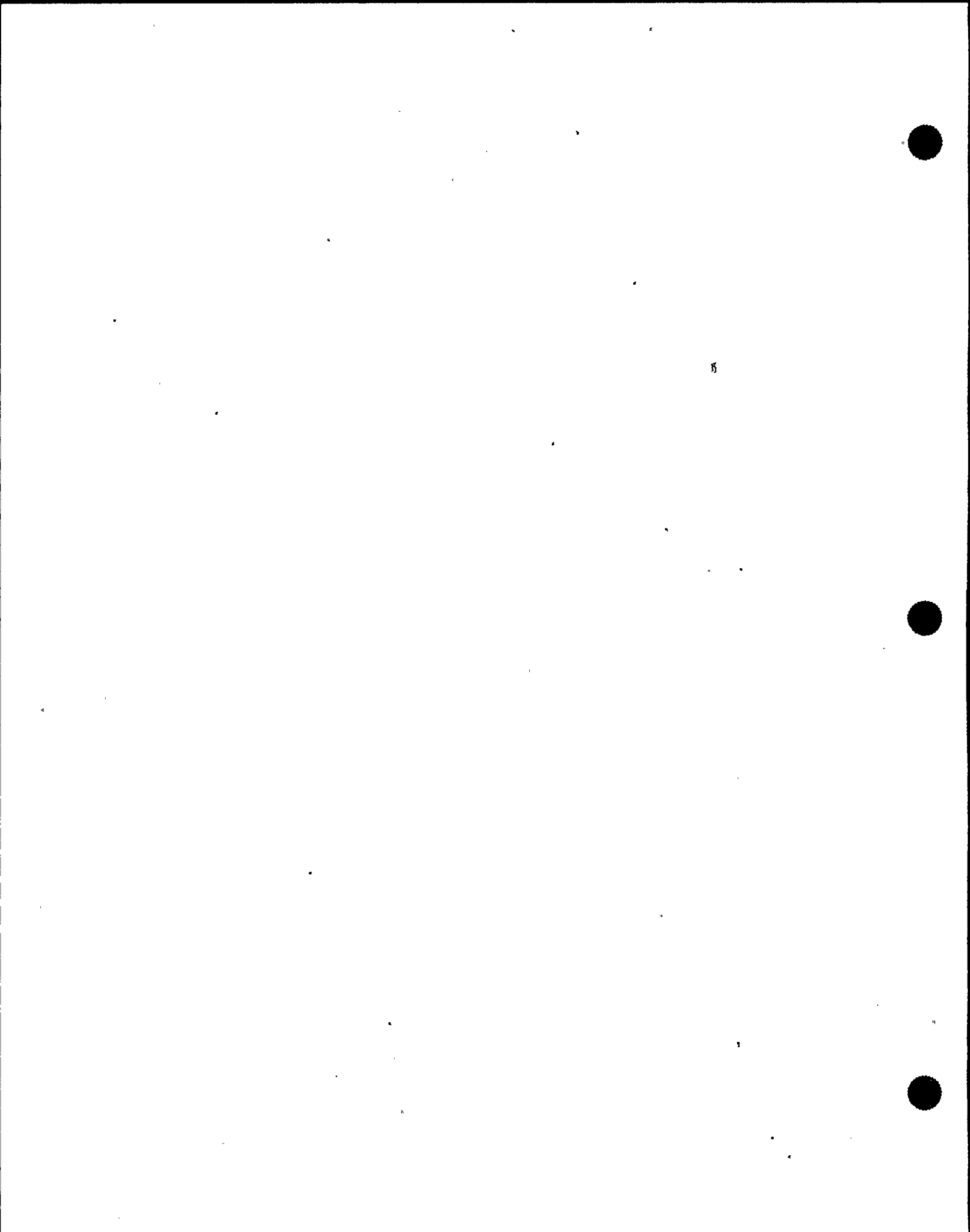
#### INDICATION DETAILS AND COMMENTS:

Examination performed on two gaskets for North Suppression Pool Hatch X-200B. Inner Gasket: 1/2"x7/16"x19' 2 11/32". PO#7-187541; CAT#54857 PN307-5 Presray PR8400-101 SN 75580-7 3Q97 EPDM E521. Outer Gasket: 1/2"x7/16"x19' 7 1/32"; PO#7187541; CAT#54856 PN307-4 Presray PR8400-100 SN75580-4 3Q97; EPDM E521. Flashlight illumination before exam 100 FC at 4'/after 97 FC at 4'. Illumination verified using ARDROX light meter S/N 187712A&C.

#### REVIEWED & ACCEPTED

SUPPLEMENTAL DATA: SKETCH: <u>No</u> PHOTO: <u>No</u> VIDEO TAPE: <u>No</u> OTHER: <u>No</u>	FACTORY MUTUAL
DISPOSITION: ACCEPTABLE <input checked="" type="radio"/> REJECTABLE <input type="radio"/>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">               AUTH. NUCLEAR INSERVICE Insp. DATE <u>5/19/98</u> </div>
COMMENTS: <u>    </u>	

EXAMINER: <u>Robert McCann</u>	REVIEWED BY: <u>John T. Dwyer</u>	APPROVED BY: <u>    </u>
LEVEL: <u>II</u> DATE: <u>5/18/98</u>	LEVEL: <u>III</u> DATE: <u>5/19/98</u>	LEVEL: <u>    </u> DATE: <u>    </u>
EXAMINER: <u>    </u>	SUPPLEMENTAL DATA ATTACHED: <u>    </u>	
LEVEL: <u>    </u> DATE: <u>    </u>	Yes <input type="radio"/> No <input checked="" type="radio"/>	



# VISUAL EXAMINATION DATA

## COATINGS AND GASKETS

SSES UNIT #: <u>1</u>	SYSTEM: <u>59</u>	PROCEDURE: <u>NVT-3</u>	REV: <u>2</u>
CODE: <u>ASME XI 92 W/92A</u>	CLASS: <u>MC</u>	WA #: <u>H70230</u>	NDE RPT#: <u>ISI-98-610</u>

ACCEPTANCE STANDARD: <u>ASME XI 92 W/92A</u>	DRAWING/ISO: <u>IOM174</u>
COMPONENT: <u>Hatch X200A Gaskets (2)</u>	REV: _____
MATERIAL: <u>EPDM Rubber</u>	AREA: <u>27</u> ELEVATION: <u>683</u>

SYSTEM OPERATIONAL: \_\_\_\_\_ SHUTDOWN: X STARTUP: \_\_\_\_\_

EXAMINATION INFORMATION DIRECT: X REMOTE: \_\_\_\_\_ LIGHT SOURCE: Flashlight

SURFACE CONDITION / PREPARATION: As Found RESOLUTION CARD: Yes

EXAMINATION EQUIPMENT: Light Meter 187712A&C

N/A 7/14 5/18/98

COATINGS

INDICATION TYPE:

FLAKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	DISTORTION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
BLISTERING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>
PEELING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	PITTING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISCOLORATION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CORROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISTRESS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	ARC STRIKES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
CRACKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	GOUGES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DENTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input checked="" type="radio"/> N/A <input type="radio"/>

GASKETS AND SEALS

INDICATION TYPE:

WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>	TEARS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	SURFACE CRACKS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
EROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input checked="" type="radio"/> N/A <input type="radio"/>

**INDICATION DETAILS AND COMMENTS:**

Examination performed on two gaskets for South Suppression Pool Hatch X-200A. Inner Gasket: 1/2"x7/16"x19' 2 11/32" PO#6-49066-1; Cat#54857; EPDME521 Presray PR8400-101; SN 74422-6; 1Q97. Outer Gasket: 1/2"x7/16"x19' 7 1/32" PO#6-49066-1; Cat#54856; EPDME521 Presray PR8400-100; SN7422-3 1Q97. Flashlight illumination before exam 214 FC at 4'/after exam 212 FC at 4'. Illumination verified using ARDROX lightmeter S/N 187712A&C.

**REVIEWED & ACCEPTED**  
**FACTORY MUTUAL**

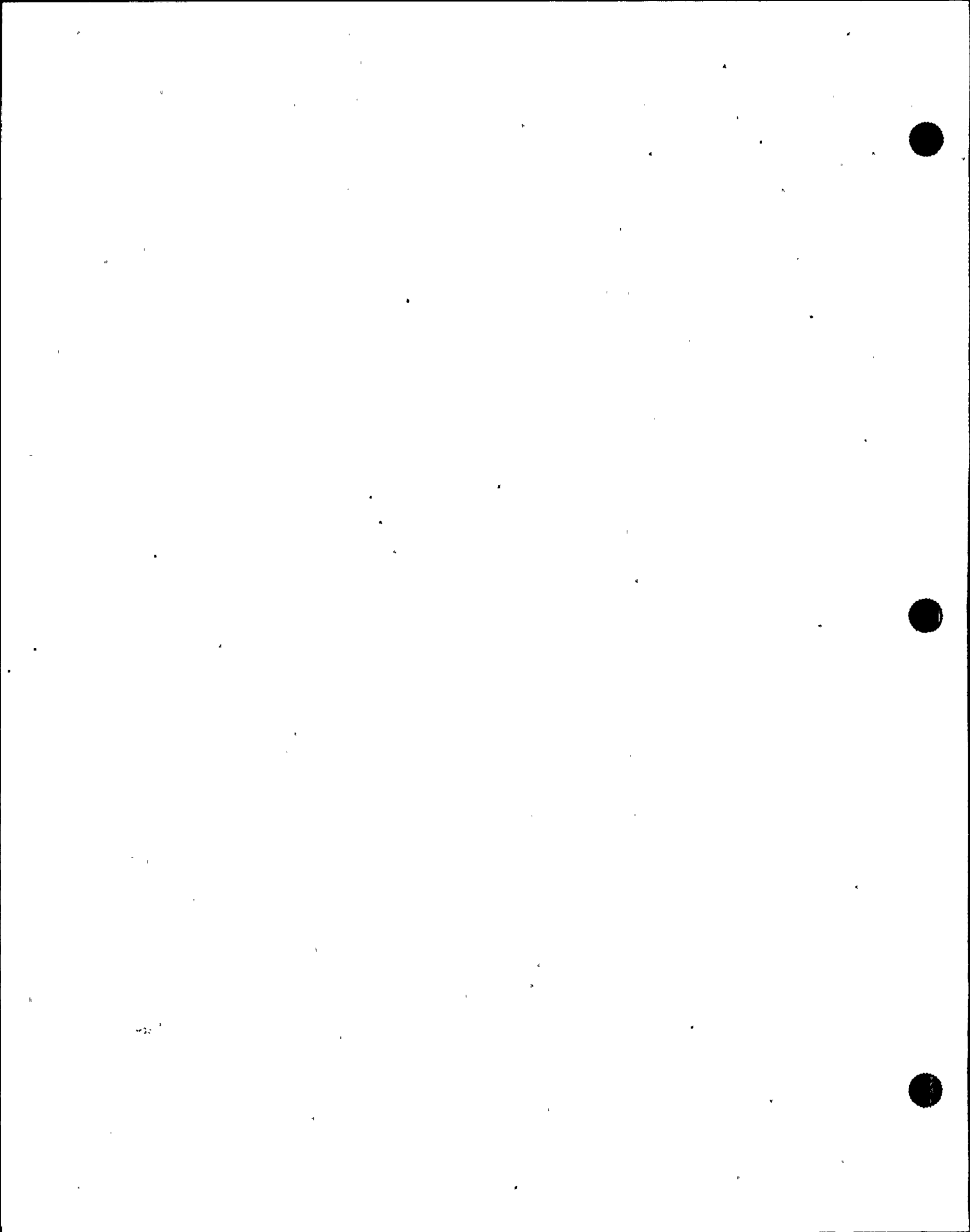
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DISPOSITION: ACCEPTABLE  REJECTABLE

COMMENTS: \_\_\_\_\_

*[Signature]* 5/18/98  
AUTH. NUCLEAR INSERVICE INSP. DATE

EXAMINER: <u>Robert McCann</u>	REVIEWED BY: <u>[Signature]</u>	APPROVED BY: _____
LEVEL: <u>II</u> DATE: <u>5/18/98</u>	LEVEL: <u>III</u> DATE: <u>05/18/98</u>	LEVEL: _____ DATE: _____
EXAMINER: _____	SUPPLEMENTAL DATA ATTACHED:	
LEVEL: _____ DATE: _____	Yes <input type="radio"/> No <input checked="" type="radio"/>	



# VISUAL EXAMINATION DATA

## COATINGS AND GASKETS

SSES UNIT #: <u>1</u>	SYSTEM: <u>59</u>	PROCEDURE: <u>nvt-3</u>	REV: <u>2</u>
CODE: <u>ASME XI 92 W/92A</u>	CLASS: <u>MC</u>	WA #: <u>H70220</u>	NDE RPT#: <u>ISI-98-601</u>

ACCEPTANCE STANDARD: <u>ASME XI 92 W/92A</u>	DRAWING/ISO: <u>IOM174</u>
COMPONENT: <u>EQUIP. HATCH GASKETS (2)</u>	REV: _____
MATERIAL: <u>RUBBER*</u>	AREA: <u>27</u> ELEVATION: <u>719</u>

SYSTEM OPERATIONAL: \_\_\_\_\_ SHUTDOWN: X STARTUP: \_\_\_\_\_

EXAMINATION INFORMATION DIRECT: X REMOTE: \_\_\_\_\_ LIGHT SOURCE: FLASHLIGHT

SURFACE CONDITION / PREPARATION: AS FOUND RESOLUTION CARD: YES

EXAMINATION EQUIPMENT: \_\_\_\_\_

COATINGS					
INDICATION TYPE:					
FLAKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	DISTORTION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
BLISTERING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>
PEELING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	PITTING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISCOLORATION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CORROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISTRESS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	ARC STRIKES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
CRACKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	GOUGES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DEFECTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input checked="" type="radio"/> <u>N/A</u>

GASKETS AND SEALS					
INDICATION TYPE:					
WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>	TEARS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	SURFACE CRACKS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
EROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input checked="" type="radio"/> <u>N/A</u>

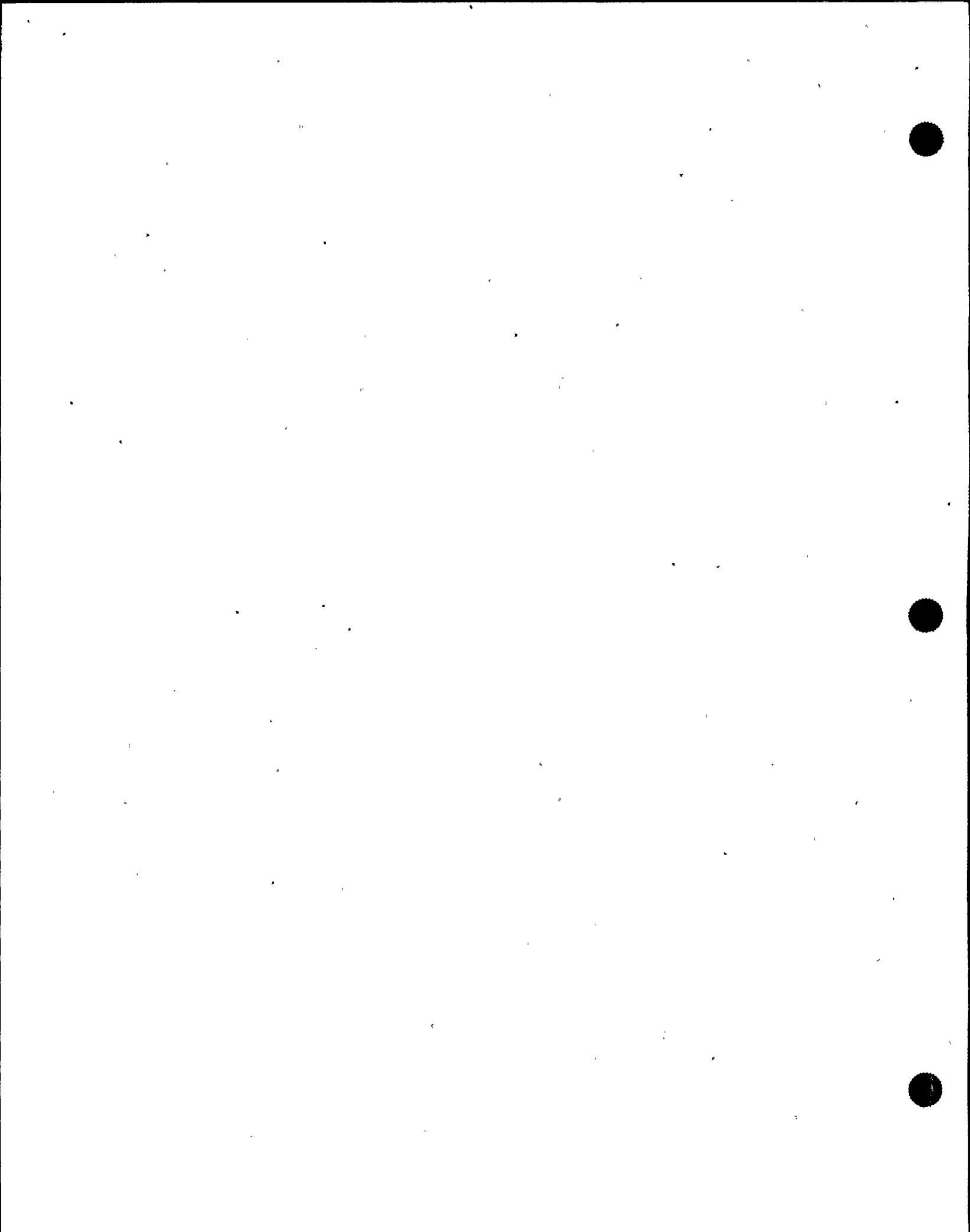
**INDICATION DETAILS AND COMMENTS:**

Inspected inner and outer equipment hatch gaskets. Flashlight illumination before examination was verified to be 106 FC @ 4'. Post examination illumination was verified to be 96 FC @ 4'. Both illumination verifications were performed using Ardrex Light Meter S/N 187712A&C.

\*Outer-Cat#29079, Mat Code N, P.O. 0-36426-1, Red Rubber 3/4x1/2x38'-7  
25/32, Ch. Bridge, Part#552-2X-1. Inner-Cat#29078, Mat Code-N, P.O. 6-491541, Gasket Black Rubber 3/4x1/2x38'-1 17/32, Presray PR8400-202 S/N74760-1 2Q97-On Gasket.

SUPPLEMENTAL DATA: SKETCH: <u>No</u> PHOTO: <u>No</u> VIDEO TAPE: _____	REVIEWED & ACCEPTED FACTORY MUTUAL No OTHER: <u>No</u>
DISPOSITION: <u>ACCEPTABLE</u> <input checked="" type="radio"/> REJECTABLE <input type="radio"/>	<i>di. Doolittle</i> 5/16/98 AUTH. NUCLEAR INSERVICE DEP. DATE

EXAMINER: <u>Robert McCann</u>	REVIEWED BY: <u>Mark T. Doolittle</u>	APPROVED BY: _____
LEVEL: <u>II</u> DATE: <u>5/16/98</u>	LEVEL: <u>III</u> DATE: <u>5/16/98</u>	LEVEL: _____ DATE: _____
SUPPLEMENTAL DATA ATTACHED: <u>Yes</u> <input type="radio"/> <u>No</u> <input checked="" type="radio"/>		Page _____ of _____





# VISUAL EXAMINATION DATA

## COATINGS AND GASKETS

SSES UNIT #: <u>1</u>	SYSTEM: <u>'59</u>	PROCEDURE: <u>NVT-3</u>	REV: <u>2</u>
CODE: <u>ASME XI 92 W/92A</u>	CLASS: <u>MC</u>	WA #: <u>H70229</u>	NDE RPT#: <u>ISI-98-577</u>

ACCEPTANCE STANDARD: <u>ASME XI 92 W/92A</u>	DRAWING/ISO: <u>FF101503</u>
COMPONENT: <u>X-006</u>	REV: <u>4</u>
MATERIAL: <u>EDPM Rubber</u>	AREA: <u>29</u> ELEVATION: <u>719</u>

SYSTEM OPERATIONAL: \_\_\_\_\_ SHUTDOWN: X STARTUP: \_\_\_\_\_

EXAMINATION INFORMATION DIRECT: X REMOTE: N/A LIGHT SOURCE: Flashlight  
 SURFACE CONDITION / PREPARATION: As Manufactured RESOLUTION CARD: X  
 EXAMINATION EQUIPMENT: Light Meter #187712-A&C Flashlight

COATINGS INDICATION TYPE:					
FLAKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	DISTORTION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
BLISTERING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>
PEELING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	PITTING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISCOLORATION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CORROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISTRESS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	ARC STRIKES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
CRACKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	GOUGES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DEFECTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input checked="" type="radio"/> N/A <input type="radio"/>

GASKETS AND SEALS INDICATION TYPE:					
WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>	TEARS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	SURFACE CRACKS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
EROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input checked="" type="radio"/> N/A <input type="radio"/>

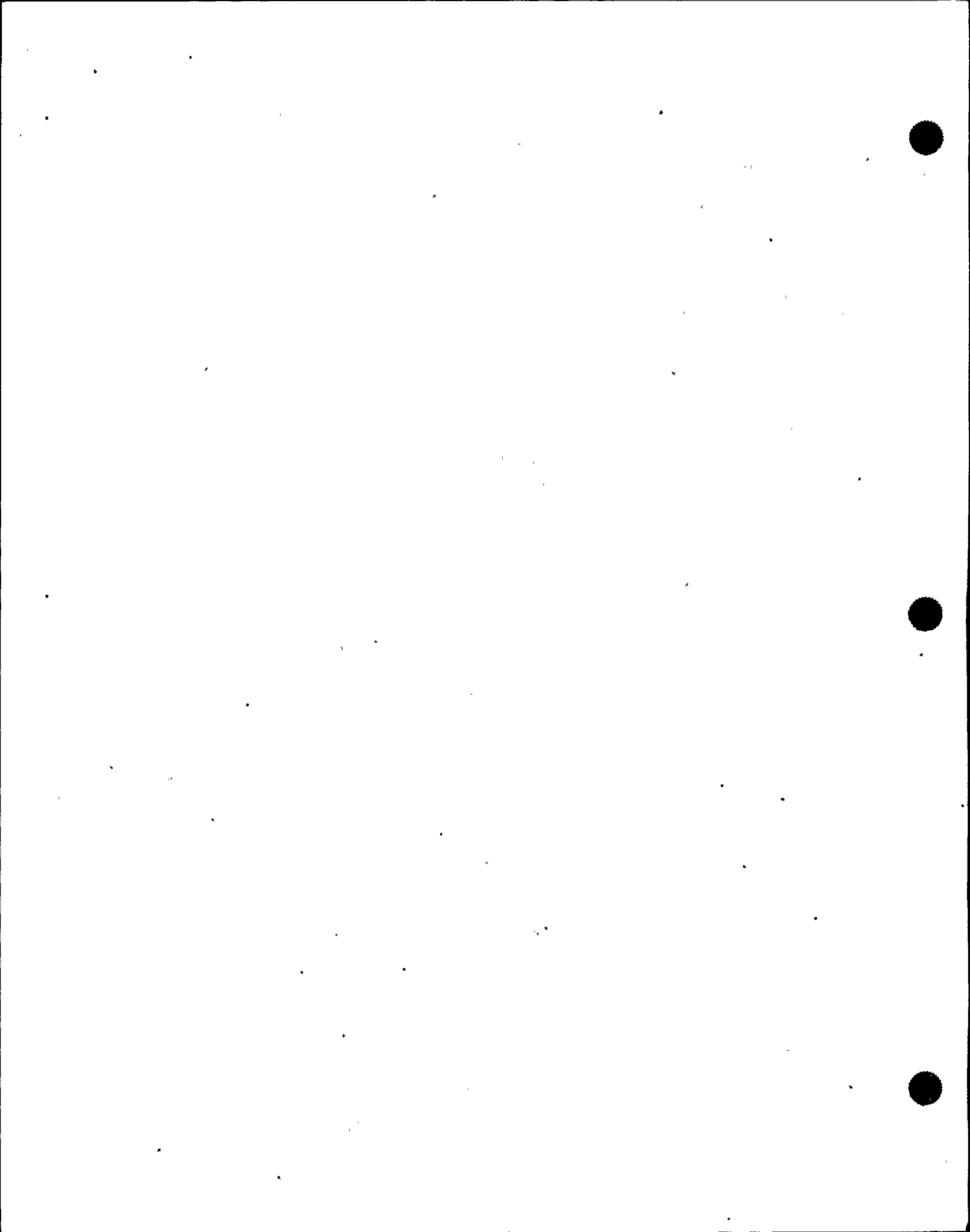
**INDICATION DETAILS AND COMMENTS:**  
 Inspected inner & outer CRD Hatch Gaskets - both Gaskets are acceptable. Flashlight illumination before examination was verified to be 83 FC @ 4 feet. Post Examination illumination was verified to be 80 FC @ 4 feet. Both illumination verifications were performed using ARDROX Light Meter S/N 187712 A&C.  
 EDPM Rubber Presray 1/2" X 7/16" X 10' 2 7/32". Gasket Mark: 578-3. EDPM Rubber Presray 1/2" X 7/16" X 9' 9 1/2". Gasket Mark: 578-4.

SUPPLEMENTAL DATA: SKETCH: No PHOTO: No VIDEO TAPE: No OTHER: No

DISPOSITION: ACCEPTABLE  REJECTABLE   
 COMMENTS: \_\_\_\_\_

EXAMINER: <u>Leonard A. Levanda</u>	REVIEWED BY: <u>Robert T. Zwick</u>	APPROVED BY: _____
LEVEL: <u>II</u> DATE: <u>6/15/98</u>	LEVEL: <u>III</u> DATE: <u>5/15/98</u>	LEVEL: _____ DATE: _____
SUPPLEMENTAL DATA ATTACHED: Yes <input type="radio"/> No <input checked="" type="radio"/>		
REVIEWED & RECEIVED: _____ DATE: _____		

Robert T. Zwick 5/16/98  
 AUTH. NUCLEAR INSERVICE INSP. DATE



# VISUAL EXAMINATION DATA

## COATINGS AND GASKETS

SSES UNIT #: 1      SYSTEM: 59      PROCEDURE: NVT-3      REV: 2  
 CODE: ASME XI 92 W/92A      CLASS: MC      WA #: H70244      NDE RPT#: ISI-98-540

ACCEPTANCE STANDARD: ASME XI 92 W/92A      DRAWING/ISO: N/A      REV: N/A  
 COMPONENT: X003  
 MATERIAL: Silicone Rubber      AREA: 26      ELEVATION: 818

SYSTEM OPERATIONAL: \_\_\_\_\_ SHUTDOWN: X      STARTUP: \_\_\_\_\_

EXAMINATION INFORMATION DIRECT: X      REMOTE: \_\_\_\_\_      LIGHT SOURCE: Flashlight  
 SURFACE CONDITION / PREPARATION: Clean/As Found      RESOLUTION CARD: X  
 EXAMINATION EQUIPMENT: Flashlight, Radiometer Model DLM-1000, S/N 187712 A&C

**COATINGS**

INDICATION TYPE:

FLAKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	DISTORTION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
BLISTERING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>
PEELING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	PITTING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISCOLORATION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CORROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DISTRESS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	ARC STRIKES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
CRACKING	Yes <input type="radio"/>	No <input checked="" type="radio"/>	GOUGES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DENTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input type="radio"/> N/A <input checked="" type="radio"/>

*NA*

**GASKETS AND SEALS**

INDICATION TYPE:

WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>	TEARS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	SURFACE CRACKS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
EROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER	Yes <input type="radio"/>	No <input type="radio"/> N/A <input checked="" type="radio"/>

**INDICATION DETAILS AND COMMENTS:**

Adequate lighting was verified to be 58 foot candles at 4 feet. Before and at completion of inspection. Both gaskets inspected were acceptable.

1st Gasket, on the tag, S.N.75331-3 Trentec is the manufacturer, on the rubber gasket itself reads Presray, PR 8400-201.

2nd Gasket, Trentec S.N. 74759-1 on the tag, on the rubber gasket itself reads Presray, PR 8400-200.

Inspected 2 drywell head gaskets (inner and outer gaskets) size 3/4" X 1/2" X 118' 2 3/8".

SUPPLEMENTAL DATA: SKETCH: No      PHOTO: No      VIDEO TAPE: No      OTHER: No

DISPOSITION:      ACCEPTABLE       REJECTABLE   
 COMMENTS: None

EXAMINER: Stanley Varmon LEVEL: <u>II</u> DATE: <u>5/8/98</u>	REVIEWED BY: <i>John Smith</i> LEVEL: <u>III</u> DATE: <u>5/12/98</u>	APPROVED BY: LEVEL: _____      DATE: _____
EXAMINER: <i>S.E. Van</i> LEVEL: <u>II</u> DATE: <u>5/9/98</u>	SUPPLEMENTAL DATA ATTACHED: Yes <input type="radio"/> No <input checked="" type="radio"/>	
REVIEWED & ACCEPTED FACTORY MUTUAL		

# VISUAL EXAMINATION DATA

## COATINGS AND GASKETS

SSES UNIT#: 2	SYSTEM: 59	PROCEDURE: NVT- 3	REV. 1
CODE: ASME sec. XI '92		CLASS: MC	WA#: H60490
NDE RPT #: ISI-98-304			
ACCEPTANCE STANDARD: IWE 3000	DRAWING/ISO: N/A REV		
COMPONENT: SUPP. Pool Hatch X200 B Gaskets			
MATERIAL: EPDM Rubber (2)	AREA: 30	ELEVATION: 683	
SYSTEM: OPERATIONAL	SHUTDOWN X	STARTUP	
EXAMINATION INFORMATION: DIRECT X	REMOTE	LIGHT SOURCE	FlashLight
SURFACE CONDITION/PREPARATION <u>new Gaskets in Place</u>			
EXAMINATION EQUIPMENT <u>FlashLight (3)</u>			
OPERABILITY TEST PERFORMED YES/NO	No	OPERABILITY TEST EXAM #	N/A

### COATINGS INDICATION TYPE:

FLAKING	YES	NO		DISTORTION	YES	NO	
BLISTERING	YES	NO		WEAR	YES	NO	
PEELING	YES	NO		PITTING	YES	NO	
DISCOLORATION	YES	NO		CORROSION	YES	NO	
DISTRESS	YES	NO		ARC STRIKES	YES	NO	
CRACKING	YES	NO		GOUGES	YES	NO	
DENTS	YES	NO		OTHER			

*N/A 4-7-98*

### GASKETS AND SEALS INDICATION TYPE:

WEAR	YES	NO	X	TEARS	YES	NO	X
DAMAGE	YES	NO	X	SURFACE CRACKS	YES	NO	X
EROSION	YES	NO	X	OTHER	Proper installation Acceptable		

INDICATION DETAILS AND COMMENTS: ① including '92 Addendum to class MC.  
 ② Refer to ISI Vt-3 inspection report # ISI-98-179 note ③ for Gasket size; Part nos.; serial nos.; etc AS PART of pre-installation inspection.  
 ③ Performed white light qualification of flashLight prior to inspection using light meter serial number 187712-A w/cal. due date: 8-9-98. Light meter registered 219 Foot candles at 4'. Performed post qualification of same flashLight using above listed light meter with 330 foot candles registered at 4'. GASKET INSPECTION performed with light source at ≤ 12" & visually ≤ 24" from surface.

SUPPLEMENTAL DATA: SKETCH NO PHOTO NO VIDEO TAPE NO OTHER NO  
 DISPOSITION: ACCEPTABLE  REJECTABLE  COMMENTS:

EXAMINER: <i>Robert Shultz</i>	REVIEWED BY: <i>Walter T. Dyer</i>	ACCEPTED BY: <i>[Signature]</i>
LEVEL: II DATE: 4-7-98	LEVEL: III DATE: 4-9-98	DATE: 4-9-98
EXAMINER:	SUPPLEMENTAL DATA ATTACHED:	PAGE
LEVEL: DATE:	YES NO <input checked="" type="checkbox"/>	1 OF

# VISUAL EXAMINATION DATA

## COATINGS AND GASKETS

SSSES UNIT#: <u>2</u>	SYSTEM: <u>59</u>	PROCEDURE: <u>NVT-3</u>	REV. <u>1</u>
CODE: <u>ASME Sec. XI '92</u>	CLASS: <u>MC</u>	WA#: <u>H60490</u>	NDE RPT #: <u>ISI-98-279</u>
ACCEPTANCE STANDARD: <u>IWE 3000</u>		DRAWING/ISO: <u>N/A</u>	REV
COMPONENT: <u>Supp. Pool Hatch X200B Gaskets</u>			
MATERIAL: <u>EPDM Rubber (3)</u>	AREA: <u>(1) N/A</u>	ELEVATION: <u>(1) N/A</u>	
SYSTEM:	OPERATIONAL	SHUTDOWN <u>X</u>	STARTUP
EXAMINATION INFORMATION:	DIRECT <u>X</u>	REMOTE	LIGHT SOURCE <u>FlashLight (2)</u>
SURFACE CONDITION/PREPARATION	<u>NEW</u>		
EXAMINATION EQUIPMENT	<u>FlashLight (2)</u>		
OPERABILITY TEST PERFORMED YES/NO	<u>No</u>	OPERABILITY TEST EXAM #	<u>N/A</u>

COATINGS			
INDICATION TYPE:			
FLAKING	YES <input type="checkbox"/>	NO <input type="checkbox"/>	DISTORTION
BLISTERING	YES <input type="checkbox"/>	NO <input type="checkbox"/>	WEAR
PEELING	YES <input type="checkbox"/>	NO <input type="checkbox"/>	BITTING
DISCOLORATION	YES <input type="checkbox"/>	NO <input type="checkbox"/>	CORROSION
DISTRESS	YES <input type="checkbox"/>	NO <input type="checkbox"/>	ARC STRIKES
CRACKING	YES <input type="checkbox"/>	NO <input type="checkbox"/>	GOUGES
DENTS	YES <input type="checkbox"/>	NO <input type="checkbox"/>	OTHER

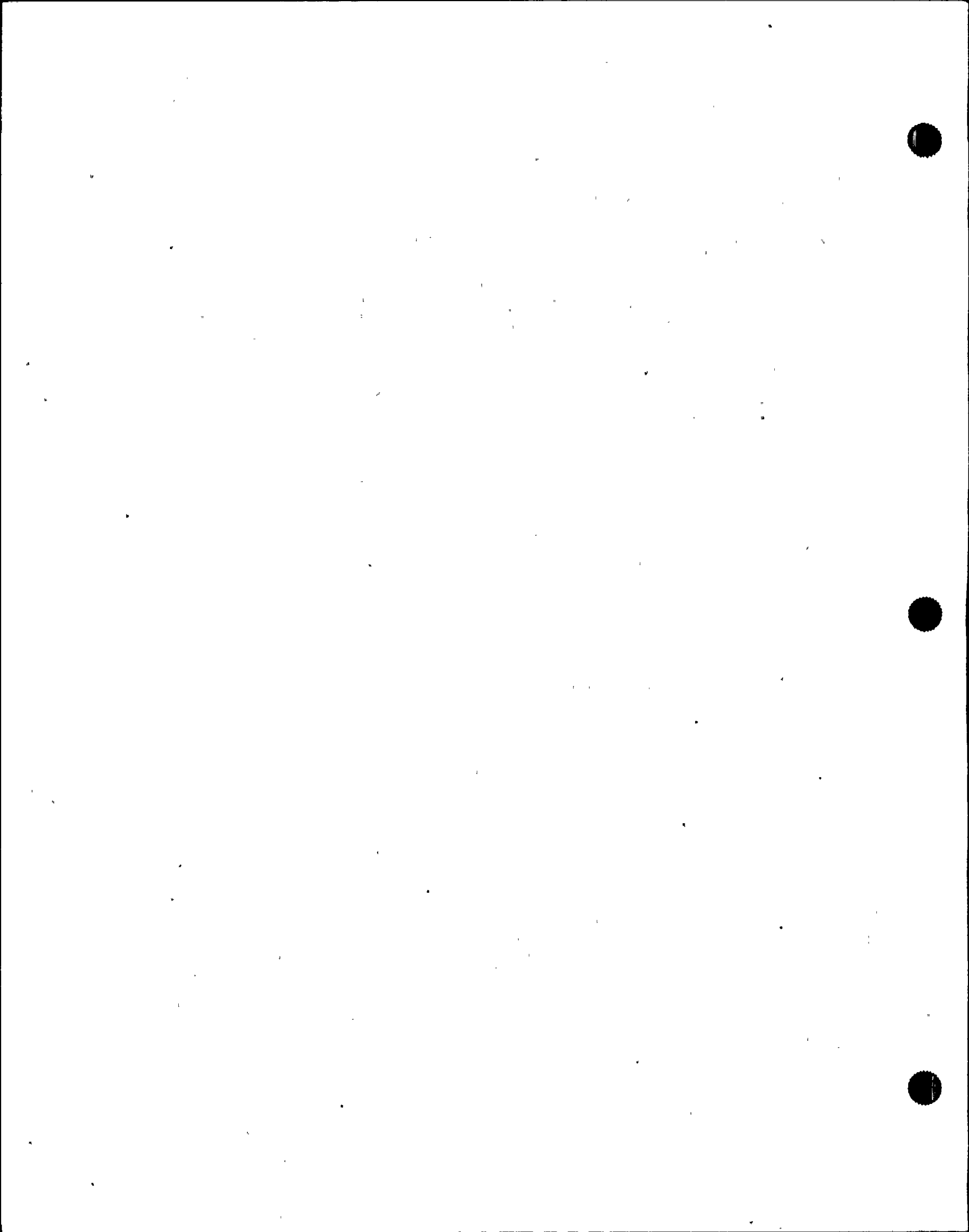
GASKETS AND SEALS			
INDICATION TYPE:			
WEAR	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	TEARS
DAMAGE	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	SURFACE CRACKS
EROSION	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	OTHER

INDICATION DETAILS AND COMMENTS: (1) Preliminary inspection prior to installation.  
(2) 50 footcandles of light achieved using new flashlight with new 'D' (2) cell batteries and holding flashlight 6" away from surface.  
\* '92 Addendum to class MC.  
(3) Gaskets: 1/2" x 7/16" x 19' 7 1/32" and 1/2" x 7/16" x 19' 2 1/32"; cat. nos. 54856 & 54857; mfr: PresRay  
(A) 19' 7 1/32": PART NO. 8400-100; s/n 75580-3 Batch 163; Po# 7-18754-1; service life terminates: 3Q 2002, shelf life: 3Q 99 cure date: 3Q 97  
(B) 19' 2 1/32": PART NO: 8400-101; s/n 63297; Po# 2-56218-1; cure date: 1Q 93

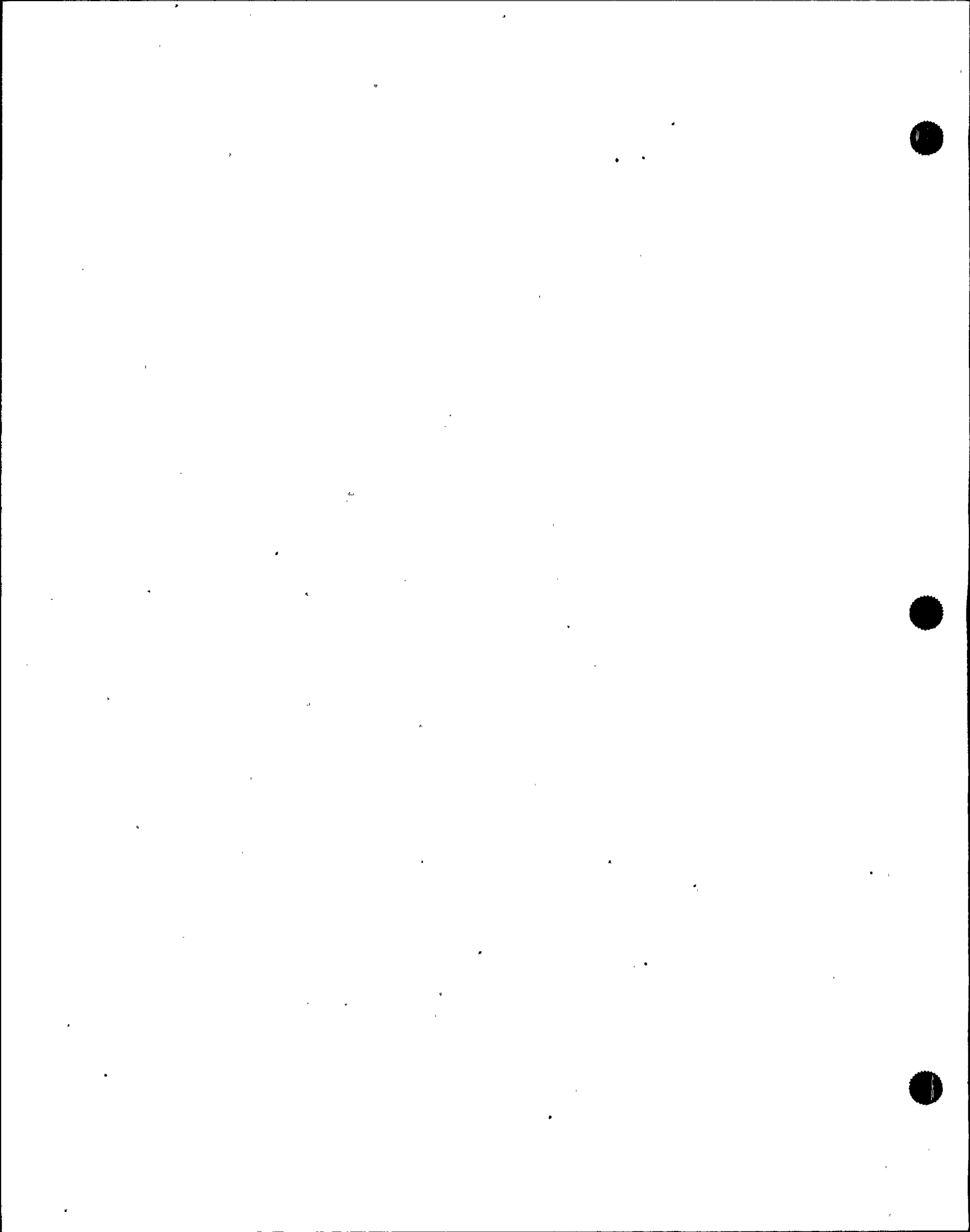
SUPPLEMENTAL DATA: SKETCH NO PHOTO NO VIDEO TAPE NO OTHER NO

DISPOSITION: ACCEPTABLE  REJECTABLE  COMMENTS: \_\_\_\_\_

EXAMINER: <u>Ruben Shultz</u>	REVIEWED BY: <u>Walter J. Dwyer</u>	ACCEPTED BY: <u>[Signature]</u>
LEVEL: <u>II</u> DATE: <u>4-4-98</u>	LEVEL: <u>III</u> DATE: <u>4-9-98</u>	DATE: <u>4-9-98</u>
EXAMINER:	SUPPLEMENTAL DATA ATTACHED:	DATE: <u>07/09/98</u>
LEVEL: _____ DATE: _____	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	PAGE: <u>1</u> OF <u>6</u>



**APPENDIX G**  
**CORRECTIONS**





The following examinations were omitted from the U1-9RIO.  
The examinations were performed as scheduled, and are  
presented here as a correction.

not in IZZ summary

# VISUAL EXAMINATION DATA

## PUMPS AND VALVES

SSES UNIT #: 1 SYSTEM: 52 PROCEDURE: NVT-3 REV. 1

CODE: ASME XI (B) CLASS: 1 WA #: H50220 NDE RPT #: 96-412

ACCEPTANCE STANDARD: NVT-3 REV 1 DRAWING/ISO: NA REV. NA  
COMPONENT: HV 155 F003  
MATERIAL: C/S AREA: 2B ELEVATION: 709

SYSTEM: OPERATIONAL \_\_\_\_\_ SHUTDOWN X STARTUP \_\_\_\_\_

EXAMINATION INFORMATION: DIRECT X REMOTE \_\_\_\_\_ LIGHT SOURCE FLASHLIGHT  
ADEQUATE ILLUMINATION VERIFIED USING AN 18% NEUTRAL GRAY CARD: YES X NO \_\_\_\_\_  
SURFACE CONDITION/PREPARATION AS FOUND  
EXAMINATION EQUIPMENT MIRROR  
OPERABILITY TEST PERFORMED YES (NO) OPERABILITY TEST EXAM # NA

INDICATION TYPE:		YES	NO	YES	NO
INSULATION DAMAGE	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	GOUGES	YES _____ NO <u>X</u>	
EXTERNAL DAMAGE	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	SCRATCHES/GALLING	YES _____ NO <u>X</u>	
LEAKAGE	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	DEFORMATION	YES _____ NO <u>X</u>	
WEAR	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	PITTING	YES _____ NO <u>X</u>	
MISSING PARTS	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	CRACKS	YES _____ NO <u>X</u>	
LOOSE PARTS	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	CORROSION	YES _____ NO <u>X</u>	
FOREIGN MATERIAL	YES _____ NO <u>X</u>	YES _____ NO <u>X</u>	OTHER (SEE COMMENTS)	YES _____ NO <u>X</u>	

INDICATION DETAILS AND COMMENTS: 10" WEDGE GATE

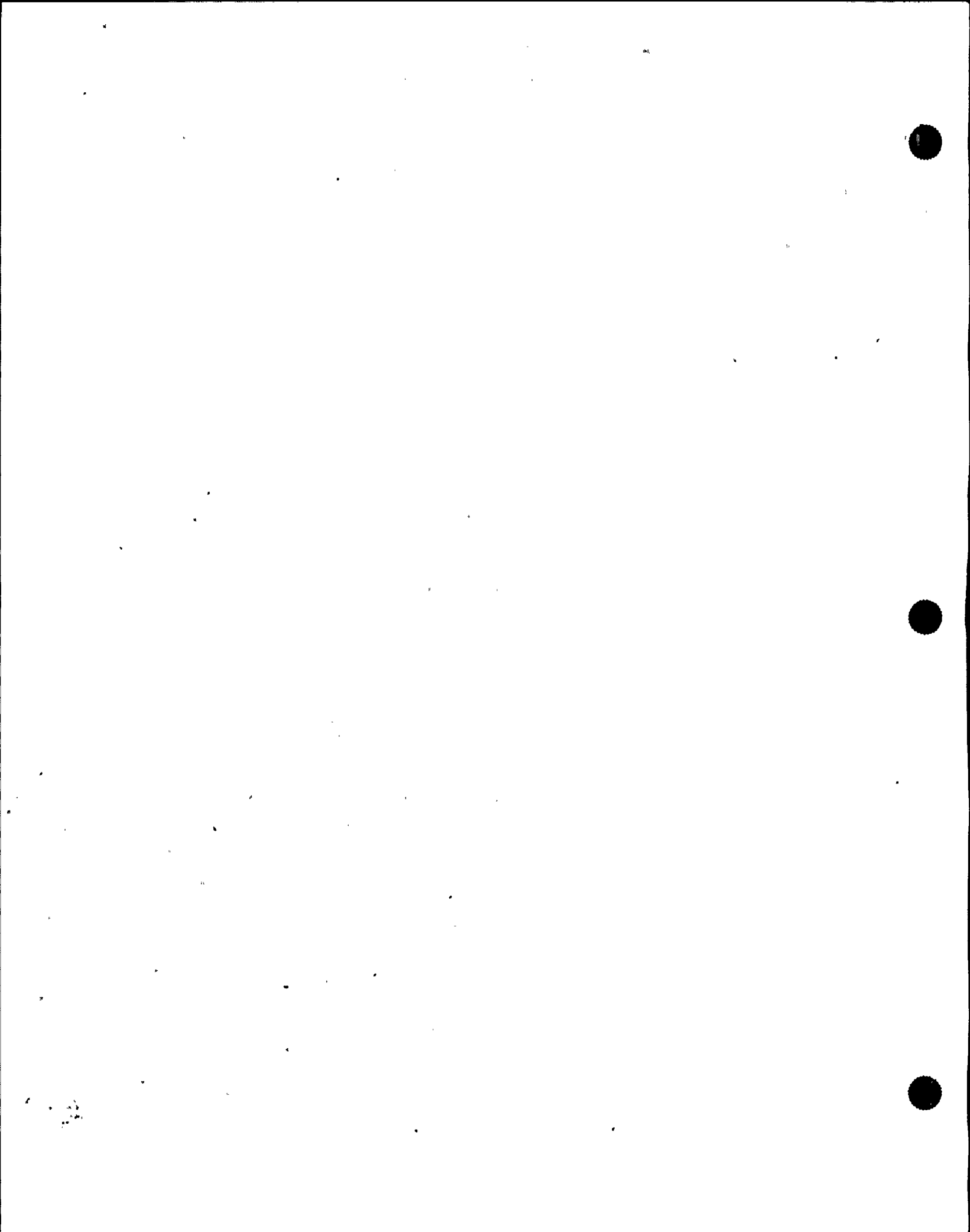
REVIEWED & ACCEPTED  
FACTORY MUTUAL

W.R. Reynolds 9-20-96  
AUTH. NUCLEAR SERVICE INSP. DATE

SUPPLEMENTAL DATA: SKETCH NA PHOTO NA VIDEO TAPE NA OTHER NA

DISPOSITION: ACCEPTABLE X REJECTABLE \_\_\_\_\_ COMMENTS: \_\_\_\_\_

EXAMINER: <u>[Signature]</u>	REVIEWED BY: <u>[Signature]</u>	ACCEPTED BY: _____
LEVEL: <u>II</u> DATE: <u>9-19-96</u>	LEVEL: <u>III</u> DATE: <u>9/20/96</u>	DATE: _____
EXAMINER: _____	SUPPLEMENTAL DATA ATTACHED: _____	PAGE: _____ OF _____
LEVEL: _____ DATE: _____	YES _____ NO <u>X</u>	



# VISUAL EXAMINATION DATA

## PUMPS AND VALVES

SSES UNIT #: 1      SYSTEM: 45A      PROCEDURE: NVT-3      REV: 1

CODE ASME SEC XI      CLASS: N/A      WA # P52346      NDE RPT#: ISI-415-96  
1989

ACCEPTANCE STANDARD: ASME SEC XI 1989      DRAWING/ISO: FF110110 (P11AC-27)      REV: 10  
 COMPONENT: HV14107B (24" CHECK VALVE)  
 MATERIAL: BODY SA-352-LCB/STEM A276-410      AREA: 25      ELEVATION: 749

SYSTEM OPERATIONAL: N/A      SHUTDOWN: X      STARTUP: N/A

EXAMINATION INFORMATION DIRECT: X      REMOTE: N/A      LIGHT SOURCE: FLASHLIGHT  
 ADEQUATE ILLUMINATION VERIFIED USING AN 18% NEUTRAL GRAY CARD:      Yes       No   
 SURFACE CONDITION / PREPARATION: AS-FOUND-NORMAL  
 EXAMINATION EQUIPMENT: FLASHLIGHT, INSPECTION MIRROR  
 OPERABILITY TEST PERFORMED:       OPERABILITY TEST EXAM #: N/A

INDICATION TYPE:			GOUGES		
INSULATION DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	GOUGES	Yes <input type="radio"/>	No <input checked="" type="radio"/>
EXTERNAL DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	SCRATCHES/GALLING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
LEAKAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	DEFORMATION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
WEAR	Yes <input checked="" type="radio"/>	No <input type="radio"/>	PITTING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
MISSING PARTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CRACKS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
LOOSE PARTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CORROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
FOREIGN MATERIAL	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER (SEE COMMENTS)	Yes <input type="radio"/>	No <input checked="" type="radio"/>

INDICATION DETAILS AND COMMENTS:  
 \*MINOR WEAR ON HINGE PIN FROM HINGE IN AREA OF INDICATOR SHAFT.  
 NO OTHER DISCREPANCIES WERE FOUND  
 MFR. ANCHOR/DARLING VALVE CO.  
 EXAM CATEGORY: BM2

REVIEWED & ACCEPTED  
 FACTORY MUTUAL

W.T. Rogerson      9-21-96  
AUTH. NUCLEAR SERVICE INSP.      DATE

SUPPLEMENTAL DATA: SKETCH: No      PHOTO: No      VIDEO TAPE: No      OTHER: No

DISPOSITION:      ACCEPTABLE       REJECTABLE   
 COMMENTS: N/A

EXAMINER: RICHARD HARBISON <i>Richard Harbison</i>	REVIEWED BY: <i>W. T. Rogerson</i>	APPROVED BY:
LEVEL: <u>II</u> DATE: <u>9/2/96</u>	LEVEL: <u>III</u> DATE: <u>9/21/96</u>	LEVEL:      DATE:
EXAMINER: <u>N/A</u>	SUPPLEMENTAL DATA ATTACHED: Yes <input type="radio"/> No <input checked="" type="radio"/>	
LEVEL: <u>N/A</u> DATE:	Page <u>  </u> of <u>  </u>	



[Faint, illegible text scattered across the page, possibly bleed-through from the reverse side. Some faint characters like '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20', '21', '22', '23', '24', '25', '26', '27', '28', '29', '30', '31', '32', '33', '34', '35', '36', '37', '38', '39', '40', '41', '42', '43', '44', '45', '46', '47', '48', '49', '50', '51', '52', '53', '54', '55', '56', '57', '58', '59', '60', '61', '62', '63', '64', '65', '66', '67', '68', '69', '70', '71', '72', '73', '74', '75', '76', '77', '78', '79', '80', '81', '82', '83', '84', '85', '86', '87', '88', '89', '90', '91', '92', '93', '94', '95', '96', '97', '98', '99', '100' are visible.]

# VISUAL EXAMINATION DATA

## PUMPS AND VALVES

SSES UNIT #: <u>1</u>		SYSTEM: <u>83</u>		PROCEDURE: <u>NVT-3</u>		REV: <u>1</u>	
CODE	ASME SEC XI <u>1989</u>	CLASS: <u>1</u>	WA # <u>H40100</u>	NDE RPT#: <u>ISI-431-96</u>			
ACCEPTANCE STANDARD: <u>ASME SEC XI 1989</u>				DRAWING/ISO: <u>VNB-B21-1</u>		REV: <u>2F12</u>	
COMPONENT: <u>HV141F022D</u>				AREA: <u>26</u>		ELEVATION: <u>738</u>	
MATERIAL: <u>SA216-WCB</u>				SYSTEM OPERATIONAL: <u>N/A</u>		SHUTDOWN: <u>X</u>	
				STARTUP: <u>N/A</u>			
EXAMINATION INFORMATION DIRECT: <u>X</u>				REMOTE: <u>N/A</u>		LIGHT SOURCE: <u>FLASHLIGHT</u>	
ADEQUATE ILLUMINATION VERIFIED USING AN 18% NEUTRAL GRAY CARD: <u>Yes</u> <input checked="" type="radio"/> <u>No</u> <input type="radio"/>							
SURFACE CONDITION / PREPARATION: <u>AS FOUND-SEATS CLEANED WITH SCOTCH BRITE</u>							
EXAMINATION EQUIPMENT: <u>MIRROR AND FLASHLIGHT</u>							
OPERABILITY TEST PERFORMED: <input type="radio"/>				OPERABILITY TEST EXAM #: <u>N/A</u>			

INDICATION TYPE:					
INSULATION DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	GOUGES	Yes <input checked="" type="radio"/>	No <input type="radio"/>
EXTERNAL DAMAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	SCRATCHES/GALLING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
LEARAGE	Yes <input type="radio"/>	No <input checked="" type="radio"/>	DEFORMATION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
WEAR	Yes <input type="radio"/>	No <input checked="" type="radio"/>	PITTING	Yes <input type="radio"/>	No <input checked="" type="radio"/>
MISSING PARTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CRACKS	Yes <input type="radio"/>	No <input checked="" type="radio"/>
LOOSE PARTS	Yes <input type="radio"/>	No <input checked="" type="radio"/>	CORROSION	Yes <input type="radio"/>	No <input checked="" type="radio"/>
FOREIGN MATERIAL	Yes <input type="radio"/>	No <input checked="" type="radio"/>	OTHER (SEE COMMENTS)	Yes <input type="radio"/>	No <input checked="" type="radio"/>

INDICATION DETAILS AND COMMENTS:  
 THERE IS AN AREA ON THE BACK SEAT ON THE BONNET ABOUT 1/2" WIDE WITH STEAM GOUGES

*STEAM GOUGES WILL BE REMOVED AS PART OF THE VALVE REWORK WA: H40100*

*Mike D... 9/23/96*

REVIEWED & ACCEPTED  
FACTORY MUTUAL

*Mike D...*

AUTH. NUCLEAR INSERVICE INSP.      DATE 9-25-96

SUPPLEMENTAL DATA: SKETCH: No      PHOTO: No      VIDEO TAPE: No      OTHER: No

DISPOSITION:      ACCEPTABLE       REJECTABLE

COMMENTS: N/A

EXAMINER: <u>JOHN B. LEFFLER</u> <i>John B. Leffler</i>	REVIEWED BY: <i>Mike D...</i>	APPROVED BY:
LEVEL: <u>II</u> DATE: <u>9/21/96</u>	LEVEL: <u>III</u> DATE: <u>9/23/96</u>	LEVEL:      DATE:
EXAMINER: <u>N/A</u>	SUPPLEMENTAL DATA ATTACHED: Yes <input type="radio"/> No <input checked="" type="radio"/>	
LEVEL: <u>N/A</u> DATE:	Page      of	

