

# APPENDIX D

ASME REPAIRS AND REPLACEMENTS  
NIS-2 FORMS

## **UNIT 1 TWELFTH REFUELING AND INSPECTION OUTAGE** **MAINTENANCE CODE REPAIR AND REPLACEMENT**

### **1.0      INTRODUCTION**

This summary identifies the work performed on ASME Section XI, classes 1, 2, 3 and MC of ASME Section VIII items for which Maintenance has NIS-2 responsibility reported in Section 3.1. Nation Board Inspection Code Repair items for which Maintenance has R-1 responsibility is also included in Section 4.0. The majority of this work was performed during the Unit 1 Twelfth Refueling and Inspection Outage.

### **2.0      CODE COMPLIANCE SUMMARY**

All work on ASME Section XI, classes 1, 2, 3 and MC, meets the requirements of IWA-4000 (Repair Procedures) and IWA-7000 (Replacements) of ASME Section XI, 1989 Edition, No Addenda. All work on containment meets the requirements of IWA-4000 and IWA-7000 of ASME Section XI, 1992 Edition through 1992 Addenda of IWE and IWL.

### **3.0      REPAIR AND REPLACEMENT SUMMARY**

Work in this category is comprised of Work Authorization of Section XI Repairs and Replacements.

### **3.1      SECTION XI REPAIRS AND REPLACEMENTS**

<b><u>WAWO No</u></b>	<b><u>522 FORM NO.</u></b>	<b><u>DESCRIPTION OF WORK</u></b>
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#### **SYSTEM NO. 016A, ASME CLASS III**

329222	01-016-001	112017 & 112021, Prefabrication activities associated with valve replacement
241483	01-016-002	112017 & 112021, Installation activities associated with valve replacement

#### **SYSTEM NO. 024A, ASME CLASS III**

105319	G00-024-0008	034037D, Replaced stem/disc & backseat bushing
103400	00-024-007	0505-D1, Repaired heat exchanger by installing tube plugs
103400	99-024-013	0505-D1, Installed new heat exchanger
103400	99-024-014	0505-D2, Installed new heat exchanger
196556	99-024-015	HRC3-3, Replaced pipe and flange DN STM of 011048
105510	99-024-017	1RV-PI-03438D Repaired stem/disc
105510	99-024-018	2RV-PI-03438D Repaired stem/disc
196360	00-024-001	HRC3-3, Replaced pipe and flange DS of 011047
196361	00-024-002	HRC3-3, Replaced pipe and flange DS of 011052
196362	00-024-003	HRC3-2, Replaced pipe and flange DS of 011045
196559	00-024-004	HRC3-2, Replaced pipe and flange DS of 011046
196570	00-024-005	HRC3-2, Replaced pipe and flange DS of 011051
232160	00-024-006	034006B, Repaired stem/disc
241584	00-024-011	0E505E1 & 0E505E2, Replaced heat exchanger bolting
196362	00-024-012	011045, Repair; Tack welded disc during seat replacement

261376	00-024-013	OE506B, Replaced heat exchanger bolting
261375	00-024-014	OE507B, Weld repaired heat exchanger
218215	01-024-001	034009B, Repaired stem/disc
261374	01-024-002	OE505B1, Replaced heat exchanger bolting
196569	01-024-003	HRC3-2, Replaced pipe and flange DS of 011044
196554	01-024-004	HRC3-2, Replaced pipe and flange DS of 011050
196561	01-024-005	HRC3-1, Replaced pipe and flange DS of 011042
315400	01-024-006	011050, Replaced with SS Valve
315401	01-024-007	011042, Replaced with SS Valve
334776	01-024-009	011041, Replaced with SS Valve
334786	01-024-010	011049, Replaced with SS Valve
196356	01-024-011	HRC3-1, Replaced pipe and flange DS of 011049
196359	01-024-012	HRC3-1, Replaced pipe and flange DS of 011041
292830	01-024-013	034009C, Repaired stem/disc
285447	01-024-014	OE507C, Repaired HT EXCH by plugs and replaced bolting
285448	01-024-015	OE506C, Replaced heat exchanger bolting
285446	01-024-016	OE505C1 & OE505C2, Replaced heat exchanger bolting
328075	01-024-017	OE507A, Replaced heat exchanger bolting
358187	01-024-018	OE506A, Replaced heat exchanger bolting
328076	01-024-019	OE505A1, Replaced heat exchanger bolting
328076	01-024-020	OE505A2, Replaced heat exchanger bolting
328076	01-024-021	KS V 91-15AA, Replaced skid mounted pipe bolting
367274	01-024-024	TCV-03412E, Repaired seat and replaced bolting

**SYSTEM NO. 0300, ASME CLASS III**

222463	G01-030-038	086118, Repaired valve disc by welding
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**SYSTEM NO. 054A, ASME CLASS III**

196553	00-054-009	HRC3302-1 & 2, Replaced valve and associated piping
291238	00-054-009	DG E Engine S/N 501 skid mounted pipe, weld repair flanges
291236	00-054-010	DG E Engine S/N 502 skid mounted pipe, weld repair flanges
241584	00-054-011	DG E Engine S/N 505 skid mounted pipe, weld repair flanges
241584	00-054-012	DG E Engine skid mounted pipe supports, replaced bolting
241584	00-054-013	DG E Engine skid mounted pipe supports, tack welded new locking plates
293981	00-054-014	DG E Engine, replaced skid mounted flex joint S/N # 6

**SYSTEM NO. 054B, ASME CLASS III**

326728	01-054-004	LE01201A2, Replaced level probe
342852	01-054-006	Replaced (4) spray array nozzles

**SYSTEM NO. 072, ASME CLASS III**

266471	00-072-001	OE136, performed seal welding of head & bolting replacement
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**SYSTEM NO. 125A, ASME CLASS II**

266726	01-125-001	126018, 126029 & SPHCB111-H2001; Replaced valves and relocated support
226726	02-125-001	SPHCB111-H11, Repaired gouge in support steel

**SYSTEM NO. 134D, ASME CLASS III**

317157	01-134-010	1E231B, Replaced flex hoses
317157	02-134-001	1E231B, Repaired heat exchanger by welding
317159	02-134-002	1E231D, Repaired heat exchanger by welding

**SYSTEM NO. 134E, ASME CLASS III**

285445	01-134-001	1E229A, Replaced flex hose
339721	01-134-010	1E229B, Repaired heat exchanger by welding

**SYSTEM NO. 134F, ASME CLASS III**

198486	00-134-008	1E228A, Repaired heat exchanger by grinding
198486	00-134-016	1E228A, Repaired heat exchanger by welding
198487	00-134-015	1E228B, Repaired heat exchanger by grinding
198487	00-134-009	1E228B, Repaired heat exchanger by welding

**SYSTEM NO. 134G, ASME CLASS III**

237369	01-134-008	1E230B, Replaced flex hose
339726	01-134-011	1E230A, Replaced flex hose & Repaired heat exchanger by welding

**SYSTEM NO. 135B, ASME CLASS III**

103677	01-135-001	153009B, Replaced valve with new RIE design valve
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**SYSTEM NO. 145A, ASME CLASS II**

389668	02-145-001	141F039B, Replaced valve disc
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**SYSTEM NO. 149A, ASME CLASS II**

276541	00-149-021	JD-27-3-5C, PSH-E11-1N022A, Replaced Instrument tubing
259680	01-149-001	JD-27-3-5C, PSH-E11-1N021A, Replaced Instrument tubing
258078	02-149-001	151F046C, Replaced valve disc.

**SYSTEM NO. 149B, ASME CLASS III**

312793	02-149-003	PSV11213A, Repaired valve base and replaced valve disc
310832	02-149-007	1E205B, Replaced heat exchanger bolting.

**SYSTEM NO. 149E, ASME CLASS II**

252469	02-149-002	HV151F021B, Replaced valve disc
390413	02-149-005	HV151F021B, Machined valve disc for fit-up



**SYSTEM NO. 149G, ASME CLASS I**

346013	02-149-006	HV151F122A, Replace valve stem/disc
312790	02-149-008	PSV151F126, Machined valve base and replaced spring & name plate

**SYSTEM NO. 150A, ASME CLASS II**

388651	02-150-001	1E203, Repaired pump by welding
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**SYSTEM NO. 150B, ASME CLASS II**

389968	02-150-002	DBB109-H8, Installation of Lubrite plate and stops
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**SYSTEM NO. 151A, ASME CLASS II**

341092	01-152-002	152010, Replaced valve stem/disc
245151	02-151-001	152005, Replaced valve disc

**SYSTEM NO. 152A, ASME CLASS II**

352081	02-152-001	155F019, Replaced valve disc
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**SYSTEM NO. 152B, ASME CLASS I**

389672	02-152-002	HV155F003, Replaced valve disc and weld repaired valve guide
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**SYSTEM NO. 152B, ASME CLASS II**

261756	00-152-002	155019 & 155020, Replaced valves with new
261367	00-152-003	1RV-LSH-1N014, Replaced valve stem/disc and backseat bushing

**SYSTEM NO. 153B, ASME CLASS II**

307880	01-153-001	HV-143F004A, Replaced inlet fitting and trigger assembly
302962	01-153-002	HV-143F004B, Replaced inlet fitting and trigger assembly
S84029	02-153-001	1P208A, Replaced Pump Plunger
S84030	02-153-002	1P208B, Replaced Pump Plunger
102216	02-153-003	1P208A, Replaced Pump Plunger

**SYSTEM NO. 155B, ASME CLASS II**

220241	00-151-002	HCU-4239, Replaced nitrogen accumulator
203030	00-155-006	HCU-3451, Replaced nitrogen accumulator
229501	00-155-008	HCU-0227, Replaced nitrogen accumulator
229503	00-155-009	HCU-1839, Replaced nitrogen accumulator
229504	00-155-010	HCU-2619, Replaced nitrogen accumulator

259805	00-155-013	HCU-3811, Replaced nitrogen accumulator
292502	01-155-001	HCU-4255, Replaced nitrogen accumulator
344435	01-155-002	HCU-3411, Replaced nitrogen accumulator
383157	02-155-001	HCU-4631, 147101, Replaced valve disc
282920	02-155-004	HCU-4219, 147101, Replaced valve disc
248235	02-153-005	HCU-4611, 147101, Replaced valve disc
248236	02-153-006	HCU-0243, 147101, Replaced valve disc and bonnet
346326	02-155-007	HCU-4239, 147101, Replaced valve disc
350228	02-155-008	HCU-5439, 147101, Replaced valve disc
307655	02-155-009	HCU-1419, 147101, Replaced valve disc
307657	02-155-010	HCU-1819, 147101, Replaced valve disc

**SYSTEM NO. 159, ASME CLASS MC**

298585	02-159-002	1X006, Replaced missing bolting
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**SYSTEM NO. 159C, ASME CLASS II**

312787	02-159-001	PSV-15704B1, Replaced damaged bolt
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**SYSTEM NO. 161A, ASME CLASS III**

237156	00-161-014	145042B & 145043B, Replaced valves and associated pipe
237158	00-161-015	145029A, Replaced valve & machined valve body for fit-up
257191	00-161-016	HV-14512B, Replaced valve ball
238691	00-161-017	145029B, Replaced valve ball
104460	00-161-018	SPEBC107-2, Replaced small pipe flange bolting
274122	00-161-019	HV14512B, Replaced valve and installed new ball
284142	00-161-020	HV14512B, Replaced valve & machined valve body for fit-up
222469	00-161-021	145060A, Replaced valve disc
274126	00-161-022	145029B, Replaced valve and replaced ball with new
233547	00-161-023	FV-14566B, Replaced bonnet pipe plug
288839	00-161-024	HV-14507B, Replaced valve and associated pipe
293796	00-161-025	HV-14507A, Replaced valve and associated pipe
293767	00-161-026	145039B, Replaced valve and associated pipe
289931	01-161-001	HV-14528, Replaced valve and associated pipe
358812	02-161-001	HV-14506B, Replaced valve and associated pipe

**SYSTEM NO. 161B, ASME CLASS III**

194059	00-161-001	1P221A, Replaced pump with spare
328635	01-161-002	HV-144F033, Replaced gland plug bushing.

**SYSTEM NO. 162A, ASME CLASS I**

273883	00-162-006	HV141F001, HV141F002 & HV141F005, Prefabrication activities
200499	00-162-007	HV141F001, HV141F002 & HV141F005, Replacement activities
NV1A00110	01-162-002	PSV-141F013B, Repaired valve by machining & replaced disc insert, spindle & Inlet studs

358110	01-162-003	PSV-141F013B, Replaced relief valve & nuts
NV1A00110	01-162-004	PSV-141F013D, Repaired valve by machining and installation of helicoil and Replaced disc insert, spindle & studs
339839	01-162-005	PSV-141F013D, Replaced relief valve & nuts
NV1A00110	01-162-006	PSV-141F013J, Repaired valve by machining & replaced disc insert And spindle
256442	01-162-007	PSV-141F013J, Replaced relief valve & nuts
NV1A00110	01-162-008	PSV-141F013K, Repaired valve by machining & replaced disc insert, spindle And inlet studs
256443	01-162-009	PSV-141F013K, Replaced relief valve & nuts
NV1A00110	01-162-010	PSV-141F013L, Repaired valve by machining & replaced disc insert
256445	01-162-011	PSV-141F013L, Replaced relief valve & nuts
NV1A00110	01-162-012	PSV-141F013N, Repaired valve by machining & replaced disc insert and inlet studs
256447	01-162-013	PSV-141F013N, Replaced relief valve & nuts
NV1A00110	01-162-014	PSV-141F013R, Repaired valve by machining & replaced nozzle, disc insert spindle and inlet studs
339840	01-162-015	PSV-141F013R, Replaced relief valve & nuts
NV1A00110	01-162-016	PSV-141F013S, Repaired valve by machining & replaced disc insert, spindle and inlet studs
358112	01-162-017	PSV-141F013S, Replaced relief valve & nuts
298527	01-162-018	22-39, Replaced control rod drive & bolts
298529	01-162-019	02-39, Replaced control rod drive & bolts
298530	01-162-020	06-43, Replaced control rod drive & bolts
298531	01-162-021	18-11, Replaced control rod drive & bolts
298532	01-162-022	22-19, Replaced control rod drive & bolts
298534	01-162-023	22-31, Replaced control rod drive & bolts
298535	01-162-024	26-15, Replaced control rod drive & bolts
298536	01-162-025	06-31, Replaced control rod drive & bolts
298537	01-162-026	26-35, Replaced control rod drive & bolts
298538	01-162-027	26-51, Replaced control rod drive & bolts
298539	01-162-028	42-59, Replaced control rod drive & bolts
298540	01-162-029	30-15, Replaced control rod drive & bolts
298541	01-162-030	30-47, Replaced control rod drive & bolts
298544	01-162-031	42-39, Replaced control rod drive & bolts
298545	01-162-032	46-23, Replaced control rod drive & bolts
298547	01-162-033	46-31, Replaced control rod drive & bolts
298548	01-162-034	22-15, Replaced control rod drive & bolts
298549	01-162-035	46-39, Replaced control rod drive & bolts
298551	01-162-036	58-19, Replaced control rod drive & bolts
298553	01-162-037	58-23, Replaced control rod drive & bolts
256439	02-162-005	PSV-141F013G, Replaced nuts
356060	02-162-006	DCA-111-2, Replaced flange M1 & M3 bolting

**SYSTEM NO. 164B, ASME CLASS I**

240247	02-164-001	VRR-B31-2, Replaced large pipe flange bolting
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**SYSTEM NO. 164D, ASME CLASS II**

392175	02-164-003	XV143F017A, Replace Valve and associated pipe
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**SYSTEM NO. 169A, ASME CLASS II**

392178	02-169-001	HV16116A1, Machined valve wedge.
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**SYSTEM NO. 183A, ASME CLASS I**

389521	02-183-007	HV141F109, Replaced valve disc
385099	02-183-009	SPDBA116-1, Removed indications by grinding

**SYSTEM NO. 183A, ASME CLASS II**

251333	01-183-002	1RV-PT-10101B & 2RV-PT-10101B Replaced valves & associated pipe
393126	02-183-010	2RV-LSH-10112D/2RV-LSHH-10112D Replaced valve & associated pipe
393126	02-183-011	1RV-LSH-10112D/1RV-LSHH-10112D Replaced valve & associated pipe
388034	02-183-012	HV-10109, Repaired valve by restoring hard-facing

**SYSTEM NO. 183D, ASME CLASS III**

256442	02-183-008	GBC101-16, Replaced large pipe flange bolting
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**SYSTEM NO. 183H, ASME CLASS II**

322448	01-183-001	JD-10-3-1D, Replaced tubing
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**4.0      REPAIR SUMMARY**

Work in this category is comprised of Section VIII Repairs and Replacements in accordance with National Board Inspection Code.

**4.1      NATIONAL INSPECTION BOARD CODE SECTION VIII REPAIRS**

<u>W.A. NO.</u>	<u>522 FORM NO.</u>	<u>DISCRIPTION OF WORK</u>
276571	00-139-001	1F106C, Weld repaired cracked seal weld

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

1. Owner PPL Susquehanna, LLC. Date 05/06/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 1 of 2  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603 WO # 329222 & 241483  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System RHR SERVICE WATER SYSTEM 016A, CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* SEE 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)
1) VALVE	YARWAY	6586	N/A	112017	1976	REPLACED	YES
2) VALVE	ANCHOR DARLING	E660A-1-12	N/A	112017	1999	REPLACEMENT	YES
3) SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SPHRC112-5	1982	REPLACED	YES
4) SMALL PIPE SUBASSEMBLY	PPL	N/A	N/A	SPHRC112-5	2002	REPLACEMENT	NO
5) VALVE	YARWAY	6449	N/A	112021	1976	REPLACED	YES
6) VALVE	ANCHOR DARLING	E660A-1-8	N/A	112021	1999	REPLACEMENT	YES
7) SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SPHRC114-1	1982	REPLACED	YES

7. Description of Work 112017 & 112021, SPHRC112-5 & SPHRC114-1, REPLACEMENT OF VALVES & ASSOC. PIPE
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 SHEETS ARE ATTACHED. CODE OF CONSTRUCTION: ORIGINAL VALVE(S)

Applicable Manufacturer's Data Reports to be attached

SEC III 1974 ED WINTER 1974 ADD. REPLACEMENT VALVES SEC III 1986 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 May 31, 20 02  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10-2-01 to 3-19-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Deftone E. Tilley* Commissions NB8845 AN I B NS Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3, 20 02

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

1. Owner PPL Susquehanna, LLC. Date 05/06/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
WO # 329222 & 241483  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System RHR SERVICE WATER SYSTEM 016A, CLASS III
5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* SEE 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)
8) SMALL PIPE SUBASSEMBLY	PPL	N/A	N/A	SPHRC114-1	2002	REPLACEMENT	NO

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

Pg. 1 of 2

1. Manufactured and certified by 701 First Street, Williamsport, PA 17701  
(name and address of N Certificate Holder)  
Pennsylvania Power & Light Company

2. Manufactured for Two North Ninth Street, Allentown, PA 18101  
(name and address of Purchaser or Owner)  
Susquehanna Station

3. Location of installation 5 miles NE of Berwick on Rte 11, P.O. Box 467, Berwick, PA 18603  
(name and address)

4. Model No., Series No., or Type Valve Drawing W9825189 Rev. A CRN N/A

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

6. Pump or valve Valve Nominal inlet size 1" Outlet size 1"  
(in.) (in.)

7. Material: Body SA216-WCB Bonnet N/A Disk AMS-5387 Bolting N/A

[illegible]

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



## FORM NPV-1 (back)

8. Remarks 1" - 1500# Y-Globe Valve w/10" Tee HandleReference S.O. E-660A-19. Design conditions 2673 psi 680 °F or valve pressure class 1500# (1)  
(pressure) (temperature)10. Cold working pressure 3705 psi at 100°F11. Hydrostatic test 5575 psi. Disk differential test pressure 4076 psi

## CERTIFICATION OF DESIGN

Design Specification certified by Matthew Hober P.E. State PA Reg. no. 20118E  
Design Report certified by T. C. Bartlett P.E. State PA Reg. no. 039036E

## 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. N1712 Expires 4/15/01Date 3/12/99 Name Flowserve Corp. Signed R L Stannett  
(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 ~~of~~ Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 29th 3-15, 19 99, 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 loss of any kind arising from or connected with this inspection.

Date 3-15-99 Signed Charles Young Commissions Pennsylvania 2392  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

P. 03

T-239 P.02/03 F-000

**As Required by the Provisions of the ASME Code, Section III, Division 1**

Pg. 2 of 2

7. Material Body SA216-WCB Bolts N/A Disk AMS-5387 Bolting N/A

This form (100037) may be obtained from the Order Dept., ASME, 31 Law Drive, Box 2300, Fairfield, NJ 07002-2300

P P &amp; L DMG

Fax: 1-610-774-6575

Mar 8 '99 15:40 P.04

Mar-08-99 11:28am From-FLONERVE IMPORT T

+7173274922

T-233 P.03/08 F-050

## FORM NPV-1 (back)

8. Remarks 1" - 1500# Y-Globe Valve w/10" Tee handle  
Reference S.O. P-660A-1

9. Design conditions 2673 psi 680 °F or valve pressure class 1500# (1)  
(pressure) (temperature)

10. Cold working pressure 3705 psi at 100°F

11. Hydrostatic test 5575 psi. Over differential test pressure 4076 psi

## CERTIFICATION OF DESIGN

Design Specification certified by Matthew Hober P.E. State PA Reg. no. 20118E  
 Design Report certified by T. C. Bartlett P.E. State PA Reg. no. 039036E

## 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.

It Certificate of Authorization No. N1722 Expires 4/15/01  
 Date 2/26/99 Name FLONERVE Corp. Signed R. J. Starnett  
(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 DEPARTMENT of PENNSYLVANIA and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 2-19-99 to 2-26-99, 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 2-26-99 Signed Charles Young Commission Pennsylvania 2392  
(Authorized Inspector) (N.B. Encl. accompanies state or prov. and NA.)

(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 PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 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 W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N-416-1 (\*SEE SHEET 9 & 10)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	A0668	N/A	034037D	1977	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	TEZG-B7	N/A	034037D	2000	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	A0668	N/A	034037D	1977	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	034037D	2000	REPLACEMENT	NO
5) INTERCOOLER	JOSEPH OAT	2576E	3253	0E505-D1	1999	REPAIRED	YES
6) INTERCOOLER	PERFEX	841601-7	5665	0E505-D1	1976	REPLACED	YES
7) INTERCOOLER	JOSEPH OAT	2576E	3253	0E505-D1	1999	REPLACEMENT	YES

7. Description of Work SHEET ATTACHED LIST

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 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 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 EP Sealach for Date 7/2, 20 02  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 5/26/00 to 4/21/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Regan III Commissions NB7980 A, N, I, B, NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements  
Date July 2 20 02

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

1. Owner PPL Susquehanna, LLC. Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 10  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603 See Attached List  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
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8) INTERCOOLER	PERFEX	924601-2	6054	0E505-D2	1978	REPLACED	YES
9) INTERCOOLER	JOSEPH OAT	2576F	3254	0E505-D2	1999	REPLACEMENT	YES
10) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-3	1982	REPLACED	YES
11) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-3	2000	REPLACEMENT	NO
12) VALVE	YARWAY	6557	N/A	1RV-PI-03438D	1976	REPAIRED	YES
13) VALVE	YARWAY	5982	N/A	2RV-PI-03438D	1976	REPAIRED	YES
14) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-3	1982	REPLACED	YES
15) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-3	2000	REPLACEMENT	NO
16) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-3	1982	REPLACED	YES
17) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-3	2000	REPLACEMENT	NO
18) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-2	1982	REPLACED	YES

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

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Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
19) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-2	2001	REPLACEMENT	NO
20) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-2	1982	REPAIRED	YES
21) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-2	1982	REPLACED	YES
22) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-2	2001	REPLACEMENT	NO
23) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-2	1982	REPLACED	YES
24) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-2	2001	REPLACEMENT	NO
25) VALVE	YARWAY	A0310	N/A	034006B	1977	REPAIRED	YES
26) INTERCOOLER BOLTING	PERFEX	1129501-2	7103	OE505E1	1984	REPLACED	YES
27) INTERCOOLER BOLTING	PPL	N/A	N/A	OE505E1	2000	REPLACEMENT	NO
28) INTERCOOLER BOLTING	PERFEX	1129501-1	7102	OE505E2	1984	REPLACED	YES
29) INTERCOOLER BOLTING	PPL	N/A	N/A	OE505E2	2000	REPLACEMENT	NO

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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1. Owner PPL Susquehanna, LLC. Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
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2. Plant Susquehanna Steam Electric Station Sheet 4 of 10  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Unit COMMON  
See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
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Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
30) VALVE	MASONEILAN	N00186-17-5	N/A	011045	1978	REPAIRED	YES
31) LUBE OIL COOLER BOLTING	AMERICAN STANDARD	7-20009-06-1	29144	0E506B	1975	REPLACED	YES
32) LUBE OILCOOLER BOLTING	PPL	N/A	N/A	0E506B	2001	REPLACEMENT	NO
33) JACKET WATER COOLER	AMERICAN STANDARD	7-20009-01-2	29141	0E507B	1975	REPAIRED	YES
34) JACKET WATER COOLER BOLTING	AMERICAN STANDARD	7-20009-01-2	29141	0E507B	1975	REPLACED	YES
35) JACKET WATER COOLER BOLTING	PP&L	N/A	N/A	0E507B	2001	REPLACEMENT	NO
36) SMALL PIPE HANGER	BECHTEL	N/A	N/A	SPHRC9-H2013	1982	REPLACED	NO
37) SMALL PIPE HANGER	PPL	N/A	N/A	SPHRC9-H2013	2001	REPLACEMENT	NO
38) VALVE	YARWAY	A0255	N/A	034009B	1977	REPAIRED	YES
39) INTERCOOLER HEATEXCHANGER BOLTING	JOSEPH OAT	2576D	3243	0E505-B1	1998	REPLACED	YES
40) INTERCOOLER HEATEXCHANGER BOLTING	PPL	N/A	N/A	0E505-B1	2001	REPLACEMENT	NO



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
41) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-2	1982	REPLACED	YES
42) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-2	2001	REPLACEMENT	NO
43) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-2	1982	REPLACED	YES
44) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-2	2001	REPLACEMENT	NO
45) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-1	1982	REPLACED	YES
46) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-1	2001	REPLACEMENT	NO
47) VALVE	MASONEILAN	N00186-18-2	N/A	011050	1978	REPLACED	YES
48) VALVE	FLOWERVE	E378-T-4-1	N/A	011050	2001	REPLACEMENT	YES
49) VALVE	MASONEILAN	N00186-17-1	N/A	011042	1978	REPLACED	YES
50) VALVE	FLOWERVE	E378-T-1-1	N/A	011042	2001	REPLACEMENT	YES
51) VALVE	MASONEILAN	N00186-17-2	N/A	011041	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 PPL Susquehanna, LLC. Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

Authorization No. N/A  
 Expiration Date N/A

See Attached List  
Repair Organization P.O. No., Job No., etc.

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

5. (a) Applicable Construction Code III 19 71 Edition, thru W72 Addenda, \* Code Case  
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6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
52) VALVE	FLOWERVE	E378-T-1-2	N/A	011041	2001	REPLACEMENT	YES
53) VALVE	MASONEILAN	N00186-18-1	N/A	011049	1978	REPLACED	YES
54) VALVE	FLOWERVE	E378-T-4-2	N/A	011049	2001	REPLACEMENT	YES
55) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-1	1982	REPLACED	YES
56) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-1	2001	REPLACEMENT	NO
57) LARGE PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	HRC-3-1	1982	REPLACED	YES
58) LARGE PIPE SUB-ASSEMBLY	PPL	N/A	N/A	HRC-3-1	2001	REPLACEMENT	NO
59) VALVE	YARWAY	A0419	N/A	034009C	1977	REPAIRED	YES
60) JACKET WATER COOLER (TUBE PLUGS)	AMERICAN STANDARD	7-20009-01-1	29140	0E507C	1975	REPAIRED	YES
61) JACKET WATER COOLER BOLTING	AMERICAN STANDARD	7-20009-01-1	29140	0E507C	1975	REPLACED	YES
62) JACKET WATER COOLER BOLTING	PP&L	N/A	N/A	0E507C	2001	REPLACEMENT	NO

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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Name  
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Authorization No. N/A  
 Expiration Date N/A

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

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6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
63) LUBE OIL COOLER BOLTING	AMERICAN STANDARD	7-20009-06-3	29146	0E506C	1975	REPLACED	YES
64) LUBE OIL COOLER BOLTING	PPL	N/A	N/A	0E506C	2001	REPLACEMENT	NO
65) INTERCOOLER BOLTING	JOSEPH OAT	2576B	3241	0E505-C1	1998	REPLACED	YES
66) INTERCOOLER BOLTING	PPL	N/A	N/A	0E505-C1	2001	REPLACEMENT	YES
67) INTERCOOLER BOLTING	JOSEPH OAT	2576A	3240	0E505-C2	1998	REPLACED	YES
68) INTERCOOLER BOLTING	PPL	N/A	N/A	0E505-C2	2001	REPLACEMENT	YES
69) JACKET WATER COOLER BOLTING	AMERICAN STANDARD	7-20009-01-3	29142	0E507A	1975	REPLACED	YES
70) JACKET WATER COOLER BOLTING	PPL	N/A	N/A	0E507A	2001	REPLACEMENT	NO
71) LUBE OIL COOLER BOLTING	AMERICAN STANDARD	7-20009-06-2	29145	0E506A	1975	REPLACED	YES
72) LUBE OIL COOLER BOLTING	PPL	N/A	N/A	0E506A	2001	REPLACEMENT	NO
73) HEAT EXCH BOLTING	SENIOR ENGINEERING	14455-01-2	8302	0E505A1	1994	REPLACED	YES

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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Name  
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3. Work Performed by PPL Susquehanna, LLC  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

Date 05/15/2002

Sheet 8 of 10

Unit COMMON

See Attached List  
Repair Organization P.O. No., Job No., etc.

Type Code Symbol Stamp None

Authorization No. N/A

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 W'72 Addenda, \* Code Case  
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6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
74) HEAT EXCH BOLTING	PPL	N/A	N/A	OE505A1	2001	REPLACEMENT	NO
75) HEAT EXCH BOLTING	SENIOR ENGINEERING	14455-01-1	8301	OE505A2	1994	REPLACED	YES
76) HEAT EXCH BOLTING	PPL	N/A	N/A	OE505A2	2001	REPLACEMENT	NO
77) LARGE PIPE ASSEMBLY BOLTING	COOPER BESSEMER	03-A189	N/A	KS V 91 - 15AA	1976	REPLACED	YES
78) LARGE PIPE ASSEMBLY BOLTING	PP&L	N/A	N/A	KS V 91 - 15AA	2001	REPLACEMENT	NO
79) VALVE	AMOT CONTROLS	N137	N/A	TCV-03412E	1984	REPAIRED	YES
80) VALVE (BOLTING)	AMOT CONTROLS	N137	N/A	TCV-03412E	1984	REPLACED	YES
81) VALVE (BOLTING)	PP&L	N/A	N/A	TCV-03412E	2001	REPLACEMENT	NO

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 Sheet 9 of 10  
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SEE LIST BELOW  
Repair Organization P.O. No., Job No., etc.  
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4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, 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 CC N-416-1 (\*SEE BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH.	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-4	105319	034037D, REPLACED VALVE DISC AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE '74 ED W' 74 ADD REPLACE PART(S) 86 ED NO ADD
5	103400	0E505-D-1, REPAIRED HEAT EXCHANGER BY INSTALLING TUBE PLUGS	NON VT-2 PER MI-PS-008	HEAT EXCH, SEC III ' 74 ED SUM 74 ADD
6-9	103400	0E505D1 & 0E505D2, REPLACED HEAT EXCHANGERS WITH NEW	VT-2 PER SE-000-017 TEMP 70°F/ PRESS 133 PSIG	ORIG AND REPLACE HEAT EXCH, SEC III ' 74 ED SUM 74 ADD
10-11	196556	HRC3-3, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011048	VT-2 PER SE-000-017 TEMP 70°F/ PRESS 133 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
12-13	105510	1RV-PI-03438D & 2RV-PI-03438D, REPAIRED VALVE BY MACHINING STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008	1974 ED WINTER 1974 ADD
14-15	196360	HRC3-3, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011047	VT-2 PER SE-000-017 TEMP 70°F/ PRESS 133 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
16-17	196361	HRC3-3, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011052	VT-2 PER SE-000-017 TEMP 70°F/ PRESS 133 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
18-19	196362	HRC3-2, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011045	VT-2 PER SE-054-301 TEMP 33°F/ PRESS 127 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
20-22	196559	HRC3-2, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011046 AND REPLACED ORIGINAL PIPING CODE DATA PLATE.	VT-2 PER SE-054-301 TEMP 33 °F/ PRESS 127 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
23-24	196570	HRC3-2, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011051.	VT-2 PER SE-054-301 TEMP 33°F/ PRESS 127 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
25	232160	034006B, REPAIRED VALVE BY MACHINING STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008	1974 ED WINTER 1974 ADD
26-29	241584	0E505E1 & 0E505E2, REPLACED HEAT EXCHANGER BOLTING	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III ' 80 ED SUM 81 ADD
30	196362	011045, REPAIRED VALVE BY TACK WELDING DISC PIN DURING SOFT SEAT REPLACEMENT	NON VT-2 PER MI-PS-008	1974 ED WINTER '75 ADD
31-32	261376	0E506B, REPLACED HEAT EXCHANGER BOLTING	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD
33-37	261375	0E507B, REPAIRED HEAT EXCHANGER AREAS OF CORROSION BY WELDING AND REPLACED BOLTING. SPHRC9-H2013 CLIP WAS REMOVED AND REPLACED FOR ACCESS	VT-2 PER SE-000-017 TEMP 54°F/ PRESS 124 PSIG	HEAT EXCHANGER, SEC III '74 ED SUM 74 ADD. UTILIZED CC-416-1 DURING REPAIR.
38	218215	034009B, REPAIRED VALVE BY MACHINING STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008	1974 ED WINTER 1974 ADD
39-40	261374	0E505-B1, REPLACED HEAT EXCH BOLTING	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD

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

1. Owner PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 2. Plant Susquehanna Steam Electric Station Sheet 10 of 10  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 3. Work Performed by PPL Susquehanna, LLC Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Type Code Symbol Stamp None  
 Authorization No. N/A  
 Expiration Date N/A

SEE LIST BELOW

Repair Organization P.O. No., Job No., etc.

4. Identification of System DIESEL GENERATORS AND AUX. SYSTEM 024A, 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 CC N-416-1 (\*SEE BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH.	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
41-42	196569	HRC3-2, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011044	VT-2 PER SE-000-017 TEMP 73°F/ PRESS 119 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
43-44	196554	HRC3-2, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011050	VT-2 PER SE-000-017 TEMP 73°F/ PRESS 119 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
45-46	196561	HRC3-1, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011042	VT-2 PER SE-000-017 TEMP 59 °F/ PRESS 126 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
47-48	315400	011050, REPLACED VALVE WITH NEW STAINLESS STEEL VALVE	VT-2 PER SE-000-017 TEMP 73°F/ PRESS 119 PSIG	ORIGINAL & REPLACEMENT VALVE '74 ED W'75
49-50	315401	011042, REPLACED VALVE WITH NEW STAINLESS STEEL VALVE	VT-2 PER SE-000-017 TEMP 59 °F/ PRESS 126 PSIG	ORIGINAL & REPLACEMENT VALVE '74 ED W'75
51-52	334776	011041, REPLACED VALVE WITH NEW STAINLESS STEEL VALVE	VT-2 PER SE-000-017 TEMP 59 °F/ PRESS 126 PSIG	ORIGINAL & REPLACEMENT VALVE '74 ED W'75
53-54	334786	011049, REPLACED VALVE WITH NEW STAINLESS STEEL VALVE	VT-2 PER SE-000-017 TEMP 59 °F/ PRESS 126 PSIG	ORIGINAL & REPLACEMENT VALVE '74 ED W'75
55-56	196356	HRC3-1, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011049	VT-2 PER SE-000-017 TEMP 59 °F/ PRESS 126 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
57-58	196359	HRC3-1, REPLACED PIPE AND FLANGE DOWNSTREAM OF 011041	VT-2 PER SE-000-017 TEMP 59°F/PRESS126 PSIG	'71 ED W'72, USE OF CC N-416-1 DURING REPLACEMENT
59	292830	034009C, REPAIRED VALVE BY MACHINING STEM/DISC ASSEMBLY.	NON VT-2 PER MI-PS-008	1974 ED WINTER 1974 ADD
60-62	285447	0E507C, REPAIRED HT EXCH BY INSTALLING TUBE PLUGS & REPLACED BOLTING.	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III '74 ED SUM 74 ADD
63-64	285448	0E506C, REPLACED BOLTING DUE TO CORROSION.	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III '74 ED SUM 74 ADD
65-68	285446	0E505C1 & 0E505C2, REPLACED BOLTING DUE TO CORROSION.	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III '74 ED SUM 74 ADD
69-70	328075	0E507A, REPLACED BOLTING DUE TO CORROSION.	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III '74 ED SUM 74 ADD
71-72	358187	0E506A, REPLACED BOLTING DUE TO CORROSION.	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III '74 ED SUM 74 ADD
73-76	328076	0E505A1 & 0E505A2, REPLACED BOLTING DUE TO CORROSION.	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III '74 ED SUM 74 ADD CC 242
77-78	328076	KS V 91-55, REPLACED BOLTING ON DIESEL SKID MOUNTED PIPING.	NON VT-2 PER MI-PS-008	'74 ED WINTER '74 ADD
79-81	367274	TCV-03412E, MACHINED SEAT AREA AND REPLACED BOLTING.	VT-2 PER SE-000-017 TEMP 130°F/PRESS 17 PSIG	'80 ED WINTER '81 ADD

## FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS\*

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

Pg. 1 of 1

1. Manufactured and certified by Joseph Oat Corporation, 2500 Broadway, Camden, N.J. 08104  
(Name and address of N Certificate Holder)
2. Manufactured for Cooper Energy Services, 150 Lincoln Avenue, Grove City, PA.  
(Name and address of purchaser)
3. Location of installation Susquehanna Steam Electric Station, PA.  
(Name and address)
4. Type: HORIZ. Heat Exchanger 2576E ----- E-11892.01/1 3253 1999  
(horiz. or vert.) (tank, jacketed, heat ex.) (Cert. Holder's serial no.) (CAN) (drawing no.) (Nat'l. Bd. no.) (year built)
5. ASME Code, Section III, Division 1: 1974 Summer 74 ----- 3  
(edition) (addenda date) (Code Case no.) (class)

Items 6-10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell: ----- ----- ----- ----- ----- -----  
(mat'l. spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
7. Seams: ----- ----- ----- ----- ----- ----- ----- -----  
(long.) (HT') (RT) (left %I) (girth) (HT') (RT) (no. of courses)
8. Heads: ----- ----- ----- -----  
([a] mat'l. spec. no.) (tensile strength) ([b] mat'l. spec. no.) (tensile strength)
- |     | Location<br>(top, bottom, ends) | Thickness | Crown<br>Radius | Knuckle<br>Radius | Elliptical<br>Ratio | Conical<br>Apex Angle | Hemispherical<br>Radius | Flat<br>Diameter | Side to Pressure<br>(convex or concave) |
|-----|---------------------------------|-----------|-----------------|-------------------|---------------------|-----------------------|-------------------------|------------------|-----------------------------------------|
| (a) | -----                           | -----     | -----           | -----             | -----               | -----                 | -----                   | -----            | -----                                   |
| (b) | -----                           | -----     | -----           | -----             | -----               | -----                 | -----                   | -----            | -----                                   |
- If removable, bolts used ----- Other fastening -----  
(mat'l. spec. no., size, quantity) (describe or attach sketch)

9. Jacket closure: -----  
(Describe as gage & weld, bar, etc. If bar, give dimensions, describe or sketch)
- Design pressure<sup>2</sup> ----- at max. temp. -----. Min. pressure-test temp. -----. Pneu., hydro., or comb. test pressure -----  
(psi) (°F) (°F) (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SB171-706 29" x 21.25" 1.375 WELDED  
(stationary, mat'l. spec. no.) (dia. in. (subject to press.)) (thickness (in.)) (attachment (welded, bolted))
- ----- ----- -----  
(floating, mat'l. spec. no.) (dia. (in.)) (thickness (in.)) (attachment)
12. Tubes: SB111-706 .375 .035" 423 STRAIGHT  
(mat'l. spec. no.) (OD (in.)) (thickness (inches or gage)) (no.) (type (straight or U))

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

13. Shell: SB171-706 40 ksi 1.75/1.50 1.366 2'-4" x 1'-9.25" 3'-3.25"  
(mat'l. spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))
14. Seams: ----- ----- ----- ----- ----- ----- ----- -----  
(long. (welded, dbl., single)) (HT' (yes or no)) (RT) (left %I) (girth) (HT') (RT) (no. of courses)
15. Heads: SB171-706 40 ksi SB171-706 40 ksi ----- -----  
([a] mat'l. spec. no.) (tensile strength) ([b] mat'l. spec. no.) (tensile strength) ([c] mat'l. spec. no.) (tensile strength)
- |                       | Location | Thickness | Crown<br>Radius | Knuckle<br>Radius | Elliptical<br>Ratio | Conical<br>Apex Angle | Hemispherical<br>Radius | Flat<br>Diameter | Side to Pressure<br>(convex or concave) |
|-----------------------|----------|-----------|-----------------|-------------------|---------------------|-----------------------|-------------------------|------------------|-----------------------------------------|
| (a) Top, bottom, ends | -----    | 2.25      | -----           | -----             | -----               | -----                 | -----                   | 28.25x20.5       | -----                                   |
| (b) Channel           | -----    | 1.50      | -----           | -----             | -----               | -----                 | -----                   | 28.25x20.5       | -----                                   |
| (c) Floating          | -----    | -----     | -----           | -----             | -----               | -----                 | -----                   | -----            | -----                                   |

- If removable, bolts used SA193-B7, .5", 154/SA194-2H, .5", 154 Other fastening -----  
(mat'l. spec. no., size, quantity) (describe or attach sketch)
- Design pressure<sup>2</sup> 150 at 200. Min. pressure-test temp. 50. Pneu., hydro., or comb. test pressure 225  
(psi) (°F) (°F) (psi)

\*If post-weld heat treated. <sup>2</sup>Just other internal or external pressure with coincident temperature when applicable.

\*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 number of sheets is recorded at top of this form.

Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	Quantity	Dia. or Size	Type	How Attached	Mat'l.	Thickness	Reinforcement Material	Location
IN/OUT	2	3"	RF	WELDED	S8466-706	.216"	SELF	-----
IN/OUT	2	1.25"	CPLG	WELDED	S8171-706	.295	SELF	-----

18. Supports: Skirt NO Lugs ----- Legs ----- Other ----- Attached -----  
(yes or no) (quantity) (quantity) (describe) (where & how)

19. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## CERTIFICATION OF DESIGN

Design specification certified by David H. Pritzl P.E. State WI Reg. no. E-18378  
 Design report certified by Robert Slebodnick P.E. State PA Reg. no. 25077E

## CERTIFICATE OF SHOP COMPLIANCE

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

Certificate of Authorization No. N-1488 Expires 08/23/2000  
11/29/99 Name Joseph Oat Corporation Signed [Signature]  
(IN 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 NJ and employed by Commercial Union Insurance Company of Boston, MA. have inspected the component described in this Data Report on 1-25-99, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component 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 1-25-99 Signed [Signature] Commissions NB-10539-NA/NJ-1121  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

## CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this nuclear vessel conforms to the rules of construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. \_\_\_\_\_ Expires \_\_\_\_\_  
 Date \_\_\_\_\_ Name \_\_\_\_\_ Signed \_\_\_\_\_  
(IN Certificate Holder) (Authorized representative)

## CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ have compared the statements in this Data Report with the described component and state that parts referred to as data items \_\_\_\_\_, not included in the certificate of shop inspection, have been inspected by me on \_\_\_\_\_ and that to the best of my knowledge and belief the Certificate Holder has constructed \_\_\_\_\_ assembled this component 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 \_\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)



FORM N-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS\*  
As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 1

Manufactured and certified by Joseph Oat Corporation, 2500 Broadway, Camden, N.J. 08104  
(Name and address of N Certificate Holder)

2. Manufactured for Cooper Energy Services, 150 Lincoln Avenue, Grove City, PA.  
(Name and address of purchaser)

3. Location of installation Susquehanna Steam Electric Station, PA.  
(Name and address)

4. Type: HORIZ. Heat Exchanger 2576 F ----- E-11892.01/1 3254 1999  
(Horiz. or vert.) (Tank, jacketed, heat ex.) (Cert. Holder's serial no.) (CRN) (Drawing no.) (Nat'l. Bd. no.) (Year built)

5. ASME Code, Section III, Division 1: 1974 Summer 74 ----- 3  
(Edition) (Addenda date) (Code Case no.) (Class)

Items 6-10 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell: ----- ----- ----- ----- ----- -----  
(mat'l. spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

7. Seams: ----- ----- ----- ----- ----- ----- ----- -----  
(long.) (HT) (RT) (eff. %) (grth) (HT) (RT) (no. of courses)

8. Heads: ----- ----- ----- -----  
(a) mat'l. spec. no. (tensile strength) (b) mat'l. spec. no. (tensile strength)

	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)	-----	-----	-----	-----	-----	-----	-----	-----	-----
(b)	-----	-----	-----	-----	-----	-----	-----	-----	-----

If removable, bolts used ----- Other fastening -----  
(mat'l. spec. no., size, quantity) (describe or attach sketch)

9. Jacket closure: -----  
(Describe as ogee & weld, bar, etc. If bar, give dimensions, describe or sketch)

Design pressure<sup>2</sup> ----- at max. temp. -----. Min. pressure-test temp. -----. Pneu., hydro., or comb. test pressure -----  
(psa) (°F) (°F) (psa)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SB171-706 29" x 21.25" 1.375 WELDED  
(stationary, mat'l. spec. no.) (dia. in. (subject to press.)) (thickness (in.)) (attachment (welded, bolted))

----- ----- ----- -----  
(floating, mat'l. spec. no.) (dia. (in.)) (thickness (in.)) (attachment)

12. Tubes: SB111-706 .375 .035" 423 STRAIGHT  
(mat'l. spec. no.) (OD (in.)) (thickness (inches or gage)) (no.) (type (straight or U))

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

13. Shell: SB171-706 40 ksi 1.75/1.50 1.366 2'-4" x 1'-9.25" 3'-3.25"  
(mat'l. spec. no.) (tensile strength) (nom. thickness (in.)) (min. design thickness (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

14. Seams: ----- ----- ----- ----- ----- ----- ----- -----  
(long. (welded, dbl., single)) (HT) (yes or no) (RT) (eff. %) (grth) (HT) (RT) (no. of courses)

15. Heads: SB171-706 40 ksi SB171-706 40 ksi ----- -----  
(a) mat'l. spec. no. (tensile strength) (b) mat'l. spec. no. (tensile strength) (c) mat'l. spec. no. (tensile strength)

	Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or concave)
(a)	Top, bottom, ends	2.25	-----	-----	-----	-----	-----	28.25x20.5	-----
(b)	Channel	1.50	-----	-----	-----	-----	-----	28.25x20.5	-----
(c)	Floating	-----	-----	-----	-----	-----	-----	-----	-----

If removable, bolts used SA193-B7, .5", 154/SA194-2H, .5", 154 Other fastening -----  
(mat'l. spec. no., size, quantity) (describe or attach sketch)

16. Design pressure<sup>2</sup> 150 at 200. Min. pressure-test temp. 50. Pneu., hydro., or comb. test pressure 225  
(psa) (°F) (°F) (psa)

\*If post weld heat treated. <sup>2</sup>For other internal or external pressure with coincident temperature when applicable.

\*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 number of sheets is recorded at top of this form.

This form (EC0038) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

[illegible]

19. Remarks:

assembled this component 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 \_\_\_\_\_ Signed \_\_\_\_\_ (Authorized Inspector) Commissions \_\_\_\_\_ (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

WIP ORDER 5028781

LES ORDER NO 2026063

# 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  
(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 2000  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
- ASME Code, Section III: 1988 NONE 1 —  
(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) TEZG-B1 ✓	—	(26)	
(2) TEZG-B2 ✓	—	(27)	
(3) TEZG-B3 ✓	—	(28)	
(4) TEZG-B4 ✓	—	(29)	
(5) TEZG-B5 ✓	—	(30)	
(6) TEZG-B6 ✓	—	(31)	
(7) TEZG-B7 ✓	—	(32)	
(8) TEZG-B8 ✓	—	(33)	
(9) TEZG-B9 ✓	—	(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)	

FTE  
OP SUP  
PBG

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 8½ x 11, (2) information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/86)

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

## FORM N-2 (back)

Mfr. Serial No. 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 ASSEMBLY, 1 INCH  
conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-2450 Expires November, 14, 2001

Date 4/6/00 Name YARWAY CORPORATION 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 PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY  
of Johnston, RI have inspected these items described in this Data Report on             
and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 04/06/00 Signed [Signature] Commissions PA2389N  
(Authorized Inspector) (Nat'l Bd. [incl. endorsements] state or prov. and no.)



**As Required by the Provisions of the ASME Code Rules**

[illegible]

## FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
	N/A			
(d) Other Parts				
	Body Ht. #792286	SA240-316	Mid-South Nuclear Inc.	
	S/N #2			
	Disc Ht. #307100	SA479-316	Mid-South Nuclear Inc.	
	S/N #2			

8. Hydrostatic test 425 psi.

## CERTIFICATION OF DESIGN

Design information on file at Flowserve Corporation, 701 First Street, Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 013525E

Stress analysis report certified by N/A (1) Prof. Eng. State PA Reg. No. 013525E

(1) Signature not required. List name only.

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


Date 8/16/01 Signed Flowserve Corporation By R. L. Stannett  
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/04

## 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 Ins. Co. of Boston, MA have inspected the equipment described in this Data Report on 2-5th 8-12-01, 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 8-17-01  256

Charles Young Commissions Pennsylvania 2392  
(Inspector) (National Board, State, Province and No.)  
Charles Young

**As Required by the Provisions of the ASME Code Rules**

[illegible]

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
	N/A			
(d)	Other Parts			
	Body Ht. #810507	SA240-316L	Mid-South Nuclear Inc.	
	S/N #1			
	Disc Ht. #D82404A	SA479-316L	Mid-South Nuclear Inc.	
	S/N#1			
	Body Plugs - Ht. #713157	SA479-316L	Carpenter Technology Corp.	

8. Hydrostatic test 425 psi.

CERTIFICATION OF DESIGN


Design information on file at Flowserve Corporation, 701 First Street, Williamsport, PA 17701  
 Stress analysis report on file at N/A  
 Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 013525E  
 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 8/13/01 Signed Flowserve Corporation By R.L. Stannett  
 (Manufacturer)  
 Certificate of Authorization No. N1712 expires 4/15/04

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 Ins. Co. of Boston, MA have inspected the equipment described in this Data Report on 7-5 ch 8-13 01 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 8-13-01  256

Charles Young (Inspector) Commissions Pennsylvania 2392  
 (National Board, State, Province and No.)



**As Required by the Provisions of the ASME Code Rules**

**4"-150# Butterfly Valve**

(Brief description of service for which equipment was designed)

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 2

Edition 1974, Addenda Date Winter '75, Case No. N/A

[illegible]

## FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c)	Bolting			
	N/A			
(d)	Other Parts			
	Body Ht. #792286	SA240-316	Mid-South Nuclear Inc.	
	S/N #1			
	Disc Ht. #307100	SA479-316	Mid-South Nuclear Inc.	
	S/N #1			

8. Hydrostatic test 425 psi.

## CERTIFICATION OF DESIGN

Design information on file at Flowserve Corporation, 701 First Street, Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 013525E

Stress analysis report certified by N/A (1) Prof. Eng. State PA Reg. No. 013525E

(1) Signature not required. List name only.

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

Date 8/16/01 Signed Flowserve Corporation By R L Stannert  
(Manufacturer)


Certificate of Authorization No. N1712 expires 4/15/04

## 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~~ Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA

have inspected the equipment described in this Data Report on 7-5 thru 8-16-01, 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 8-16-01  256

Charles Young (Inspector) Commissions Pennsylvania 2392  
Charles Young (National Board, State, Province and No.)

**As Required by the Provisions of the ASME Code Rules**

[illegible]

## FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
	N/A			
(d) Other Parts				
	Body Ht. #810326	SA240-316L	Mid-South Nuclear Inc.	
	S/N #1 ✓			
	Disc Ht. #D82404A ✓	SA479-316L	Mid-South Nuclear Inc.	
	S/N #2 ✓			

8. Hydrostatic test 425 psi.

## CERTIFICATION OF DESIGN

Design information on file at Flowserve Corporation, 701 First Street, Williamsport, PA 17701

Stress analysis report on file at N/A

Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 013525E

Stress analysis report certified by N/A (1) Prof. Eng. State PA Reg. No. 013525E

(1) Signature not required. List name only.

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

Date 9/13/01 Signed Flowserve Corporation By R. J. Stannett  
(Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/04

## 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 Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA

have inspected the equipment described in this Data Report on 9-13-01 MX, 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 9-13-01 PM

William Wilke  
(Inspector)  
William Wilke

Commissions Pennsylvania 1722  
(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 PPL Susquehanna, LLC. Date 05/06/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 222463  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System CONTROL STRUCTURE CHILLED WATER SYSTEM 0300, CLASS III
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 (\* SEE COMMENTS SECTION)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PACIFIC	0366-6	N/A	086118	1976	REPAIRED	YES

7. Description of Work REPAIRED VALVE DISC 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 VALVE ORIGINAL CODE OF CONSTRUCTION ASME Sec III 1971 Edition Winter 1972 Addenda  
Applicable Manufacturer's Data Reports to be attached

CC: 1622, 1516-1 & 1567

## CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPAIR conforms to the rules of the  
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 May 31, 20 02  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10-19-01 to 10-22-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Delton E. Tillery* Commissions NA8845 A/N/I/B/NS Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 20 02

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

1. Owner PPL Susquehanna, LLC. Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
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 III \* 19 71 Edition, thru W72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 (\* SEE SHEETS 4 )
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	DRAVO	E3549-39	N/A	HRC-3302-2	1985	REPLACED	YES
2) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	HRC-3302-2	2000	REPLACEMENT	NO
3) LARGE PIPE (BOLTING)	DRAVO	E3549-39	N/A	HRC-3302-2	1985	REPLACED	YES
4) LARGE PIPE (BOLTING)	PP&L	N/A	N/A	HRC-3302-2	2000	REPLACEMENT	NO
5) LARGE PIPE SUB-ASSEMBLY	DRAVO	E3549-40	N/A	HRC-3302-1	1985	REPLACED	YES
6) LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-3302-1	2000	REPLACEMENT	NO
7) LARGE PIPE (BOLTING)	DRAVO	E3549-40	N/A	HRC-3302-1	1985	REPLACED	YES

7. Description of Work SEE ATTACHED LIST
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \* psi Test Temp. \* °F SEE PAGE 4

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 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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 9-26-00 to 12-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 A/N/I/B/N/S Pa2361  
Inspector's Signature National Board, State/Province, and Endorsements

Date June 3 2002



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

1. Owner PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 4  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603 See Attached List  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 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, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 (\* SEE SHEETS 4)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) LARGE PIPE (BOLTING)	PP&L	N/A	N/A	HRC-3302-1	2000	REPLACEMENT	NO
9) VALVE	POSI-SEAL	34838-1A	N/A	011507	1985	REPLACED	YES
10) VALVE	CONTROLMATICS	84954-16-3	320	011507	1979	REPLACEMENT	YES
11) LARGE PIPE SUBASSEMBLY	MORRISON-KNUDSEN CO.	501	N/A	N/A	1984	REPAIRED	YES
12) LARGE PIPE SUBASSEMBLY	MORRISON-KNUDSEN CO.	502	N/A	N/A	1984	REPAIRED	YES
13) SMALL PIPE SUBASSEMBLY	MORRISON-KNUDSEN CO.	505	N/A	N/A	1984	REPLACED	YES
14) SMALL PIPE SUBASSEMBLY	PPL	N/A	N/A	N/A	2000	REPLACEMENT	NO
15) LARGE PIPE MULTI SUPPORT BOLTING	MORRISON-KNUDSEN CO.	N/A	N/A	N/A	1985	REPLACED	YES
16) LARGE PIPE MULTI SUPPORT BOLTING	PPL	N/A	N/A	N/A	2000	REPLACEMENT	NO
17) LARGE PIPE MULTI SUPPORT CLIPS	MORRISON-KNUDSEN CO.	N/A	N/A	N/A	1985	REPLACED	YES
18) LARGE PIPE MULTI SUPPORT CLIPS	PPL	N/A	N/A	N/A	2000	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 PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
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 III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 ( \* SEE SHEETS 4)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
19) SERVICE WATER FLEX CONNECTION	METAL BELLOWS	6	N/A	N/A	1984	REPLACED	YES
20) SERVICE WATER FLEX CONNECTION	SENIOR FLEXONICS	H57310-1-2	N/A	N/A	2000	REPLACEMENT	YES
21) LARGE PIPE SUBASSEMBLY	SENIOR FLEXONICS	H57310-1-2	N/A	N/A	2000	REPAIRED	YES
22) SMALL PIPE SUBASSEMBLY BOLTING	MORRISON-KNUDSEN CO.	N/A	N/A	N/A	1985	REPLACED	YES
23) SMALL PIPE SUBASSEMBLY	PPL	N/A	N/A	N/A	2000	REPLACEMENT	NO



P.O. 9779-40A, Item # 32,33,34 S.O. NP84954 Item #16  
FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES  
As Required by the Provisions of the ASME Code, Section III, Div. 1

1. Manufactured by Contromatics Div., 222 Roberts St., E. Hartford, Ct. 06108  
(Name and Address of N Certificate Holder)  
2. Manufactured for WPPSS, 3000 George Washington Way, Richland, Washington 99352  
(Name and Address of Purchaser or Owner)  
3. Location of Installation Hanford Reservation Project 4, Richland, Washington  
(Name and Address)  
4. Pump or Valve Butterfly Valve Nominal Inlet Size 4 (inch) Outlet Size 4 (inch)

	(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	Butterfly	84954-16-1	N/A	2498-00-48E	2	318	1979
(2)	Butterfly	84954-16-2	N/A	2498-00-48E	2	319	1979
(3)	Butterfly	84954-16-3	N/A	2498-00-48E	2	320	1979
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Component Cooling Water Tag #4-CCW-V-194B, 4-CCW-V-202A, ✓  
(Brief description of service for which equipment was designed)  
& 4-CCW-V-203B

6. Design Conditions 200 (Pressure) psi 200 (Temperature) °F or Valve Pressure Class 150 (1)  
7. Cold Working Pressure 275 psi at 100°F.  
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body	ASME-SA-351 CF8M /	Lodi Iron Works	
Ht #E914 /			
Ht #E915 /			
Disc	ASME-SA-351 CF8M /	Lodi Iron Works	
Ht #E687 /			
(b) Forgings			

(1) For manually operated valves only.

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

(c) Bolting

#### (d) Other Parts

9. Hydrostatic test 425 psi. Disk Differential test pressure 150 psi.

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1974.  
Addenda Winter 1975, Code Case No. N/A, Date 2/15/78.  
(Date)  
Signed Contromatics Division by William S. Hale  
(In Certificate Holder) (William Hale, Quality Control)  
Our ASME Certificate of Authorization No. N-1934 to use the N symbol expires 11/18/80.  
(N) (Date)

Design information on file at Contromatics Division  
Stress analysis report (Class 1 only) on file at \_\_\_\_\_

Design specifications certified by (1) John E. Herman  
PE State Wash. Reg. No. 15137  
Stress analysis certified by (1) \_\_\_\_\_  
PE State \_\_\_\_\_ Reg. No. \_\_\_\_\_

(1) Signature not required. List name only.

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 Lumbermens Mutual Co. of North Quincy, Mass. have inspected the pump, or valve, described in this Data Report on 2-15-1979, and state that to the best of my knowledge and belief, the NCertificate 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 2-15-1978

Commissions NB5846  
(Nat'l Bd., State, Prov. and No.)

# **FORM NPP-1 CERTIFICATE HOLDERS' DATA REPORT FOR FABRICATED NUCLEAR PIPING SUBASSEMBLIES\***

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

Pg. 1 of 1

Job Number: N366 Sales Order Number: H57310

1. Fabricated and certified by Senior Flexonics, Inc., Pathway Division, 2400 Longhorn Industrial Drive, New Braunfels, Texas 78130  
(name and address of NPT Certificate Holder)
2. Fabricated for Engine Systems, Inc., 1220 Washington Street, Rocky Mount, NC 27801 (P.O. # 41678)  
(name and address)
3. Location of installation PPL Susquehanna, Berwick, PA 18603  
(name and address of Purchaser)
4. Type H57310-1-1 & H57310-1-2 ☒ N/A H57310-1 Rev. 0 ☒ N/A 2000  
(Cert. Holder's serial no.) CRN (drawing no.) (Nat'l Bd. No.) (year built)
5. ASME Code, Section III, Division 1: 1980 Summer 1981 3 N-192-2  
(edition) (addenda date) (class) (Code Case no.)
6. Shop Hydrostatic test 255 psi at Ambient ° F (if performed)
7. Description of piping 6" Braided Expansion Joint Assembly

8. Certificate Holder's Data Reports properly identified and signed by commissioned inspectors have been furnished for the following items of this report: None

## **9. Remarks Materials**

Drawing P/N	Description	Specification	Mat'l Traceability Code Number (MTCN)
<u>1 &amp; 2</u>	<u>Bellows</u>	<u>SA-240 Type 321</u>	<u>TCA208</u>
<u>3</u>	<u>Center Connector</u>	<u>SA-240 Type 304</u>	<u>TCA774</u>
<u>4 &amp; 5</u>	<u>Flange</u>	<u>SA-105</u>	<u>TCA771, TCA772, TCA773</u>
<u>6 &amp; 7</u>	<u>Collar</u>	<u>SA-240 Type 304</u>	<u>TCA509</u>
<u>8</u>	<u>Braid</u>	<u>A-580 Type 304</u>	<u>TCA781</u>

Verification of design performed in accordance with ND-3649.4 (e)(1)

## **CERTIFICATE OF SHOP COMPLIANCE**

We certify that the statements made in this report are correct and that the fabrication of the described piping subassembly conforms to the rules for construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2778 Expires April 16, 2002  
Date 11-17-00 Name Senior Flexonics 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 Texas and employed by Commercial Union Insurance Company of Boston, MA have inspected the piping subassembly described in this Data Report on 11-17-00 and state to the best of my knowledge and belief, the Certificate Holder has fabricated this piping subassembly 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 piping subassembly described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-17-2000 Signed [Signature] Commissions TX 1083  
(Authorized Nuclear Inspector) (Nat'l Bd. (incl. endorsements) state or prov. and no.)

\*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size 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.

This form (E00062) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

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

1. Owner PPL Susquehanna, LLC Date 05/01/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Sheet 1 of 2

2. Plant Susquehanna Steam Electric Station Unit Common  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
See Attached List  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System ESW SPRAY SYSTEM 054B, 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)
1) LEVEL ELEMENT	FLUID COMPONENTS	2030N	N/A	LE01201A2	1987	REPLACED	NO
2) LEVEL ELEMENT	FLUID COMPONENTS	2031N	N/A	LE01201A2	1992	REPLACEMENT	NO
3) SMALL PIPE SUBASSEMBLY SPRAY NOZZLES	BECHTEL	N/A	N/A	SPHRC-2-2	1982	REPLACED	YES
4) LARGE PIPE SUBASSEMBLY SPRAY NOZZLES	PP&L	N/A	N/A	SPHRC-2-2	2001	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LIST

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \* psi Test Temp. \* °F (SEE SHEET 2 OF 2)

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 NONE

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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 6-19-01 to 8-24-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Delton E. Tillery* Commissions NB8845 A/N/I/A/N5 Pa2361  
Inspector's Signature National Board, State/Province, and Endorsements

Date June 3 2002



054B-III

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

1. Owner PPL Susquehanna, LLC Date 05/01/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 2  
Address

2. Plant Susquehanna Steam Electric Station Unit COMMON  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE LIST BELOW  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System ESW SPRAY 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)	PCWO	ASME CODE FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	326728	01-054-004	LE01201A2; REPLACED LEVEL PROBE, FLANGE IS PRESSURE RETAINING	VT-2 PER SE-000-017 TEMP 69°F & PRESS 99 PSIG
3-4	342852	01-054-006	SPHRC-2-2, REPLACED (4) NOZZLES ON POND SPRAY ARRAY	VT-2 PER SE-000-017 TEMP 78°F & PRESS 99 PSIG

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

1. Owner PPL Susquehanna, LLC Date 05/16/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 266471 CRF # 00-072-001  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System START-UP SYSTEM 072, CLASS III

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 (\* SEE REMARKS SECTION)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	ATLAS	3155	2533	0E136	1975	REPAIRED	YES
2) HEAT EXCHANGER BOLTING	ATLAS	3155	2533	0E136	1975	REPLACED	YES
3) HEAT EXCHANGER BOLTING	PPL	N/A	N/A	0E136	2000	REPLACEMENT	NO

7. Description of Work REINSTALLATION OF HTX HEAD BY WELDING AND REPLACED BOLTING

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 THIS IS A NON-N5 ASME SEC III HEAT EXCHANGER MAINTAINED UNDER SEC XI.

Applicable Manufacturer's Data Reports to be attached

CODE OF CONST: ASME SEC III 1971 ED SUMMER 1971 ADD CC 56.

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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 7-19-00 to 4-31-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 A/N/I/B/N5 Pa2361  
Inspector's Signature National Board, State/Province, and Endorsements  
Date June 3 2002

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

1. Owner PPL Susquehanna, LLC. Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System PRIMARY CONTAINMENT INSTRUMENT GAS SYSTEM 125A, 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 (\* SEE ATTACHED LIST)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	11673	N/A	126018	1976	REPLACED	YES
2) VALVE	ROCKWELL EDWARDS	85AEQ	N/A	126018	1992	REPLACEMENT	YES
3) VALVE	BORG WARNER	11690	N/A	126029	1976	REPLACED	YES
4) VALVE	ROCKWELL EDWARDS	87AEQ	N/A	126029	1992	REPLACEMENT	YES
5) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHCB111-H2001	1982	REPLACED	NO
6) SMALL PIPE SUPPORT	PPL	N/A	N/A	SPHCB111-H2001	2002	REPLACEMENT	NO
7) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHCB111-H1	1982	REPAIRED	NO

7. Description of Work SEE SHEET 2 OF 2
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 CODE DATA SHEETS 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 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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-16-01 to 3-7-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 A/N/I/B/NS Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements  
Date June 3 2002

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

1. Owner PPL Susquehanna, LLC. Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
- Authorization No. N/A  
 Expiration Date N/A
4. Identification of System PRIMARY CONTAINMENT INSTRUMENT GAS SYSTEM 125A, CLASS II
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 CODE EDITION BELOW)
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK ORDER	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-6	266726	126018 & 126029, SPHCB111-H2001; REPLACED VALVES & RELOCOATED SMALL PIPE SUPPORT CLIP	NON VT-002 PER MI-PS-008	ORIGINAL & REPLACEMENT VALVES 1974 EDITION WINTER 1974 ADDENDA PIPE SUPPORT BUILT TO 1971 EDITION WINTER 1972 ADD
7	266726	SPHCB111-H1, REPAIRED GOUGE IN PIPE SUPPORT MEMBER BY WELDING	NONE	'71 ED WIN '72 ADD

**FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\***

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

1. Manufactured by EDWARD VALVES INC., 1900 S. SAUNDERS ST., RALEIGH, NC 27603  
(Name and Address of Manufacturer)

2. Manufactured for PENNSYLVANIA POWER & LIGHT CO., P.O. Box 467, BERWICK, PA 18603  
(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 Outlet Size 1  
(inch) (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

(1)	B36274(F316)	83AEQ-87AEQ	N/A	D91-22940-03,861	N/A	1992
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. 1" CHECK VALVE B36274 (F316) FRT1  
(Brief description of service for which equipment was designed)

6. Design Conditions 2560 psi 570 °F or Valve Pressure Class 1500 (1)  
(Pressure) (Temperature)

7. Cold Working Pressure 3600 psi at 100°F.

8. Pressure Retaining Pieces

[illegible]

(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.

[illegible]

9. Hydrostatic test 5400 psi. Disk Differential test pressure 3575 psi.

## CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1, Edition 1974.  
Addenda WINTER 1974, Code Case No. N/A, Date 3/12/92.  
(Date)  
Signed EDWARD VALVES INC. by W.D. [Signature]  
(In Certificate Holder)  
Our ASME Certificate of Authorization No. N-1562 to use the "N" symbol expires 11/26/94.  
(N) (Date)

## CERTIFICATION OF DESIGN

Design information on file at EDWARD VALVES INC., RALEIGH, NC. 27603  
Stress analysis report (Class 1 only) on file at \_\_\_\_\_

Design specifications certified by (1) MATTHEW HOBBS JR  
PE State 2D118E Reg. No. PA  
Stress analysis certified by (1) S. L. Adams III  
PE State NC Reg. No. 487

(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 NORTH CAROLINA and employed by HSBI & I Co. of HARTFORD, CT have inspected the pump, or valve, described in this Data Report on 3-12 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 3-12 1992

Commissions NC 1083  
(Nat'l Bd., State, Prov. and No.)



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

1. Owner PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp NONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

Authorization No. N.A.  
 Expiration Date N.A.

4. Identification of System CORE SPRAY PUMP ROOM COOLING SYSTEM 134D, CLASS 3

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 CC: N-416-1 \* SEE 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)
1) UPPER FLEX HOSE (U. COIL)	ANAMET	51399532281-01-001	N.A.	1E231B	1994	REPLACED	NO
2) UPPER FLEX HOSE (U. COIL)	ANAMET	011498C525-665-006	N.A.	1E231B	1998	REPLACEMENT	NO
3) LOWER FLEX HOSE (U. COIL)	ANAMET	061496520647-01-004	N.A.	1E231B	1996	REPLACED	NO
4) LOWER FLEX HOSE (U. COIL)	ANAMET	10249853103-001-008	N.A.	1E231B	1999	REPLACEMENT	NO
5) CS PUMP ROOM COOLER HX	AEROFIN	900636	N.A.	1E231B (UPPER COIL)	1990	REPAIRED	YES
6) CS PUMP ROOM COOLER HX	AEROFIN	900637	N.A.	1E231B (LOWER COIL)	1990	REPAIRED	YES
7) CS PUMP ROOM COOLER HX	AEROFIN	900638	N.A.	1E231D (UPPER COIL)	1990	REPAIRED	YES

7. Description of Work SEE PAGE 3 FOR DESCRIPTION OF WORK & TESTS CONDUCTED.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE PAGE 3  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F SEE PAGE 3

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 REQUIREMENTS; ORIGINAL CODE OF  
CONSTRUCTION FOR AEROFIN HEAT EXCHANGERS (ROOM COOLERS) IS ASME SECTION VIII,  
DIVISION 1, 1986 EDITION WITH NO ADDENDA; CODE CASE 1997-2.

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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 12-11-01 to 1-17-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB 8845 A/N/I/B/NS Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements  
Date June 3 2002

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

1. Owner PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 3  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE ATTACHED PAGE 3 OF 3  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp NONE  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N.A.  
Address Expiration Date N.A.
4. Identification of System CORE SPRAY PUMP ROOM COOLING SYSTEM 134D, CLASS 3
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 CC N-416-1 \* SEE 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)
8) CS PUMP ROOM COOLER HX	AEROFIN	900639	N.A.	1E231D (LOWER COIL)	1990	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 PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 3 of 3  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE BELOW  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp NONE  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N.A.  
Address Expiration Date N.A.
4. Identification of System CORE SPRAY PUMP ROOM COOLING SYSTEM 134D, CLASS 3
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 CC:N-416-1 \* SEE REMARKS
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1 - 6	317157	1E231B, REPAIRED COILS BY WELDING & UPPER COIL UPPER & LOWER FLEX HOSE	VT-2 PER SE-000-017 TEMP: 35 °F / PRESS: 129 PSIG
7 - 8	317159	1E231D, REPAIRED COILS BY WELDING	VT-2 PER SE-054-301 TEMP: 35 °F / PRESS: 129 PSIG

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

1. Owner PPL Susquehanna, LLC. Date 05/06/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
Repair Organization P.O. No., Job No., etc. SEE PAGE 2 OF 2
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp NONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N.A.  
 Expiration Date N.A.
4. Identification of System HPCI PUMP ROOM COOLING SYSTEM 134E, CLASS 3
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 CC: N-416-1 (\* SEE COMMENTS)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (UPPER)	ANAMET	N/A	N/A	1E229A	1987	REPLACED	NO
2) FLEX HOSE (UPPER)	ANAMET	10249853103001-001	N/A	1E229A	1999	REPLACEMENT	NO
3) HPCI ROOM COOLER COIL	AEROFIN	900613	N/A	1E229B	1990	REPAIRED	YES

7. Description of Work SEE SHEET 2 FOR DESCRIPTION OF WORK & TESTS CONDUCTED.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE SHEET 2  
 Other ☐ Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F SEE SHEET 2

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 REQUIREMENTS; ORIGINAL CODE OF  
Applicable Manufacturer's Data Reports to be attached  
CONSTRUCTION FOR AEROFIN HEAT EXCHANGERS (ROOM COOLERS) IS ASME SECTION VIII,  
DIVISION 1, 1986 EDITION WITH NO ADDENDA; CODE CASE 1997-2.

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  Date May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 6-26-01 to 12-19-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 A/N/I/B/NS Pa2361  
Inspector's Signature National Board, State/Province, and Endorsements  
Date 6-3-2002

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

1. Owner PPL Susquehanna, LLC. Date 05/06/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
SEE BELOW  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp NONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
Authorization No. N.A.  
Expiration Date N.A.
4. Identification of System HPCI PUMP ROOM COOLING SYSTEM 134E, CLASS 3
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 Code Case N-416-1
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHOR./ORDER	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	285445	1E229A, REPLACE UPPER FLEX HOSE	VT-2 PER SE-000-017 TEMP: 75°F / PRESS: 130 PSIG
3	339721	1E229B, REPAIRED COIL BY WELDING	VT-2 PER SE-000-017 TEMP: 45 °F / PRESS: 125 PSIG

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

1. Owner <u>PPL Susquehanna, LLC.</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Date <u>05/01/2002</u> Sheet <u>1</u> Of <u>1</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>ONE</u> <u>PCWO # 198486 &amp; 198487</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC.</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>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 <u>RCIC PUMP ROOM COOLING SYSTEM 134F, CLASS 3</u>	
5. (a) Applicable Construction Code <u>III</u> 19 <u>71</u> Edition, <u>thru W72</u> Addenda, <u>*</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u> CC: N-416-1 (* SEE COMMENTS)	
6. Identification of Components Repaired or Replaced and Replacement Components	

Name of 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) RCIC ROOM COOLER COIL	AEROFIN	900608	N/A	1E228A	1990	REPAIRED	YES
2) RCIC ROOM COOLER COIL	AEROFIN	900609	N/A	1E228B	1990	REPAIRED	YES

7. Description of Work	<u>PERFORMED MINOR WELD REPAIRS ON HEAT EXCHANGER ENDBELLS .</u>
8. Tests Conducted:	Hydrostatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> Nominal Operating Pressure <input checked="" type="checkbox"/> (* NON VT-2 PER MI-PS-008) Other <input type="checkbox"/> 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 ORIGINAL CODE OF CONSTRUCTION FOR AEROFIN HEAT EXCHANGERS (ROOM COOLERS)

Applicable Manufacturer's Data Reports to be attached

IS ASME SECTION VIII, DIVISION 1, 1986 EDITION WITH NO ADDENDA; CODE CASE 1997-2.

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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 5-9-00 to 5-19-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB 8845 A/N/I/A/NS Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002

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

1. Owner PPL Susquehanna, LLC. Date 05/06/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp NONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

Authorization No. N.A.  
 Expiration Date N.A.

SEE PAGE 2 OF 2

Repair Organization P.O. No., Job No., etc.

4. Identification of System RHR PUMP ROOM COOLING SYSTEM 134G, CLASS 3

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC: N-416-1 (\* SEE COMMENTS)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) RHR PMP ROOM COOLER COIL	AEROFIN	900620	N/A	1E230B (UPPER COIL)	1990	REPAIRED	YES
2) RHR PMP ROOM COOLER COIL	AEROFIN	900616	N/A	1E230A (UPPER COIL)	1990	REPAIRED	YES

7. Description of Work SEE SHEET 2 FOR DESCRIPTION OF WORK & TESTS CONDUCTED.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE SHEET 2  
 Other ☐ Pressure                      psi Test Temp.                      °F SEE SHEET 2

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 ORIGINAL CODE OF CONSTRUCTION FOR AEROFIN HEAT EXCHANGERS (ROOM

Applicable Manufacturer's Data Reports to be attached

COOLERS) IS ASME SECTION VIII, DIVISION 1, 1986 EDITION WITH NO ADDENDA;

CODE CASE 1997-2.

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  Date May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 11-6-01 to 11-7-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Dalton E. Tilley Commissions NA8845 P/N/I/A/NS Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002

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

1. Owner PPL Susquehanna, LLC. Date 05/06/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
SEE BELOW  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp NONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N.A.  
 Expiration Date N.A.
4. Identification of System RHR PUMP ROOM COOLING SYSTEM 134G, CLASS 3
5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC: N-416-1 (\* SEE COMMENTS)
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHOR./ORDER	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1	237369	1E230B, REPAIRED UPPER COIL ENDBELLS BY WELDING	VT-2 PER SE-000-017 TEMP: 52°F / PRESS: 125 PSIG
2	339726	1E230A, REPAIRED UPPER COIL ENDBELLS BY GRINDING	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 PPL Susquehanna, LLC. Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address WO # 103677, CRF # 01-135-001  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

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

5. (a) Applicable Construction Code III\* 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N-416-1 (\* SEE SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PACIFIC	0109-6	N/A	153009B	1976	REPLACED	YES
2) VALVE	FLOWERVE	E716A-1-1	N/A	153009B	1999	REPLACEMENT	YES

7. Description of Work VALVE REPLACEMENT BY WELDING

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒  
 Other ☐ Pressure 123 psig Test Temp. 82 °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. PACIFIC, '71 EDITION WINTER '72 ADD.

Applicable Manufacturer's Data Reports to be attached

FLOWERVE REPLACEMENT VALVE, '71 ED WINTER '72 ADD CC 1567.

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 *James G. Smith* Date June 12, 2002  
Owner or Owner's Designer, 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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 5-4-00 to 8-21-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*William R. Regus III* Commissions NB7980 A, N, E, B, NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 17 2002

**As Required by the Provisions of the ASME Code Rules**

[illegible]

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Studs	SA193-B7	NOVA Machine Products Corp.	
Ht 85098 /			
Nuts			
Ht S27778 /	SA194-2H	Allied Group	
(d) Other Parts			
N/A			

8. Hydrostatic test 450 psi.

CERTIFICATION OF DESIGN

Design information on file at Flowserve Corp., 701 First St., Williamsport, PA 17701  
 Stress analysis report on file at N/A  
 Design specifications certified by Dale Sattar (1) Prof. Eng. State PA Reg. No. 019525-E  
 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 9/20 19 99 Signed Flowserve Corp. By R L Stannett  
 (Manufacturer)

Certificate of Authorization No. N1712 expires 4/15/01

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~~ Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the equipment described in this Data Report on 220th 9-21 19 99, 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 9-21 19 99

Charles Young Commissions Pennsylvania 2392  
 (Inspector) Charles Young (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 PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 389668  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System FEEDWATER SYSTEM 145A, CLASS II

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)
1) VALVE (DISC)	BW/IP	E242A-1-1 (VALVE)	N/A	141F039B	1998	REPLACED	YES
2) VALVE (DISC)	BW/IP	8	N/A	141F039B	1998	REPLACEMENT	YES
3) VALVE	BW/IP	E242A-1-1 (VALVE)	N/A	141F039B	1998	REPAIRED	YES

7. Description of Work REPLACED VALVE DISC, WHICH REQUIRED DRILL & PIN OF DISC

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (NON VT-002 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 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 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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-9-02 to 3-19-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB 8845 A/N/E/A/NS Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002

## FORM N-3 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., 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 - 8 Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. C24421 Drawing Prepared by BW/IP Int'l. Inc., Valve Div.
- (b) Description of Part Inspected Disc Heat # F8929 SA105
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda date W72, Case No. - Class 2
3. Remarks: 3" - 900# Swing Check  
(Brief description of service for which component was designed)  
BW/IP Shop Order E242A-2

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 3/11/98 Signed BW/IP International, Inc. Valve Division By R. J. 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 32421 32421 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 3/12/98Inspector's Signature Charles YoungCommission No. Pennsylvania 2392  
National Board, State, Province and No.

\* Supplemental sheets on form of data, photos or drawings may be used provided (1) size is 8 1/2" x 11", (2) information is items 1-2 on this form. Report is returned at your plant, and the extra sheet is returned with inspector's report as required in item 1. "Remarks".

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

1. Owner PPL Susquehanna, LLC Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

Authorization No. N/A  
 Expiration Date N/A

4. Identification of System RHR POOL SPRAY PUMPS AND AUXILIARY SYSTEM 149A, 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 (\* SEE ATTACHED SHEET)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) TUBING SUBASSEMBLY	BECHTEL	N/A	N/A	JD-27-3-5C	1982	REPLACED	YES
2) TUBING SUBASSEMBLY	PPL	N/A	N/A	JD-27-3-5C	2000	REPLACEMENT	NO
3) TUBING SUBASSEMBLY	BECHTEL	N/A	N/A	JD-27-3-5A	1982	REPLACED	YES
4) TUBING SUBASSEMBLY	PPL	N/A	N/A	JD-27-3-5A	2001	REPLACEMENT	NO
5) VALVE (DISC)	ANCHOR DARLING	E5854-34-3 (VALVE)	N/A	151F046C	1976	REPLACED	YES
6) VALVE (DISC)	ANCHOR DARLING	10	N/A	151F046C	1995	REPLACEMENT	YES
7) VALVE (DISC)	ANCHOR DARLING	10	N/A	151F046C	1995	REPAIRED	YES

7. Description of Work SEE ATTACHED LIST

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 CODE DATA SHEET(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 **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 May 31, 2002  
 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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 9-15-00 to 2-12-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Delton E. Tilley* Commissions NB 8845 A/N/I/B/NS Pa 2361  
 Inspector's Signature National Board, State, Province, and Endorsements  
 Date June 3 2002

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

1. Owner PPL Susquehanna, LLC Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

Authorization No. N/A  
 Expiration Date N/A

SEE LIST BELOW

Repair Organization P.O. No., Job No., etc.

4. Identification of System RHR POOL SPRAY PUMPS AND AUXILIARY SYSTEM 149A, CLASS II

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 CODE EDITION BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DISCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-2	276541	00-149-021	JD-27-3-5C, REPLACED INSTRUMENT TUBING ASSOCIATED WITH PSH-E11-1N022A	NON VT-2 PER MI-PS-008	1971 ED WIN '72 ADD
3-4	259680	01-149-001	JD-27-3-5A, REPLACED INSTRUMENT TUBING ASSOCIATED WITH PSH-E11-1N021A	NON VT-2 PER MI-PS-008	1971 ED WIN '72 ADD
5-7	258078	02-149-001	151F046C, REPLACED VALVE DISC & REPAIRED BY DRILLED NEW DISC RETAINING DISC NUT-LOCKING PIN	NON VT-2 PER MI-PS-008	VALVE 71 ED WIN '72 ADD CC 1516-1, 1534; REPLACEMENT DISC 71 ED WIN '72 ADD NO CC

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

1. Owner PPL Susquehanna, LLC Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
SEE ATTACHED LIST  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System RHR STEAM CONDENSING MODE SYSTEM 149B, CLASS III
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 (\* SEE ATTACHED SHEET)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (BASE)	CROSBY	N60598-00-001	N/A	PSV11213A	1979	REPAIRED	YES
2) VALVE (DISC)	CROSBY	N60598-00-001	N/A	PSV11213A	1979	REPLACED	YES
3) VALVE (DISC)	ANDERSON GREENWOOD CROSBY	N91855-54-0109	N/A	PSV11213A	2001	REPLACEMENT	YES
4) HEAT EXCHANGER (BOLTING)	MLW	10638-Q	121	1E205A	1976	REPLACED	YES
5) HEAT EXCHANGER (BOLTING)	PPL	N/A	N/A	1E205A	2002	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LIST
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE ATTACHED LISTS)  
 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

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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-8-02 to 4-10-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB 8845 A/N/I/B/NS Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002



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

1. Owner PPL Susquehanna, LLC Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
- Authorization No. N/A  
 Expiration Date N/A
4. Identification of System RHR STEAM CONDENSING MODE SYSTEM 149B, 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 CODE EDITION BELOW)
6. Identification of Components Repaired or Replaced and Replacement Components

ITEM	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DISCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-3	312793	02-149-003	PSV11213A, REPAIRED VALVE BY MACHINING BASE AND REPLACED VALVE DISC.	NON VT-2 PER MI-PS-008	ORIGINAL VALVE AND REPLACEMENT PARTS, 1974 ED SUM '75 ADD
4-5	310832	02-149-007	1E205B, REPLACED BOLTING MATERIALS (28) STUDS.	NON VT-2 PER MI-PS-008	1971 ED WIN '72 ADD

03/28/01 WED 16:14 FAX 508 384 3152

CROSBY

002

Q.C.-392

Sheet 1 of 2

**FORM N-2 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 Anderson Greenwood Crosby, 43 Kendrick St., Wrentham, MA 02093  
(Name and Address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT  
(Name and Address of Purchaser or Owner)
3. Location of Installation SUSQUEHANNA SES STOREROOM  
(Name and Address)
4. Type DS-C-60597 REV.E / SB164 CL.A / 87,000 / 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1974 / SUMMER 1975 / 2 / ---  
(edition) (addenda date) (class) (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) --- Revision --- Date ---  
(no.)
7. Remarks \_\_\_\_\_
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) <u>N91855-54-0109</u>	<u>---</u>	(26)	<u>---</u>
(2) <u>N91855-54-0110</u>	<u>---</u>	(27)	<u>---</u>
(3) <u>N91855-54-0111</u>	<u>---</u>	(28)	<u>---</u>
(4)	<u>---</u>	(29)	<u>---</u>
(5)	<u>---</u>	(30)	<u>---</u>
(6)	<u>---</u>	(31)	<u>---</u>
(7)	<u>---</u>	(32)	<u>---</u>
(8)	<u>---</u>	(33)	<u>---</u>
(9)	<u>---</u>	(34)	<u>---</u>
(10)	<u>---</u>	(35)	<u>---</u>
(11)	<u>---</u>	(36)	<u>---</u>
(12)	<u>---</u>	(37)	<u>---</u>
(13)	<u>---</u>	(38)	<u>---</u>
(14)	<u>---</u>	(39)	<u>---</u>
(15)	<u>---</u>	(40)	<u>---</u>
(16)	<u>---</u>	(41)	<u>---</u>
(17)	<u>---</u>	(42)	<u>---</u>
(18)	<u>---</u>	(43)	<u>---</u>
(19)	<u>---</u>	(44)	<u>---</u>
(20)	<u>---</u>	(45)	<u>---</u>
(21)	<u>---</u>	(46)	<u>---</u>
(22)	<u>---</u>	(47)	<u>---</u>
(23)	<u>---</u>	(48)	<u>---</u>
(24)	<u>---</u>	(49)	<u>---</u>
(25)	<u>---</u>	(50)	<u>---</u>

10. Design pressure --- psi. Temp. --- ° F Hydro. test pressure 750 at temp. 70 ° 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.

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

Form N-2 (Back)

Q.C.-392  
Sheet 2 of 2Certificate Holder's Serial No. N91855-54-0109**CERTIFICATE OF DESIGN**Design specifications certified by AUTHUR R. SCHICK P.E. State CA Reg. no. 13898  
(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) Discs  
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1877 Expires Sep. 30, 2001Date 28-MAR-01 Signed Anderson Greenwood Crosby  
Wrentham, MA by D. E. T...  
(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 Massachusetts and employed by Factory Mutual Insurance Co. of Johnston, Rhode Island have inspected these items described in this Data Report on March 28, 20 01 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 3-28, 20 01

Signed

David A. Hutton  
(Authorized Inspector)

Commissions

MA-1418 N  
(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 PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Sheet 1 Of 2  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
3. Work Performed by PPL Susquehanna, LLC Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
- Type Code Symbol Stamp None  
Repair Organization P.O. No., Job No., etc.
- Authorization No. N/A  
 Expiration Date N/A
4. Identification of System RHR CONTAINMENT SPRAY PIPE & LOGIC SYSTEM 149E, CLASS II
5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* SEE ATTACHED SHEET)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (DISC)	ANCHOR DARLING	E5854-5-1 (VALVE)	N/A	151F021A	1976	REPLACED	YES
2) VALVE (DISC)	FLOWERVE	K244	N/A	151F021A	2001	REPLACEMENT	YES
3) VALVE (DISC)	FLOWERVE	K244	N/A	151F021A	2001	REPAIRED	YES
4) VALVE (DISC)	FLOWERVE	K244	N/A	151F021A	2001	REPAIRED	YES

7. Description of Work SEE ATTACHED LIST
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE ATTACHED LISTS)  
 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

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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-13-02 to 5-14-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB 8845 A/N/I/B/NS Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002

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

1. Owner PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 2  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE LIST BELOW  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System RHR CONTAINMENT SPRAY PIPE & LOGIC SYSTEM 149E, CLASS II

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 (\* SEE CODE EDITION BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DISCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-3	252469	02-149-002	HV-151F021A, REPLACED VALVE DISC & MACHINED VALVE DISC FOR FIT.	NON VT-2 PER MI-PS-008	VALVE 71 ED WIN '72 ADD CC 1516-1, 1534; REPLACE DISC '71 ED WIN '72 ADD
4	390413	02-149-005	HV-151F021A, REMACHINED VALVE DISC DUE TO GUIDE INTERFERENCE WITH VALVE BODY WHILE CLOSING	NON VT-2 PER MI-PS-008	1971 ED WIN '72 ADD

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

1. (a) Manufactured by Flowserve Corporation, 701 First Street, Williamsport, PA 17701  
(Name and address of NPT Certificate Holder)
- (b) Manufactured for Pennsylvania Power & Light, 2 North Ninth St., Allentown, PA 18101-1179  
(Name and address of NPT Certificate Holder for component or major component)
2. Identification - Certificate Holder's Serial No. of Part S/N - K244 Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. D7813 Drawing Prepared by Flowserve Corp.
- (b) Description of Part Inspected DISC Heat #A5765A SA216-WCB
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda date W'72, Case No. - Class 2 ✓
3. Remarks: 12"-300# FW Gate  
(Brief description of service for which component was designed)  
Flowserve Shop Order #P652G-1

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 5/11/01 Signed Flowserve Corporation By R. L. Hammett  
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/04 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 4-10-01 5-2-01 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 5-2-01 CU

Charles Young Commission Pennsylvania 2392  
Inspector's Signature National Board, State, Province and No.

\*Supplemental sheets in form of lists, tabulations or drawings may be used provided (1) each is 8 1/2" x 11", (2) information on sheets 1-2 is the same as on sheets 3-4 and the sheets are in duplicate with original of sheets 3-4, (3) sheets are dated and signed by the inspector.

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

1. Owner PPL Susquehanna, LLC Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 1 Of 2  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE ATTACHED LIST  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System RHR SHUTDOWN COOLING MODE SYSTEM 149G, CLASS I
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 (\* SEE ATTACHED SHEET)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	MASONEILAN	N-00186-8-1	N/A	HV151F122A	1978	REPLACED	YES
2) VALVE	MASONEILAN	1810-1-1039-22	N/A	HV151F122A	1997	REPLACEMENT	YES
3) VALVE	LONERGRAN	510138-1-15-1 (VALVE)	N/A	PSV151F0126	1979	REPAIRED	YES
4) VALVE (SPRING & STEPS)	LONERGRAN	510138-1-15-1 (VALVE)	N/A	PSV151F0126	1979	REPLACED	YES
5) VALVE (SPRING & STEPS)	LONERGRAN	N/A	N/A	PSV151F0126	1989	REPLACEMENT	YES
6) VALVE (NAME PLATE)	LONERGRAN	510138-1-15-1 (VALVE)	N/A	PSV151F0126	1979	REPLACED	YES
7) VALVE (NAME PLATE)	PPL	N/A	N/A	PSV151F0126	2002	REPLACEMENT	NO

7. Description of Work SEE ATTACHED LIST
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE ATTACHED LISTS)  
 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

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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-16-02 to 3-17-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB 8845 A/N/I/B/VS Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements  
Date June 3 2002

149G-I

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

1. Owner PPL Susquehanna, LLC Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 2  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE LIST BELOW  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System RHR SHUTDOWN COOLING MODE SYSTEM 149G, CLASS I

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 (\* SEE CODE EDITION BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DISCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-2	346013	02-149-006	HV151F122A, REPLACED VALVE STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008	ORIGINAL VALVE & REPLACEMENT PARTS 1974 ED WIN '75 ADD
3-7	312790	02-149-008	PSV151F126, MACHINED VALVE BASE AND REPLACED SPRING ASSEMBLY AND MISSING VALVE NAME PLATE.	NON VT-2 PER MI-PS-008	1974 ED WIN '74 ADD CC1555

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

N 396186-1

**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 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 144,467 PSI N/A 1997  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (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 N° 013431-135-1L2 - 3/4" & 1"  
Spare Part for S/N N 00186-5,6,7,8,9,10,12,14,15

Qty. (1)

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) <u>1810-1-1039-22</u>	
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 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.

(12/88)

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

Pg 4

Certificate Holder's Serial Nos. N 396186-1 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 ~~(these)~~ Plug S/A 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 9-23-97 Name Masoneilan-Dresser Industries Signed William J. Can  
(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. 26, 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.

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

Date 9/26/97 Signed Willie W. Will Commissions MA-1337  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

ESTABLISHED  
1972

March 10, 1989

Pennsylvania Power & Light Co.  
Susquehanna SES Storeroom  
5 Miles N.E. of Berwick  
on U.S. Route 11  
Berwick, PA 19603

CERTIFICATE OF COMPLIANCE

This is to certify to the best of our knowledge and belief that the item(s) described below is in accordance with Section III, Class 1, 2 & 3 of the ASME Boiler and Pressure Vessel Code 7 1/2 Winter 7 1/2. Material stored at J. E. Lonergan Co., Philadelphia, Pennsylvania, retains traceability by the Identification and Verification Program meeting the requirements of NCA 3800 under our NPT Certificate of Authorization No. N-2755 which expires June 5, 1990. Material was supplied under our Quality Assurance Manual No. 201 Rev. 1 - 4th Edition dated May 1, 1987.

CUSTOMER: Pennsylvania Power & Light Co.PURCHASE ORDER: 8-31929-1J.E.L. ORDER # MY8803055MANUFACTURER: J. E. Lonergan Co.  
Springs..... Atlantic Spring

ITEM NO.	QTY.	DESCRIPTION	SPECIFICATION	TRAC NO./TRACE CODE
4	1	Ring Pin	ASME BA-479 Type 316	1G3107
11	1	Spring	ASME A-313 Type 316	0A1268
11A	2	Spring Steps	ASME BA-479 Type 316	662015
13	1	Spring	ASME A-229	351244
13A	2	Spring Steps	ASME BA-479 Type 304	A10084
Item #4 - Class 2		C/N 14374		
Item #11 - Class 1		C/N 14441		
Item #11A Class 1		C/N 14441		
Item #13 Class 3		C/N 14407		
Item #13A Class 3		C/N 14407		



No. 89-0276  
RECORD PACKAGE  
PAGE 4 OF 15

SIGNED: T. A. Nickey

T. A. Nickey

TITLE: QUALITY ASSURANCE MANAGER

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

1. Owner PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 388651 CRF # 02-150-001  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System RCIC WATER LOOP SYSTEM 150A, 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 (\* SEE 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)
1) PUMP	BINGHAM PUMP	210015	N/A	1E203	1976	REPAIRED	NO

7. Description of Work REPAIRED PUMP BY INCREASING SIZE OF WELD REINFORCEMENT.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (NONE)  
 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 OF CONSTRUCTION FOR BINGHAM PUMP ASME 1968 DRAFT PUMP & VALVE CODE.  
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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-7-02 to 3-22-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NA8845 A/N/E/B/N/S Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements  
Date June 3 2002

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

1. Owner PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 389968 CRF # 02-150-002  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System RCIC TURBINE & AUX. (Steam Loops & Flow Control) 150B, CLASS II

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)
1) LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	DBB109-H8	1982	REPLACED	NO
2) LARGE PIPE SUPPORT	PPL	N/A	N/A	DBB109-H8	2002	REPLACEMENT	NO

7. Description of Work PERFORMED INSTALLATION OF LUBRITE PLATE & STOPS.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (NONE)  
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 NONE

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 May 31, 20 02  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-27-02 to 3-28-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Delton E. Tilley* Commissions NB8845 A/N/I/B/NS Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 20 02

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

1. Owner PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 341092 & 245151  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System CORE SPRAY SYSTEM 151A, 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 (\* SEE REMARKS SECTION)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (DISC)	ANCHOR DARLING	E5854-35-3	N/A	152005	1976	REPLACED	YES
2) VALVE (DISC)	ANCHOR DARLING	3	N/A	152005	2001	REPLACEMENT	YES
3) VALVE (STEM/DISC)	YARWAY	5870	N/A	152010	1976	REPLACED	YES
4) VALVE (STEM/DISC)	YARWAY	AV94-B18	N/A	152010	1998	REPLACEMENT	YES

7. Description of Work 152005, REPLACED VALVE DISC. 152010 REPLACE STEM/DISC.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (NONE)  
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 SHEET ATTACHED. CODE OF CONSTRUCTION: ANCHOR DARLING ORIGINAL  
Applicable Manufacturer's Data Reports to be attached  
VALVE '71 ED WIN '72 ADD CC 1516-1 & 1534. REPLACEMENT PARTS '71 ED WIN '72 ADD NO CC.  
YARWAY ORIGINAL VALVE '74 ED WIN '74 ADD. REPLACEMENT PARTS 1986 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  
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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10-9-01 to 1-17-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Delton E. Tilley* Commissions NB 8845 A/N/I/B/NS Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements  
Date June 3 2002

# 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 Flowserve Corporation, 701 First Street, Williamsport, PA 17701  
(Name and address of NPT Certificate Holder)
- (b) Manufactured for Pennsylvania Power & Light, 2 North Ninth Street, Allentown, PA 18101-1179  
(Name and address of N Certificate Holder for completion section 3(b))
2. Identification-Certificate Holder's Serial No. of Part S/N - 3 Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. C12790 Drawing Prepared by Flowserve Corp.
- (b) Description of Part Inspected DISC Heat # B6893A SA216-WCB
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda date W'72, Case No. -- Class 2
3. Remarks: 3"-300# Swing Check  
(Brief description of service for which component was designed)  
Flowserve Shop Order #P618G-1 SA216-WCB

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 4/19/01 Signed Flowserve Corporation By R. L. Stannett  
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/04 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 3-16-01 Ch 4-1901 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 4-19-01

Charles Young  
Inspector's Signature

Commission Pennsylvania 2392  
National Board, State, Province and No.

\*Supplemental sheets in form of loose, detachable drawings may be used providing (1) each is 9 1/2" x 11 1/2", (2) information on items 1-3 on this sheet is included on each sheet, and (3) each sheet is numbered and dated at bottom as shown on sheet 2. "Revised" stamp is required.

(10/77)

This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

WIP ORDER5006907

SALES ORDER NO2003656

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 byYARWAY CORPORATION, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760  
(name and address of NPT Certificate Holder)
2. Manufactured forFRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24506  
(name and address of purchaser)
3. Location of installationSTOCK  
(name and address)
4. Type969155-08AMS5385E (disc)52 000 PSI MIN.N/A1998  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III:1986NONE1  
(edition) (addenda date) (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only)RevisionDate  
(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-B1	—	(26) AV94-B26	—
(2) AV94-B2	—	(27) AV94-B27	—
(3) AV94-B3	—	(28) AV94-B28	—
(4) AV94-B4	—	(29) AV94-B29	—
(5) AV94-B5	—	(30) AV94-B30	—
(6) AV94-B6	—	(31)	—
(7) AV94-B7	—	(32)	—
(8) AV94-B8	—	(33)	—
(9) AV94-B9	—	(34)	—
(10) AV94-B10	—	(35)	—
(11) AV94-B11	—	(36)	—
(12) AV94-B12	—	(37)	—
(13) AV94-B13	—	(38)	—
(14) AV94-B14	—	(39)	—
(15) AV94-B15	—	(40)	—
(16) AV94-B16	—	(41)	—
(17) AV94-B17	—	(42)	—
(18) AV94-B18	—	(43)	—
(19) AV94-B19	—	(44)	—
(20) AV94-B20	—	(45)	—
(21) AV94-B21	—	(46)	—
(22) AV94-B22	—	(47)	—
(23) AV94-B23	—	(48)	—
(24) AV94-B24	—	(49)	—
(25) AV94-B25	—	(50)	—

FTI  
OP SUP  
PBG

10. Design pressurepsi. Temp.°F Hydro. test pressureN/Aat 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.

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 5/21/98 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 of Province of  
PENNSYLVANIA and employed by \* ARKWRIGHT MUTUAL INSURANCE COMPANY  
of NORWOOD, MA have inspected these items described in this Data Report on             
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 05/21/98 Signed David Thayer Commissions PA2389'N'S'  
(Authorized Inspector) (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

FTI  
OP SUP  
FBG

PAGE 9 OF 26

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

1. Owner PPL Susquehanna, LLC Date 05/16/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 352081 CRF # 02-152-001  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System HPCI WATER LOOP SYSTEM 152A, CLASS II
5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, \* Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* SEE REMARKS SECTION)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (DISC)	PACIFIC	0086-6 (VALVE)	N/A	155F019	1976	REPLACED	YES
2) VALVE (DISC)	CRANE	D0161	N/A	155F019	2001	REPLACEMENT	YES
3) VALVE (DISC)	CRANE	D0161	N/A	155F019	2001	REPAIRED	YES

7. Description of Work REPLACED VALVE DISC, DRILLED NEW DISC FOR LOCKING PIN
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 SHEET ATTACHED. CODE OF CONSTRUCTION: PACIFIC ORIGINAL VALVE  
Applicable Manufacturer's Data Reports to be attached  
'71 ED WIN '72 ADD CC 1622, 1516-1, 1567 & 1335-9. REPLACEMENT PARTS '71 ED WIN '72 NO CC

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the  
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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 2-28-02 to 4-21-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

*Delton E. Tillery* Commissions NB8845 A/N/I/B/N/S Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements  
Date June 3 20 02



# 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 2

- Manufactured and certified by CRANE Nuclear, Inc., 860 Remington Boulevard, Bolingbrook, IL 60440  
(name and address of NPT Certificate Holder)
- Manufactured for Pennsylvania Power & Light 2 North Ninth Street Allentown, PA 18101-1179  
(name and address of purchaser)
- Location of installation Susquehanna Nuclear Plant PO Box 467 Berwick, PA 18603  
(name and address)
- Type CB02583, Rev. A SA516 Gr. 70 70 KSI Min. N/A 2001  
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)
- ASME Code, Section III, Division 1: 1971 Winter 1972 2 N/A  
(edition) (addenda date) (class) (Code Case no.)
- Fabricated in accordance with Const. Spec. (Div. 2 only) N/A Revision N/A Date N/A  
(no.)
- Remarks: PO No. 1-11632-1 Item 2 SO No. 12928-02 16" Disc, P/N H4013 (CB02583-459N2) w/Stellite #6 Hardfacing  
For a 16" 180-7-WE-X, 150#, Swing Check Valve Assembly Drawings No. CB02586, Rev. A **\*\* No Hydro performed**

Material supplier: Energy & Process Corp. Heat No.: Y80071

- Nom. thickness (in.) 1.25 Min. design thickness (in.) 1.21 Dia. ID (ft. & in.) 14.25" Length overall (ft. & in.) 4.562"
- 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>D0161</u>	<u>N/A</u>
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

- Design pressure 275 psi. Temp. 100 °F. Hydro. test pressure --- 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.

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

## FORM N-2 (Back) — Pg. 2 of 2

Certificate Holder's Serial Nos. D0161 through N/A

## CERTIFICATION OF DESIGN

Design specifications certified by John R. Schmiedel P.E. State PA Reg. No. 19870-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 (these) Disc - P/N H4013 (CB02583-459N2)  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

NPT Certificate of Authorization No. N-2900 Expires September 24, 2002

Date 07/31/01 Name CRANE Nuclear, Inc. Signed Garrett Petrovich  
(NPT Certificate Holder) (Authorized Representative)  
Garrett Petrovich  
Sr. Quality Assurance Engineer

## 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 Illinois and employed by Factory Mutual Insurance Company of Johnston, RI have inspected these items described in this Data Report on 07/31/01, 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 07/31/01 Signed James Bush Commissions Illinois 1077  
(Authorized Nuclear Inspector) (Nat'l Bd. (incl. endorsements) and state or prov. and no.)  
James Bush

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

1. Owner PPL Susquehanna, LLC Date 05/01/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address W/O 389672, 02-152-002  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System HPCI TURBINE & AUX SYSTEM 152B, CLASS I

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 (\* SEE 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)
1) VALVE (BODY)	ANCHOR DARLING	E5853-22-1	N/A	HV155F003	1975	REPAIRED	YES
2) VALVE (DISC)	ANCHOR DARLING	U6802	N/A	HV155F003	1994	REPLACED	YES
3) VALVE (DISC)	BW/IP	Y470	N/A	HV155F003	1998	REPLACEMENT	YES
4) VALVE (DISC)	BW/IP	Y470	N/A	HV155F003	1998	REPAIRED	YES

7. Description of Work REPAIRED VALVE GUIDE BY WELDING, REPLACED & FITTED NEW DISC.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE REMARKS SECTION)  
 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 ATTACHED. CODE OF CONSTRUCTION ORIGINAL VALVE '71 ED '72

Applicable Manufacturer's Data Reports to be attached

ADD CC 1334-2, 1516-1, 1534, 1535-2. REPLACEMENT DISC '71 ED '72 ADD NO CC.

TESTING PERFORMED: VT-3 PER NDE-VT-003.

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  Date May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-12-02 to 3-22-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 A/N/I/B/NS Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements  
Date June 3 2002

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., Two North Ninth St., Allentown, PA  
(Name and address of N Certificate Holder for completed nuclear component) 18101-1179  
2. Identification-Certificate Holder's Serial No. of Part S/N Y470 Nat'l Bd. No. N/A  
(a) Constructed According to Drawing No. D13507 Drawing Prepared by BW/IP International, Inc.  
(b) Description of Part Inspected Disc Heat # E3545 SA216-WCB  
(c) Applicable ASME Code: Section III, Edition 1971, Addenda date W72, Case No. - Class 1  
3. Remarks: 10" - 600# FW Gate  
(Brief description of service for which component was designed)  
Shop Order #P785D-2

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 11/30 1998 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 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 122-5708 1-30-98 1998 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 1-30 1998  
Charles Young Inspector's Signature Commission 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 1-3 on this Data Report is contained on each sheet, and the word sheet is indicated and number of sheets is recorded on 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 PPL Susquehanna, LLC Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
SEE ATTACHED LIST  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System HPCI TURBINE AND AUXILIARY SYSTEM 152B, 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 (\* SEE ATTACHED SHEET)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	YARWAY	5636	N/A	155019	1976	REPLACED	YES
2) VALVE	FLOWERVE	E-660A-1-17	N/A	155019	1999	REPLACEMENT	YES
3) VALVE	YARWAY	5612	N/A	155020	1976	REPLACED	YES
4) VALVE	FLOWERVE	E-660A-1-9	N/A	155020	1999	REPLACEMENT	YES
5) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDBB114-4	1982	REPLACED	YES
6) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPDBB114-4	2000	REPLACEMENT	NO
7) STEM/DISC ASSEMBLY	YARWAY	6392	N/A	1RV-LSH-1N014	1976	REPLACED	YES

7. Description of Work SEE ATTACHED SHEET
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ (SEE ATTACHED SHEET)  
 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

## 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  Date May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-11-00 to 9-7-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 A/N/I/B/NS Pa 2361  
Inspector's Signature National Board, State/Province, and Endorsements

Date June 3 20 02

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

1. Owner <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Date <u>05/13/2002</u> Sheet <u>2</u> of <u>3</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>ONE</u> <u>See Attached List</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>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 <u>HPCI TURBINE AND AUXILIARY SYSTEM 152B, CLASS II</u>	
5. (a) Applicable Construction Code <u>III*</u> 19 <u>71</u> Edition, <u>thru W72</u> Addenda, <u>*</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u> (* SEE ATTACHED SHEET)	
6. Identification of Components Repaired or Replaced and Replacement Components	

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) STEM/DISC ASSEMBLY	YARWAY	TEZG-B9	N/A	1RV-LSH-1N014	2000	REPLACEMENT	YES
9) BACKSEAT BUSHING	YARWAY	6392	N/A	1RV-LSH-1N014	1976	REPLACED	YES
10) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-LSH-1N014	2000	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 PPL Susquehanna, LLC Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 3 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE ATTACHED LIST BELOW  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System HPCI TURBINE AND AUXILIARY SYSTEM 152B, CLASS II

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 CODE EDITION BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	TESTING	CODE EDITION/ADD (ASME SECT. III)
1-6	261756	00-152-002	REPLACED VALVES 155019 & 155020 AND ASSOCIATED PIPING.	NON VT-2 PER MI-PS-008	ORIG VALVES, '74 ED W'74 ADD. REPLACEMENT VALVE(S) '86 ED NO ADD.
7-10	261367	00-152-003	1RV-LSH-1N014, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE, '74 ED W'74 ADD. REPLACEMENT PARTS '86 ED NO ADD.

Pg. 1 of 2

## FORM NPV-1 (back)

8. Remarks 1" - 1500# Y-Globe Valve w/10" Tee Handle  
Reference S.O. E-660A-1

9. Design conditions 2673 psi 680 °F or valve pressure class 1500# (1)  
(pressure) (temperature)

10. Cold working pressure 3705 psi at 100°F

11. Hydrostatic test 5575 psi. Disk differential test pressure 4076 psi

## CERTIFICATION OF DESIGN

Design Specification certified by Matthew Hober P.E. State PA Reg. no. 20118E  
Design Report certified by T. C. Bartlett P.E. State PA Reg. no. 039036E

## 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. N1712 Expires 4/15/01  
Date 3/12/99 Name Flowserve Corp. Signed R. L. Stannett  
(IN 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 ~~MASSACHUSETTS~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 2/19/99 3-15, 19 99, 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 loss of any kind arising from or connected with this inspection.

Date 3-15-99 Signed Charles Young Commissions Pennsylvania 2392  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

WIP ORDER 5028781

LES ORDER NO 2026063

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  
(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 PSI MIN. N/A 2000  
(drawing no.) (mat'l spec. no.) (tensile strength) (CRM) (year built)
5. ASME Code, Section III: 1988 NONE 1 ---  
(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) TEZG-B1 ✓	---	(26)	
(2) TEZG-B2 ✓	---	(27)	
(3) TEZG-B3 ✓	---	(28)	
(4) TEZG-B4 ✓	---	(29)	
(5) TEZG-B5 ✓	---	(30)	
(6) TEZG-B6 ✓	---	(31)	
(7) TEZG-B7 ✓	---	(32)	
(8) TEZG-B8 ✓	---	(33)	
(9) TEZG-B9 ✓	---	(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)	

FTI  
OP SUP  
PEG

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

## 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 ASSEMBLY, 1 INCH  
conforms to the rules of construction of the ASME Code, Section III.

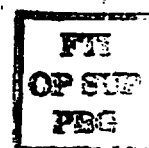
NPT Certificate of Authorization No. N-2450 Expires November, 14, 2001

Date 4/6/00 Name YARWAY CORPORATION 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 of Province of  
PENNSYLVANIA and employed by FACTORY MUTUAL INSURANCE COMPANY  
of Johnston, RI have inspected these items described in this Data Report on             
and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the  
ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.  
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in  
this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or  
loss of any kind arising from or connected with this inspection.

Date 04/06/00 Signed *[Signature]* Commissions PA 2389'N'  
(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 PPL Susquehanna, LLC Date 05/31/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

Authorization No. N/A  
 Expiration Date N/A

4. Identification of System STANDBY LIQUID CONTROL SYSTEM 153A, CLASS II

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 (\* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) SQUIBB VALVE INLET FITTING	CONAX	GE-562-EQ 5759	5759	HV148F004A	1999	REPLACED	YES
2) SQUIBB VALVE INLET FITTING	CONAX	GE-617-EQ 6124	6124	HV148F004A	2001	REPLACEMENT	YES
3) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-562-EQ 5734	5734	HV148F004A	1999	REPLACED	YES
4) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-617-EQ 6099	6099	HV148F004A	2001	REPLACEMENT	YES
5) SQUIBB VALVE INLET FITTING	CONAX	GE-561-EQ 5758	5758	HV148F004B	1999	REPLACED	YES
6) SQUIBB VALVE INLET FITTING	CONAX	GE-616-EQ 6123	6123	HV148F004B	2001	REPLACEMENT	YES
7) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-561-EQ 5733	5733	HV148F004B	1999	REPLACED	YES

7. Description of Work SEE ATTACHED LIST

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 CODE DATA SHEETS ATTACHED. ORIGINAL CONAX & UNION PUMP VALVE CODE OF  
Applicable Manufacturer's Data Reports to be attached

CONST: 1968 DRAFT PUMP & VALVE CODE. CONAX REPLACEMENT PARTS ASME SEC III

1977 ED SUM 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 June 12, 2002  
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 FACTORY MUTUAL INSURANCE CO. of  
JOHNSTON, RHODE ISLAND

have inspected the components described  
in this Owner's Report during the period 11-29-01 to 4-3-02, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be 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. Pigeon Commissions NB 7980 A, N, I, B, NS PA 2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 17 2002

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

1. Owner PPL Susquehanna, LLC Date 05/31/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE SHT 3 OF 3  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System STANDBY LIQUID CONTROL SYSTEM 153A, CLASS II

5. (a) Applicable Construction Code III\* 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-616-EQ 6098	6098	HV148F004B	2001	REPLACEMENT	YES
9) PUMP (PLUNGERS)	UNION PUMP	284222	N/A	1P208A	1973	REPLACED	YES
10) PUMP (PLUNGERS)	GE	N/A	N/A	1P208A	1985	REPLACEMENT	NO
11) PUMP (PLUNGERS)	UNION PUMP	284223	N/A	1P208B	1973	REPLACED	YES
12) PUMP (PLUNGERS)	GE	N/A	N/A	1P208B	1989	REPLACEMENT	NO
13) PUMP (PLUNGERS)	UNION PUMP	284222	N/A	1P208A	1973	REPLACED	YES
14) PUMP (PLUNGERS)	GE	N/A	N/A	1P208A	1991	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 PPL Susquehanna, LLC Date 05/31/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 3 of 3  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE LIST BELOW  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System STANDBY LIQUID CONTROL SYSTEM 153A, CLASS II

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 (\* SEE REMARKS SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK ORDER		DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	307880	01-153-001	HV-143F004A, REPLACED INLET FITTING & TRIGGER ASSMEBLY	VT-2 PER SE-153-301 TEMP 66.8°F /PRESS 1418 PSIG
5-8	302962	01-153-002	HV-143F004B, REPLACED INLET FITTING & TRIGGER ASSMEBLY	VT-2 PER SE-153-301 TEMP 66.8°F /PRESS 1418 PSIG
9-10	S84029	02-153-001	1P208A, REPLACED PLUNGERS	NON VT-2 PER MI-PS-008
11-12	S84030	02-153-002	1P208B, REPLACED PLUNGERS	NON VT-2 PER MI-PS-008
13-14	102216	02-153-003	1P208A, REPLACED PLUNGERS	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 2

1. Manufactured and certified by IST-Conax Nuclear, Inc. 402 Sonwll Drive, Cheektowaga, NY 14225  
(name and address of NPT Certificate Holder)

2. Manufactured for GE Nuclear Energy, 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 2001  
(drawing no.) (mat'l spec. no.) (tensile strength) (CRMO) (year built)

5. ASME Code, Section III, Division 1: 77 577 1 N/A  
(edition) (addenda date) (class) (Code Case no.)

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

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.) .815" Length overall (ft & in.) 2.245"

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) 6117	6117
(2) 6118	6118
(3) 6119	6119
(4) 6120	6120
(5) 6121	6121
(6) 6122	6122
(7) 6123	6123
(8) 6124	6124
(9) 6125	6125
(10) 6126	6126
(11) 6127	6127
(12) 6128	6128
(13) 6129	6129
(14) 6130	6130
(15) 6131	6131
(16) 6132	6132
(17) 6133	6133
(18) 6134	6134
(19) 6135	6135
(20) 6136	6136
(21) 6137	6137
(22) 6138	6138
(23) 6139	6139
(24) 6140	6140
(25) 6141	6141

Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1500 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.

5  
GES

9/15/2001

FORM N-2 (Back - Pg. 2 of 2)

007B

Certificate Holder's Serial Nos. 6117 through 8141

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, 2001

Date 5/22/01 Name IST Conax Nuclear Signed Paul E. Cluck  
(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 MAY 22, 2001, 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 5-31-01 Signed [Signature] Commissions NB 10984AN NY 5057  
(Authorized Inspector) (Nat'l Bd. and state or prov. and no.)



9/25/2001

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

006A

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 IST Conax Nuclear, 402 Sonwll Drive, Cheektowaga, NY 14225  
(Name and address of NPT Certificate Holder)

2. Manufactured for GE Nuclear Energy, 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 2001  
(drawing no.) (mat'l spec. no.) (tensile strength) (CRN) (year built)

5. ASME Code, Section III, Division 1: 77 577 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 2.6".

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:

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 6092	6092
(2) 6093	6093
(3) 6094	6094
(4) 6095	6095
(5) 6096	6096
(6) 6097	6097
(7) 6098	6098
(8) 6099	6099
(9) 6100	6100
(10) 6101	6101
(11) 6102	6102
(12) 6103	6103
(13) 6104	6104
(14) 6105	6105
(15) 6106	6106
(16) 6107	6107
(17) 6108	6108
(18) 6109	6109
(19) 6110	6110
(20) 6111	6111
(21) 6112	6112
(22) 6113	6113
(23) 6114	6114
(24) 6115	6115
(25) 6116	6116

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
(31)	
(32)	
(33)	
(34)	
(35)	
(36)	
(37)	
(38)	
(39)	
(40)	
(41)	
(42)	
(43)	
(44)	
(45)	
(46)	
(47)	
(48)	
(49)	
(50)	

10. Design pressure 1500 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.

5  
GES

9/25/201

FORM N-2 (Back - Pg. 2 of 2)

0068

Certificate Holder's Serial Nos. 6092 through 6116

## 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 Subassembly  
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1850 Expires September 2, 2001Date 5/22/01 Name IST Conax Nuclear Signed Paul E. Clouchma  
(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 Companyof Hartford, CT have inspected these items described in this Data Report on MAY 22, 2001, 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 5-22-01 Signed [Signature] Commissions NB 10964AN NY 5057  
(Authorized Inspector) (Nat'l Bd. Incl. endorsement and state or prov. and no.)

9/25/2001

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

1. Owner PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System CONTROL ROD DRIVE HYDRAULIC SYSTEM 155B, CLASS II
5. (a) Applicable Construction Code III\* 19 74 Edition, thru W75 Addenda, \*1567,1644-4 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 \* 1644-8 (\* SEE SECTION 9)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1283	N/A	HCU-4239	1975	REPLACED	YES
2) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8465	N/A	HCU-4239	2000	REPLACEMENT	YES
3) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1338	N/A	HCU-3451	1975	REPLACED	YES
4) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8354	N/A	HCU-3451	1999	REPLACEMENT	YES
5) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1447	N/A	HCU-0227	1975	REPLACED	YES
6) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8506	N/A	HCU-0227	2000	REPLACEMENT	YES
7) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1138	N/A	HCU-1839	1975	REPLACED	YES

7. Description of Work SEE ATTACHED LIST
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 CODE DATA REPORTS ATTACHED. GE Accumulators: ASME VIII, (Year 1975) '94Ed '94Add

Applicable Manufacturer's Data Reports to be attached

(Year 1999) '98 Ed '98 Add (Year 2000) '98 Ed '99 Add. Original Henry Vogt Valve Sec III (Year 1974) '71

W'72 Add, (Year 1975) '74 Ed No Add, Replacement Disc(s) Sec III '71 Ed W'71 Add. Original Dragon

Valve 1974 Edition Summer 1975 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 \_\_\_\_\_

Signed

[Signature]  
Owner or Owner's Designee, Title

Supv. - Site Modifications Group

Date

May 31

2002

## 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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-24-00 to 3-28-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]  
Inspector's Signature

Commissions

NB8845 A/N/I/B/NS Pa2361  
National Board, State, Province, and Endorsements

Date

June 3 2002

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

1. Owner PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System CONTROL ROD DRIVE HYDRAULIC SYSTEM 155B, CLASS II
5. (a) Applicable Construction Code III\* 19 74 Edition, thru W75 Addenda, \*1567,1644-4 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 \* 1644-8 (\* SEE SECTION 9)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8129	N/A	HCU-1839	1999	REPLACEMENT	YES
9) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1923	N/A	HCU-2619	1975	REPLACED	YES
10) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8358	N/A	HCU-2619	1999	REPLACEMENT	YES
11) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1326	N/A	HCU-3811	1975	REPLACED	YES
12) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8130	N/A	HCU-3811	1999	REPLACEMENT	YES
13) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1377	N/A	HCU-4255	1975	REPLACED	YES
14) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8590	N/A	HCU-4255	2000	REPLACEMENT	YES
15) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1317	N/A	HCU-3411	1975	REPLACED	YES
16) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8546	N/A	HCU-3411	2000	REPLACEMENT	YES
17) VALVE (STEM/DISC)	DRAGON	EM # 1702 (VALVE)	N/A	HCU-4631 VALVE # 147F101	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 PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System CONTROL ROD DRIVE HYDRAULIC SYSTEM 155B, CLASS II
5. (a) Applicable Construction Code III\* 19 74 Edition, thru W'75 Addenda, \*1567,1644-4 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 \* 1644-8 (\* SEE SECTION 9)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) VALVE (STEM/DISC)	DRAGON	HT # 46190	N/A	HCU-4631 (VALVE 147F101)	1983	REPLACEMENT	NO
19) VALVE GATE	HENRY VOGT	985-181441	N/A	HCU-4219 (VALVE 147101)	1974	REPLACED	YES
20) VALVE GATE	HENRY VOGT	TRACE CODE # WAS	N/A	HCU-4219 (VALVE 147101)	1996	REPLACEMENT	YES
21) VALVE GATE	HENRY VOGT	836-181441	N/A	HCU-4611 (VALVE 147101)	1974	REPLACED	YES
22) VALVE GATE	HENRY VOGT	TRACE CODE # WAY	N/A	HCU-4611 (VALVE 147101)	1996	REPLACEMENT	YES
23) VALVE GATE	HENRY VOGT	855-181441	N/A	HCU-0243 (VALVE 147101)	1974	REPLACED	YES
24) VALVE GATE	HENRY VOGT	659-214668 (REMOVED FROM VALVE)	N/A	HCU-0243 (VALVE 147101)	1977	REPLACEMENT	YES
25) VALVE BONNET	HENRY VOGT	855-181441	N/A	HCU-0243 (VALVE 147101)	1974	REPLACED	YES
26) VALVE BONNET	HENRY VOGT	659-214668 (REMOVED FROM VALVE)	N/A	HCU-0243 (VALVE 147101)	1977	REPLACEMENT	YES
27) VALVE GATE	HENRY VOGT	485-181441	N/A	HCU-4239 (VALVE 147101)	1974	REPLACED	YES
28) VALVE GATE	HENRY VOGT	TRACE CODE # WAY	N/A	HCU-4239 (VALVE 147101)	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 PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 4 of 5  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 See Attached List  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System CONTROL ROD DRIVE HYDRAULIC SYSTEM 155B, CLASS II
5. (a) Applicable Construction Code III\* 19 74 Edition, thru W'75 Addenda, \*1567,1644-4 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 \* 1644-8 (\* SEE SECTION 9)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) VALVE GATE	HENRY VOGT	248-181441	N/A	HCU-5439 (VALVE 147101)	1974	REPLACED	YES
30) VALVE GATE	HENRY VOGT	TRACE CODE # WAY	N/A	HCU-5439 (VALVE 147101)	1996	REPLACEMENT	YES
31) VALVE GATE	HENRY VOGT	24-202390	N/A	HCU-1419 (VALVE 147101)	1975	REPLACED	YES
32) VALVE GATE	HENRY VOGT	TRACE CODE # WAY	N/A	HCU-1419 (VALVE 147101)	1996	REPLACEMENT	YES
33) VALVE GATE	HENRY VOGT	899-181441	N/A	HCU-1819 (VALVE 147101)	1974	REPLACED	YES
34) VALVE GATE	HENRY VOGT	TRACE CODE # WAS	N/A	HCU-1819 (VALVE 147101)	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 PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Sheet 5 Of 5  
 2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
SEE ATTACHED LIST  
Repair Organization P.O. No., Job No., etc.  
 3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System CONTROL ROD DRIVE HYDRAULIC SYSTEM 155B, CLASS II

5. (a) Applicable Construction Code III\* 19 74 Edition, thru W75 Addenda, \*1567,1644-4 Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89\* \* 1644-8 (\* SEE SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

TEM(S) )	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	220241	00-155-002	HCU-4239, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
3-4	203030	00-155-006	HCU-3451, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
5-6	229501	00-155-008	HCU-0227, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
7-8	229503	00-155-009	HCU-1839, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
9-10	229504	00-155-010	HCU-2619, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
11-12	259805	00-155-013	HCU-3811, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
13-14	292502	01-155-001	HCU-4255, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
15-16	344435	01-155-002	HCU-3411, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
17-18	383157	02-155-001	HCU-4631, REPLACED STEM/DISC IN VALVE 147F101	NON-VT-2 LEAK TEST PER MT-055-002
19-20	282920	02-155-004	HCU-4219, REPLACED DISC IN VALVE 147101	NON-VT-2 LEAK TEST PER MT-055-002
21-22	248235	02-155-005	HCU-4611, REPLACED DISC IN VALVE 147101	NON-VT-2 LEAK TEST PER MT-055-002
23-26	248236	02-155-006	HCU-0243, REPLACED DISC AND BONNET IN VALVE 147101	NON-VT-2 LEAK TEST PER MI-PS-008
27-28	346326	02-155-007	HCU-4239, REPLACED DISC IN VALVE 147101	NON-VT-2 LEAK TEST PER MI-PS-008
29-30	350228	02-155-008	HCU-5439, REPLACED DISC IN VALVE 147101	NON-VT-2 LEAK TEST PER MI-PS-008
31-32	307655	02-155-009	HCU-1419, REPLACED DISC IN VALVE 147101	NON-VT-2 LEAK TEST PER MI-PS-008
33-34	307657	02-155-010	HCU-1819, REPLACED DISC IN VALVE 147101	NON-VT-2 LEAK TEST PER MI-PS-008

# 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 and 2 Berwick, Pennsylvania 18603  
 (Name and address of purchaser)

3. Location of Installation Not known  
 (Name and address)

4. Type Vertical 8465 N/A 112D3405G001 Rev 03 N/A 2000  
 (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 specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1998 to 1999 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. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seam Seamless N/A  
 Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial or Full) No. of Courses

8. Heads: (a) Matl. SA182-F304 (b) Matl. 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	2.845"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.845"	0.005"	-	-	-	-	-	7.220"	Flathead

If removable, bolts used (describe other fastenings)

(Matl., 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:

No.	Drain or Size	Type	Matl.	Nom. Thickness	Reinforcement Material	How Attached	Location
1	0.75"	Opening	SA182-F304	N/A	N/A	N/A	N/A
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, 2002

Date 01/22/01

Co. Name GE-NE  
 (Manufacturer)

Signed

[Signature]  
 (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 1/23/01, 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 loss of any kind arising from or connected with this inspection.

Date 1/23/01

Signed [Signature]  
 (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 8354 N/A 112D3405 G001 Rev 03 N/A 1999  
 (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 1998 to 1998 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., 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	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 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, 2002.

Date 09/13/99 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 9/13, 1999, 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 9/13/99 Signed [Signature] 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

2. Manufactured for \_\_\_\_\_  
(Name and address of manufacturer)  
Susquehanna Land 2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of Installation Not known  
(Name and address)

4. Type Vertical 8506 N/A 112D3405G001 Rev 03 N/A 2000  
(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 specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1998 to 1999 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. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seam Seamless N/A  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff (%) H.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	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	2.845"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.845"	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:

se (Inlet, at, 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, 2002

Date 01/22/01

Co. Name GE-NE  
(Manufacturer)

Signed [Signature]  
(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 10/18, 2000, and state that, to

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

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

Date 1/23/01 Signed [Signature]  
(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 8129 N/A 112D3405 G001 Rev 03 N/A 1999  
 (Horiz. or vert. tank) (Mfr's serial No.) (CHN) (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 1998 to 1998 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. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: Seamless N/A  
 Long. (Welded, Dbl., Sngl., Lap, Butt) RT. (Spot or Full) ET. (%) H.T. Temp. (F) Time (hr) Girth (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

11. Supports: Skirt 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, 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, 2002.

Date 09/13/99

Co. name

GE-NE

(Manufacturer)

Signed

CE 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 9/13, 1999, 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

9/13/99

Signed

James P. Emery  
(Authorized Inspector)

Commissioner

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 8358 N/A 112D3405 G001 Rev 03 N/A 1999  
 (Horiz. or vert. tank) (Mfr's serial No.) (CHN) (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 1998 to 1998 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. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: Seamless N/A  
 Long. (Welded, Dbl., Sngl., Lap, Butt) RT. (Spot or Full) Eff. (%) RT. Temp. (F) Time (hr) Girth (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)	<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) (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, 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, 2002

Date 09/13/99

Co. name

GE-NE

(Manufacturer)

Signed

CS 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 9/13, 1999, 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 9/13/99 SignedJaime P. Evers

(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**

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 8130 N/A 112D3405 G001 Rev 03 N/A 1999  
(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 1998 to 1998 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. I.D. (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	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) (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, 2002.

Date 09/13/99

Co. name

GE-NE(Manufacturer)

Signed

C. 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 9/13, 1999, 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 9/13/99 SignedJames P. Lewis(Authorized Inspector)

Commission

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 Land2 Berwick, Pennsylvania 18603  
(Name and address of purchaser)

3. Location of Installation Not known  
(Name and address)

4. Type Vertical 8590 N/A 112D3405G001 Rev 03 N/A 2000  
(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 specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, And workmanship conform to ASME Rules, Section VIII, Division 1 1998 to 1999 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. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seam Seamless N/A  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.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 (Spec. No. Grade) (b) Mat'l. SA182-F304 (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	2.845"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.845"	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:

Noze (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, 2002

Date 01/22/01

Co. Name GE-NE  
(Manufacturer)

Signed [Signature]  
(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 7/20, 2000, and state that, to

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

Date 1/23/01 Signed [Signature] 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 Land2 Berwick, Pennsylvania 18603  
 (Name and address of purchaser)

3. Location of Installation Not known  
 (Name and address)

4. Type Vertical 8546 N/A 112D3405G001 Rev 03 N/A 2000  
 (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 specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1998 to 1999 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. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seam Seamless N/A  
 Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff (%) H.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 (Spec. No. Grade) (b) Mat'l. SA182-F304 (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	2.845"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.845"	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 AMSE Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 2002

Date 01/22/01Co. Name GE-NE

(Manufacturer)

Signed [Signature]

(Representative)

**CERTIFICATE OF SHOP INSPECTION**Vessel constructed by GE-NE at Wilmington, North CarolinaI, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of North Carolinaand employed by Department of Labor have inspected the component described in this Manufacturer's Data Report on 1/27, 2000, and state that, to

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 loss of any kind arising from or connected with this inspection.

Date 1/23/01Signed [Signature]

(Authorized Inspector)

Commissions

NC 1231, Ohio, WC 3686 PA

(Nat'l. Board (incl. Endorsements), State, Prov. And No.)

## FORM N-2 MANUFACTURERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES\*

As required by the Provisions of the ASME Code Rules

6/4/96 R. J. J.

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 - 6A1876 (chemistry on SA 479 T410)
- (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. By [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 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 96Inspector's Signature [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 1-2 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".

GE  
195

JUN 05 1996

# 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 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 gates - Material Code WAY (SA479T410)
- (c) Applicable ASME Code: Section III, Edition 1971, Addenda W71, Case No. --- Class 1
3. Remarks: Replacement parts  
(Brief description of service for which component was designed)

G.E. P.O. #5886

Order 217328 - 5 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 10/30 19 96 Signed Henry Vogt Mach. Co. Barbara Bunge  
(Manufacturer) Certificate of Authorization Expires 1/6/99 Certificate of Authorization No. N-947

## CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

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

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

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

Stress analysis report certified by \_\_\_\_\_ Prof. Eng. Seane 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 October 14, 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 Oct. 30 19 96

Ralph E. Murphy  
Inspector's Signature

Commissions Kentucky #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 report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".



OCT 31 1996

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES  
 ASME Code Section III, Div. 1

(AS Required by the Provisions of the ASME Code, Section III, Div. 1)

(See Attached)

(Brief description of service for which equipment was designed)

°F or Valve Pressure Class

(1)

PT-2000

psi at 100°F.

**ASME**  
Code Book

• 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.

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

9. Hydrostatic test 3000 psi

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.

Winter, 1975. Code Case No. \_\_\_\_\_ Date August 12, 1977

Addenda \_\_\_\_\_

Signed Henry Vogt Machine Co. by Walter Proeger  
(Manufacturer)

Our ASME Certificate of Authorization No. 947 to use the N symbol expires 2/6/78  
(In (N)) (Date)

Design information on file at \_\_\_\_\_ Henry Vogt Machine Co.  
Stress analysis report (Class 1 only) on file at \_\_\_\_\_ Henry Vogt Machine Co.

Design specifications certified by (1) \_\_\_\_\_ Vernon Pance  
PE State CA Reg. No. \_\_\_\_\_ 14488  
Stress analysis certified by (1) \_\_\_\_\_ R. S. Perry  
PE State KY Reg. No. \_\_\_\_\_ 5380

(1) Signature not required. Last name only.

I, the undersigned, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Kentucky and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on August 10, 1977 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section 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 accident, injury or property damage or a loss of any kind arising from or connected with this inspection.

Date August 12, 1977 [Signature] Commissions Kentucky #1  
I hereby certify that the above is a true and correct copy of the original as filed in my files.

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

1. Owner PPL Susquehanna, LLC Date 05/29/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 PCWO # 312787 CRF # 02-159-001  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System CONTAINMENT VACUUM RELIEF, 159C, CLASS II

5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* See Remarks Section)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (BOLT)	ANDERSON GREENWOOD	VB141	N/A	PSV15704B1	1976	REPLACED	YES
2) VALVE (BOLT)	PPL	N/A	N/A	PSV15704B1	2002	REPLACEMENT	NO

7. Description of Work REPLACED DAMAGED BOLT

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (NON VT-2 PER MI-PS-008)  
 Other ☐ Pressure \_\_\_\_\_ psi Test \_\_\_\_\_ °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 THIS VALVE WAS NOT REPORTED IN ORIGINAL N-5 DATA.

Applicable Manufacturer's Data Reports to be attached

VALVE ORIGINAL DESIGN PER ASME III 1971 EDITION WITH SUMMER '73 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 June 12, 20 02  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-16-02 to 4-16-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Regan Commissions NB 7980 A, N, I, B, NS PA 2201  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 17 2002

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

1. Owner PPL Susquehanna, LLC Date 05/24/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 298585 CRF # 02-159-001  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A
4. Identification of System CONTAINMENT PRESSURE VESSEL, 159A, CLASS MC.
5. (a) Applicable Construction Code ASME Sec III 19 71 Edition, thru S'72 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) CRD HATCH (NUT)	CB&I	N/A	N/A	X-006	1975	REPLACED	NO
2) CRD HATCH (NUT)	PP&L	N/A	N/A	X-006	2002	REPLACEMENT	NO

7. Description of Work REPLACED MISSING NUT
8. Tests Conducted: ☐ Other ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE REMARKS SECTION)  
 Pressure ☐ psi Test ☐ °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 PENETRATIONS ORIGINAL DESIGN PER ASME III NE 1971 WITH SUMMER '72 ADD.

Applicable Manufacturer's Data Reports to be attached

CC: 1493,1522,1567,1571. TESTING: NON VT-2 PER MI-PS-008. LLRT PER SE-159-001. VT-1 OF NEW

REPLACEMENT NUT.

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 24, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-19-02 to 3-20-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Pigeon III Commissions NB7980A,N,I,B,NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 28 2002

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

1. Owner PPL Susquehanna, LLC Date 05/14/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
See Attached List  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A
4. Identification of System REACTOR WATER CLEAN-UP SYSTEM 161A, CLASS III
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 CC N-416-1 (\* SEE ATTACHED LIST)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	HILLS MCCANNA	106-773	N/A	145042B	N/A	REPLACED	YES
2) VALVE	BNL	A000503-1-2	N/A	145042B	2000	REPLACEMENT	YES
3) VALVE	HILLS MCCANNA	101-773	N/A	145043B	N/A	REPLACED	YES
4) VALVE	BNL	A000503-1-1	N/A	145043B	2000	REPLACEMENT	YES
5) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPEBC103-7	1982	REPLACED	YES
6) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPEBC103-7	2000	REPLACEMENT	NO
7) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPHBC102-2	1982	REPLACED	YES

7. Description of Work SEE ATTACHED LIST
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 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 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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 5-3-00 to 1-24-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB 8845 A/N/I/B/N/S Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002

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

1. Owner PPL Susquehanna, LLC Date 05/14/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 2 of 8  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 See Attached List  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System REACTOR WATER CLEAN-UP SYSTEM 161A, CLASS III
5. (a) Applicable Construction Code III\* 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N-416-1 (\* SEE ATTACHED LIST)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPHBC102-2	2000	REPLACEMENT	NO
9) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPEBC103-H2013	1982	REPLACED	YES
10) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPEBC103-H2013	2000	REPLACEMENT	NO
11) VALVE	BNL	A960201-1-2	N/A	145029A	1996	REPLACED	YES
12) VALVE	BNL	A000308-1-1	N/A	145029A	2000	REPLACEMENT	YES
13) VALVE	BNL	A000308-1-1	N/A	145029A	2000	REPAIRED	YES
14) VALVE (BALL)	BNL	A960201-2-3 (VALVE)	N/A	HV14512B	1996	REPLACED	YES
15) VALVE (BALL)	BNL	A000305-1-2	N/A	HV14512B	2000	REPLACEMENT	YES
16) VALVE (BALL)	BNL	A960201-1-3 (VALVE)	N/A	145029B	1996	REPLACED	YES
17) VALVE (BALL)	BNL	A000305-1-3	N/A	145029B	2000	REPLACEMENT	YES
18) SMALL PIPE BOLTING	BECHTEL	N/A	N/A	SPEBC107-2	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 PPL Susquehanna, LLC Date 05/14/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address See Attached List  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System REACTOR WATER CLEAN-UP SYSTEM 161A, CLASS III

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 CC N-416-1 (\* SEE ATTACHED LIST)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
19) SMALL PIPE BOLTING	PP&L	N/A	N/A	SPEBC107-2	2000	REPLACEMENT	NO
20) VALVE (BALL)	BNL	A960201-2-3 (VALVE)	N/A	HV14512B	1996	REPLACED	YES
21) VALVE (BALL)	BNL	A960201-2-4 (REMOVED FROM VALVE)	N/A	HV14512B	1996	REPLACEMENT	YES
22) VALVE (BODY)	BNL	A960201-2-3 (VALVE)	N/A	HV14512B	1996	REPLACED	YES
23) VALVE (BODY)	BNL	A960201-2-4 (REMOVED FROM VALVE)	N/A	HV14512B	1996	REPLACEMENT	YES
24) VALVE	BNL	A960201-2-3	N/A	HV14512B	1996	REPLACED	YES
25) VALVE	BNL	A000707-2-4	N/A	HV14512B	2000	REPLACEMENT	YES
26) VALVE	BNL	A000707-2-4	N/A	HV14512B	2000	REPAIRED	YES
27) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPEBC103-6	1982	REPLACED	YES
28) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPEBC103-6	2002	REPLACEMENT	NO
29) VALVE (DISC)	VALTEK	6538-1-1 (VALVE)	N/A	145060A	1971	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 PPL Susquehanna, LLC Date 05/14/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address See Attached List  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System REACTOR WATER CLEAN-UP SYSTEM 161A, CLASS III

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 CC N-416-1 (\* SEE ATTACHED LIST)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
30) VALVE (DISC)	FLOWERVE	HT # 720479	N/A	145060A	2000	REPLACEMENT	NO
31) VALVE	BNL	A960201-1-3	N/A	145029B	1996	REPLACED	YES
32) VALVE	BNL	A960202-1-1	N/A	145029B	1996	REPLACEMENT	YES
33) VALVE (BALL)	BNL	A960202-1-1 (VALVE)	N/A	145029B	1996	REPLACED	YES
34) VALVE (BALL)	BNL	A000607-1-(1)	N/A	145029B	2000	REPLACEMENT	YES
35) VALVE (PIPE PLUG)	VALTEK	6611-6-2	N/A	FV14566B	N/A	REPLACED	YES
36) VALVE (PIPE PLUG)	PP&L	N/A	N/A	FV14566B	2000	REPLACEMENT	NO
37) VALVE	HILLS McCANNA	143-673	N/A	HV-14507B	N/A	REPLACED	YES
38) VALVE	HILLS McCANNA	209-380	N/A	HV-14507B	1980	REPLACEMENT	YES
39) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPEBC107-4	1982	REPLACED	YES
40) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPEBC107-4	2000	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 PPL Susquehanna, LLC Date 05/14/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address See Attached List  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System REACTOR WATER CLEAN-UP SYSTEM 161A, CLASS III
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 CC N-416-1 (\* SEE ATTACHED LIST)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
41) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPHBC103-6	1982	REPLACED	YES
42) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPHBC103-6	2000	REPLACEMENT	NO
43) VALVE	HILLS McCANNA	144-673	N/A	HV-14507A	N/A	REPLACED	YES
44) VALVE	HILLS McCANNA	202-380	N/A	HV-14507A	1980	REPLACEMENT	YES
45) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPHBC103-6	1982	REPLACED	YES
46) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPHBC103-6	2000	REPLACEMENT	NO
47) VALVE	HILLS McCANNA	37-973	N/A	145039B	N/A	REPLACED	YES
48) VALVE	HILLS McCANNA	204-380	N/A	145039B	1980	REPLACEMENT	YES
49) VALVE	HILLS McCANNA	10-1273	N/A	HV-14528	N/A	REPLACED	YES
50) VALVE	BNL	A000707-2-2	N/A	HV-14528	2000	REPLACEMENT	YES
51) VALVE (BODY)	BNL	A000707-2-2 (VALVE)	N/A	HV-14528	2000	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 <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Date <u>05/14/2002</u> Sheet <u>6</u> of <u>8</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>ONE</u> <u>See Attached List</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>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 <u>REACTOR WATER CLEAN-UP SYSTEM 161A, CLASS III</u>	
5. (a) Applicable Construction Code <u>III*</u> 19 <u>71</u> Edition, <u>thru W72</u> Addenda, <u>*</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u> CC N-416-1 (* SEE ATTACHED LIST)	
6. Identification of Components Repaired or Replaced and Replacement Components	

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
52) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPHBC103-5	1982	REPLACED	YES
53) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPHBC103-5	2002	REPLACEMENT	NO
54) VALVE (BODY)	VALTEK	10423-1-2 (VALVE)	N/A	HV-14506B	N/A	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 PPL Susquehanna, LLC Date 05/14/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

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

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System REACTOR WATER CLEAN-UP SYSTEM 161A, 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 CC N-416-1 (\* SEE LIST BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	CODE OF CONSTRUCTION	DESCRIPTION OF TESTS
1-10	237156	00-161-014	REPLACED 145042B & 145043B, ASSOC PIPE SPEBC103-7, SPHBC102-2 & SPEBC103-H2013	ORIG. VALVE SEC III 1968 DRAFT P&V CODE. REPLACEMENT SEC III '74 ED NO ADD	NON VT-2 PER MI-PS-008
11-13	237158	00-161-015	145029A, REPLACED VALVE BY WELDING AND REPAIRED NEW VALVE BY MACHINING BODY FOR FIT TOLERANCES	EXISTING VALVE & REPLACEMENT VALVE SEC III 1974 ED NO ADD.	NON VT-2 PER MI-PS-008
14-15	257191	00-161-016	HV-14512B, REPLACED VALVE BALL	EXISTING VALVE & REPLACEMENT BALL SEC III 1974 ED NO ADD.	NON VT-2 PER MI-PS-008
16-17	238691	00-161-017	145029B, REPLACED VALVE BALL	EXISTING VALVE & REPLACEMENT BALL SEC III 1974 ED NO ADD.	NON VT-2 PER MI-PS-008
18-19	104460	00-161-018	SPEBC107-2, REPLACED SMALL PIPE FLANGE BOLTING	SEC III 1971 ED WINTER '72 ADD.	NON VT-2 PER MI-PS-008
20-23	274122	00-161-019	HV-14512B, REPLACED VALVE BY WELDING & BALL IN NEW VALVE DUE TO DAMAGE AT INSTALLATION	ORIG VALVE, ASME SEC III '71 ED NO ADD. REPLACEMENT PARTS REMOVED FROM VALVE S/N# A960201-2-4; '74 ED NO ADD.	NON VT-2 PER MI-PS-008
24-28	284142	00-161-020	HV-14512B, REPLACED VALVE & ASSOCIATED PIPE BY WELDING AND REPAIRED NEW VALVE BY MACHINING.	EXISTING VALVE & REPLACEMENT VALVE SEC III 1974 ED NO ADD.	NON VT-2 PER MI-PS-008
29-30	222469	00-161-021	145060A, REPLACED VALVE DISC.	ORIG. VALVE SEC III 1968 DRAFT P&V CODE.	NON VT-2 PER MI-PS-008
31-34	274126	00-161-022	145029B, REPLACED VALVE BY WELDING & BALL IN NEW VALVE DUE TO DAMAGE AT INSTALLATION	ALL VALVES & PARTS; SEC III 1974 ED NO ADD	NON VT-2 PER MI-PS-008.
35-36	233547	00-161-023	FV-14566B, REPLACED BONNET PIPE PLUG	ORIG. VALVE SEC III 1968 DRAFT P&V CODE.	NON VT-2 PER MI-PS-008.
37-42	288839	00-161-024	HV-14507B, SPHBC103-6 & SPEBC107-4, REPLACED VALVE & ASSOCIATED PIPE BY WELDING	ORIG. VALVE SEC III 1968 DRAFT P&V CODE. REPLACEMENT SEC III '77 ED NO ADD	VT-2 PER SE-000-017 TEMP 100°F/PRESS 1180 PSIG
43-46	293796	00-161-025	HV-14507A, SPHBC103-6, REPLACED VALVE & ASSOCIATED PIPE BY WELDING	ORIG. VALVE SEC III 1968 DRAFT P&V CODE. REPLACEMENT SEC III '77 ED NO ADD	VT-2 PER SE-000-017 TEMP 100°F/PRESS 1175 PSIG
47-48	293797	00-161-026	145039B, REPLACED VALVE BY WELDING	ORIG. VALVE SEC III 1968 DRAFT P&V CODE. REPLACEMENT SEC III '77 ED NO ADD	VT-2 PER SE-000-017 TEMP 100°F/PRESS 1180 PSIG

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

1. Owner PPL Susquehanna, LLC Date 05/14/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

Authorization No. N/A  
 Expiration Date N/A

4. Identification of System REACTOR WATER CLEAN-UP SYSTEM 161A, 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 CC N-416-1 (\* SEE LIST BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	CODE OF CONSTRUCTION	DESCRIPTION OF TESTS
49-53	289931	01-161-001	HV-14528, SPHBC103-5, REPLACED VALVE AND ASSOCIATED PIPE BY WELDING	ORIG. VALVE SEC III 1968 DRAFT P&V CODE. REPLACEMENT SEC III '74 ED NO ADD	NON VT-2 PER MI-PS-008
54	358812	02-161-001	HV-14506B, REPAIRED VALVE BONNET TO BODY SEATING SURFACE BY WELDING & GRINDING.	VALVE SEC III 1968 DRAFT P&V CODE	NON VT-2 PER MI-PS-008

**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

**Pg. 1 of 2**

1. Manufactured and certified by BNL INDUSTRIES, INC., 30 INDUSTRIAL PARK ROAD, VERNON, CT, 06066  
(name and address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO, TWO NORTH NINTH ST, ALLENTOWN, PA 18101  
(name and address of Purchaser)
3. Location of installation SUSQUEHANNA, 5 MI NE OF BERWICK, PA, 18603
4. Model No., Series No., or Type VALVE HBV-A2-10-0080 0 CRN  
Drawing Rev.
5. ASME Code, Section III, Division 1: 1974 - 3  
(edition) (addenda date) (class) (Code Case no.)
6. Pump or valve VALVE 1" 1"  
Nominal inlet size (in.) Outlet size (in.)
7. Material: Body SA-105 SA-105 SA-479 Ty316 SA-193GrB7/SA-194Gr2H  
Bonnet Disk Bolting

[illegible]

\* 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.

(12/80)

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

FORM NPV-1 (Back - Pg. 2 of 2)Certificate Holder's Serial No. A000503-1-(1THRU3)8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 600# (1)9. Cold working pressure 1420PSIG @ 150F psi at 100°F10. Hydrostatic test 2250 psi. Disk differential test pressure 1650 psi11. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## CERTIFICATION OF DESIGN

Design Specification certified by D.M. GROVES P.E. State PA Reg. no. 24926-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-2882N Certificate of Authorization No. \_\_\_\_\_ Expires 11/10/01Date 06/28/00 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 06/28/00 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 6-25-2000 Signed [Signature] Commission NB. 8504 AN CT 1414  
(Authorized Inspector) (Net'l. Bd. find. endorsements) and state or prov. and no.]

(1) For manually operated valves only.

Pg. 1 of 2

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

Certificate Holder's Serial No. A000308-1-1

ANSI 600#

(1)

8. Design conditions \_\_\_\_\_ (pressure) \_\_\_\_\_ psi \_\_\_\_\_ (temperature) \_\_\_\_\_ °F or valve pressure class \_\_\_\_\_
9. Cold working pressure 1405PSIG @ 150F psi at 100°F
10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi
11. Remarks: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

## CERTIFICATION OF DESIGN

Design Specification certified by D.M. GROVES P.E. State PA Reg. no. 24926-E

Design Report certified by \_\_\_\_\_ P.E. State \_\_\_\_\_ Reg. no. \_\_\_\_\_

## CERTIFICATE OF COMPLIANCE

We certify that the circumstances 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 Expires 11/10/01

N Certificate of Authorization No. \_\_\_\_\_

Date 06/01/00 Name BNL INDUSTRIES, INC. Signed [Signature] (Authorized Representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CONNECTICUT and employed by COMMERCIAL UNION INS.

of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 06/01/00 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 6-1-2000 Signed [Signature] Commission NB 6504 AN C114

(Authorized Inspector) (Part B, End, underlinings) 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

Pg. 1 of 2

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 18101  
(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 2000  
(drawing no.) (mat'l. spec. no.) (nominal strength) (ICRN) (year built)  
1974 3  
5. ASME Code, Section III, Division 1: \_\_\_\_\_  
(edition) (addenda date) (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
<u>✓ /</u> <u>A000305-1-(243) (BNL TRACE#N91)</u>		<u>(26)</u>	
<u>(1)</u>		<u>(27)</u>	
<u>(2)</u>		<u>(28)</u>	
<u>(3)</u>		<u>(29)</u>	
<u>(4)</u>		<u>(30)</u>	
<u>(5)</u>		<u>(31)</u>	
<u>(6)</u>		<u>(32)</u>	
<u>(7)</u>		<u>(33)</u>	
<u>(8)</u>		<u>(34)</u>	
<u>(9)</u>		<u>(35)</u>	
<u>(10)</u>		<u>(36)</u>	
<u>(11)</u>		<u>(37)</u>	
<u>(12)</u>		<u>(38)</u>	
<u>(13)</u>		<u>(39)</u>	
<u>(14)</u>		<u>(40)</u>	
<u>(15)</u>		<u>(41)</u>	
<u>(16)</u>		<u>(42)</u>	
<u>(17)</u>		<u>(43)</u>	
<u>(18)</u>		<u>(44)</u>	
<u>(19)</u>		<u>(45)</u>	
<u>(20)</u>		<u>(46)</u>	
<u>(21)</u>		<u>(47)</u>	
<u>(22)</u>		<u>(48)</u>	
<u>(23)</u>		<u>(49)</u>	
<u>(24)</u>		<u>(50)</u>	
<u>(25)</u>			

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.

## FORM N-2 (Back - Pg. 2 of 2)

A000305-1-(243) (BNL TRACE#N91)

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 11/10/01

Date 04/03/00 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 04/03/00 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 4/4/2000 Signed [Signature] Commissions NO. 6504 N.C. 1910  
(Authorized Inspector) (Nat'l. Bd. Inscr. endorsement) and state or prov. and no. 1

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

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

corrected

7/18/96

Pg. 1 of 2

1. Manufactured and certified by ENL 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 REV-A2-04-0061 Rev. B CRN
5. ASME Code, Section III, Division 1: 1974 7/15/96 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 Bolt/nut SA193GrB7/SA194Gr2H

[illegible]

\* 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.

1996 3:42PM

FROM BNL INDUSTRIES, INC. 8608706221

P.5

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

Certificate Holder's Serial No. A960201-2-(1thru4)8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ \*F or valve pressure class ANSI 600# (1)  
(pressure) (temperature)9. Cold working pressure 1405PSI @ 150F  
~~1405PSI @ 150F~~10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi11. 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

I 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 11/10/98Date 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 ROSTON 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 CT1343  
(Authorized Inspector) (Net'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

Pg. 1 of 2

[illegible]

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

## FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. A960201-1-(1thru4)

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 600# (1)  
(pressure) (temperature)
9. Cold working pressure 1405PSI @ 150F  
~~1405PSI @ 150F~~
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.  
(N Certificate Holder)

Signed [Signature]  
(Authorized representative)

## CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CT and employed by COMMERCIAL UNION F.I.S. of ROSTER 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.

**Pg. 1 of 2**

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

Certificate Holder's Serial No. A000707-2-(1THRU4)

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 600# (1)  
     [pressure] 1405PSIG @ 150F [temperature]
9. Cold working pressure \_\_\_\_\_ psi at 100°F
10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi
11. Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## CERTIFICATION OF DESIGN

Design Specification certified by D.M. GROVES P.E. State PA Reg. no. 24926-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

N Certificate of Authorization No. \_\_\_\_\_ Expires 11/10/01

Date 09/27/00 Name BNL INDUSTRIES, INC. Signed *[Signature]*  
     (IN 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 09/27/00 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 9-26-2002 Signed *[Signature]* Commissions NB. 9504 AN CT 14-14  
     (Authorized Inspector) (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.



Pg. 1 of 2

[illegible]

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

## FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. A960202-1-18. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 600# (1)  
(pressure) (temperature)9. Cold working pressure 1405PSI @ 150F  
~~1405PSI @ 150F~~10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi11. 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 11/10/98Date 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. of Boston, 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 151343  
(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

Pg. 1 of 2

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 18101  
(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 / 2000 /  
(drawing no.) (mat'l. spec. no.) (nominal strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1574 /  
(edition) (addenda date) (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
A000607-1-(1) (BNI)	TRACE#N91	(28)	
(1)		(27)	
(2)		(28)	
(3)		(29)	
(4)		(30)	
(5)		(31)	
(6)		(32)	
(7)		(33)	
(8)		(34)	
(9)		(35)	
(10)		(36)	
(11)		(37)	
(12)		(38)	
(13)		(39)	
(14)		(40)	
(15)		(41)	
(16)		(42)	
(17)		(43)	
(18)		(44)	
(19)		(45)	
(20)		(46)	
(21)		(47)	
(22)		(48)	
(23)		(49)	
(24)		(50)	
(25)			

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.

(12/84)

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

Reprint (7/91)

FORM N-2 (Back — Pg. 2 of 2)

A000607-1-(1) (BNL TRACE#N91)

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 11/10/01  
Date 06/28/00 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 06/28/00, 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 6-28-2000 Signed [Signature] (Authorized Inspector) Commissions NB 5504 AN 61919  
(Not'l. Bd. Insl. endorsement) and state or prov. and no.]

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 1, Inola, OK 74036  
(Name and Address)  
4. Pump or Valve Ball Valve Nominal Inlet Size 2" (inch) Outlet Size 2"

(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1) <u>2" S603</u>	<u>205-380</u>	<u>/</u>	<u>CEVA 2475</u>	<u>3</u>	<u>/</u>	<u>1980</u>
(3) <u>CS-E-S6</u>	<u>206-380</u>		<u>CEVA 2475</u>	<u>3</u>		<u>1980</u>
(4) <u></u>	<u>207-380</u>		<u>CEVA 2475</u>	<u>3</u>		<u>1980</u>
(5) <u></u>	<u>208-380</u>		<u>CEVA 2475</u>	<u>3</u>		<u>1980</u>
(6) <u></u>	<u>209-380</u>		<u>CEVA 2475</u>	<u>3</u>		<u>1980</u>
(7) <u></u>						
(8) <u></u>						
(9) <u></u>						
(10) <u></u>						

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

6. Design Conditions 1410 psi 150 °F or Valve Pressure Class 600 (1)  
(Pressure) (Temperature)  
7. Cold Working Pressure 1410 psi at 100°F  
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body <u>229-0234</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-15 Ht. #AJ560</u>
Bonnet <u>229-0624</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-53 Ht. #AJ755</u>
Body <u>229-0234</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-26 Ht. #AJ549</u>
Bonnet <u>229-0624</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-61 Ht. #AJ735</u>
Body <u>229-0234</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-16 Ht. #AJ538</u>
Bonnet <u>229-0624</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-58 Ht. #AJ753</u>
Body <u>229-0234</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-6 Ht. #AJ552</u>
Bonnet <u>229-0624</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-75 Ht. #AJ736</u>
Body <u>229-0234</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-17 Ht. #AJ543</u>
Bonnet <u>229-0624</u>	<u>SA 216 Gr. WCB</u>	<u>PRL Industries</u>	<u>Ser. #1079-51 Ht. #AJ749</u>
(b) Forgings			
<u></u>			
<u></u>			
<u></u>			
<u></u>			
<u></u>			
<u></u>			
<u></u>			
<u></u>			

(1) For manually operated valves only.

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

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
Stud	229-3305	SA 193 Gr. B7	Victor Products	Marking: "VB7DG"
Nut	919-2409	SA 194 Gr. 2H	Nuts, Inc.	Marking: "2HT NW8"
(d) Other Parts				
Ball	229-0746	SA 479 Type 316	Ryerson	Heat Code: "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. I, Edition 1977.

Addenda \_\_\_\_\_, Code Case No. \_\_\_\_\_, Date \_\_\_\_\_

Signed Hills McCanna Company by John L. Heidemeich  
(Date) (Manufacturer)

Our ASME Certificate of Authorization No. N-1037 to use the N symbol expires 5-6-81  
(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. J.

(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 7-30- 1980 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 7-30- 1980  
Frank Lahoti  
(Inspector)

Commissions IL-1088  
(Nat'l Bd., State, Prov. and No.)

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 1, Inola, OK 74036  
(Name and Address)  
4. Pump or Valve Ball Valve Nominal Inlet Size 2" (inch) Outlet Size 2"

	(a) Model No., Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	2" S603,	200-380	./.	CBVA 2475	3	./.	1980
(3)	CS-E-S6	201-380		CBVA 2475	3		1980
(4)		202-380		CBVA 2475	3		1980
(5)		203-380		CBVA 2475	3		1980
(6)		204-380		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)  
(Pressure) (Temperature)  
7. Cold Working Pressure 1410 psi at 100°F.  
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body 229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-9 Ht. #AJ548
Bonnet 229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-64 Ht. #AJ748
Body 229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-4 Ht. #AJ537
Bonnet 229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-66 Ht. #AJ741
Body 229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-18 Ht. #AJ544
Bonnet 229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-59 Ht. #AJ759
Body 229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-10 Ht. #AJ540
Bonnet 229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-68 Ht. #AJ745
Body 229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-13 Ht. #AJ565
Bonnet 229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-72 Ht. #AJ739
(b) Forgings			

POOR QUALITY  
ORIGINAL

(1) For manually operated valves only.

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

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
Stud	229-3305	SA 193 Gr. B7	Victor Products	Marking: "VB7DG"
Nut	919-2409	SA 194 Gr. 2H	Nuts, Inc.	Marking: "ZHT NW8"
(d) Other Parts*				
BALL	229-0746	SA479 Type 316	Ryerson	Heat Code: "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 /, Code Case No. /, Date /.

Signed Hills McCarna Company by John L. Heidenreich  
(Date) (Manufacturer)

Our ASME Certificate of Authorization No. N-1037 to use the N symbol expires 5-6-81  
(N) (NFV) (Date)

### CERTIFICATION OF DESIGN

Design information on file at Hills McCarna 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 / Reg. No. /

(1) Signature not required. List name only.

### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Illinois and employed by Uniborn Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 7-30- 19 80, 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 7-30- 19 80  
Prom Labati  
(Inspector)

Commissions IL-1088  
(Nat'l Bd., State, Prov. and No.)



Pg. 1 of 2

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

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

Certificate Holder's Serial No. A000707-2-(1THRU4)

8. Design conditions \_\_\_\_\_ psi \_\_\_\_\_ °F or valve pressure class ANSI 600#  
(pressure) (temperature)9. Cold working pressure 1405PSIG @ 150F  
psi at 100°F

10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi

11. Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## CERTIFICATION OF DESIGN

Design Specification certified by D.M. GROVES P.E. State PA Reg. no. 24926-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

N Certificate of Authorization No. \_\_\_\_\_ Expires 11/10/01

Date 09/27/00 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 09/27/00 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 9-28-2002 Signed *[Signature]* Commissions NB 9509 AN CT 1414  
(Authorized Inspector) (Nat'l. Bd. Incl. endorsements and 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 PPL Susquehanna, LLC. Date 05/13/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address WO # 194059 & 328635  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
 Expiration Date N/A

4. Identification of System REACTOR WATER CLEAN-UP SYSTEM 161B, CLASS III

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 (\* SEE 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)
1) PUMP	HAYWOOD TYLER	U12H91820	N/A	1P221A	1992	REPLACED	NO
2) PUMP	HAYWOOD TYLER	U12H91823	N/A	1P221A	1992	REPLACEMENT	NO
3) VALVE (GLAND PLUG)	HAMMEL-DAHL	71-2009-010	N/A	HV144F033	1974	REPLACED	YES
4) VALVE (GLAND PLUG)	PPL	N/A	N/A	HV144F003	2001	REPLACEMENT	NO

7. Description of Work 1P221A, REPLACED PUMP WITH SPARE. HV144FO33 REPLACED GLAND PLUG.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE REMARKS  
 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 CODES OF CONSTRUCTION: HAYWOOD TYLER 1968 ASME DRAFT PUMP

Applicable Manufacturer's Data Reports to be attached

& VALVE CODE. HAMMEL-DAHL '71 EDITION CC 1388.

TESTING 1P221A: VT-2 PER SE-000-017 1225 PSIG & TEMP 525°F. VALVE HV144F033 NON VT-2

PER MI-PS-008.

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 May 31, 2002  
Owner or Owners 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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 2-1-00 to 5-4-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845A/N/I/B/NS Pa 2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002

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

1. Owner PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Authorization No. N/A  
 Expiration Date N/A

4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I  
 5. (a) Applicable Construction Code III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 & N496-1 (\* See Page 22)  
 6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	YARWAY	A0037	N/A	HV141F001	1977	REPLACED	YES
2) VALVE	FLOWERVE	E949A-1-1	N/A	HV141F001	2000	REPLACEMENT	YES
3) VALVE	YARWAY	A0036	N/A	HV141F002	1977	REPLACED	YES
4) VALVE	FLOWERVE	E949A-1-6	N/A	HV141F002	2000	REPLACEMENT	YES
5) VALVE	YARWAY	A0035	N/A	HV141F005	1977	REPLACED	YES
6) VALVE	FLOWERVE	E949A-1-5	N/A	HV141F005	2000	REPLACEMENT	YES
7) SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SPDBA112-1	1982	REPLACED	YES

7. Description of Work SEE SHEET(S) 19-21  
 8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \* psi Test Temp. \* °F SEE SHEET(S) 19-21

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 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 N/A

Signed [Signature] Date May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 8-29-00 to 4-21-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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] Commission NB8845 A/N/I/B/NS Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements  
 Date June 3 2002

162A-I

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

1. Owner PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address SEE SHEET(S) 19-21  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I

5. (a) Applicable Construction Code III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 & N496-1 (\* See Page 22)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) SMALL PIPE SUBASSEMBLY	PPL	N/A	N/A	SPDBA112-1	2002	REPLACEMENT	NO
9) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SP-DBA-112-H6	1982	REPAIRED	NO
10) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0087	N/A	PSV 141F013B	1981	REPAIRED	YES
11) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0087 (VALVE)	N/A	PSV 141F013B	1981	REPLACED	YES
12) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N97499-37-0044 (DISC INSERT)	N/A	PSV 141F013B	2001	REPLACEMENT	YES
13) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	N63790-00-0087 (VALVE)	N/A	PSV 141F013B	1981	REPLACED	YES
14) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	K82137-55-0086	N/A	PSV 141F013B	2001	REPLACEMENT	YES
15) MAIN STEAM RELIEF VALVE (BOLTING)	CROSBY	N63790-00-0087	N/A	PSV 141F013B	1981	REPLACED	YES
16) MAIN STEAM RELIEF VALVE (BOLTING)	PPL	N/A	N/A	PSV 141F013B	2001	REPLACEMENT	NO
17) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0022	N/A	PSV 141F013B	1980	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 PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address SEE SHEET(S) 19-21  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I
5. (a) Applicable Construction Code III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 & N496-1 (\* See Page 22)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0087	N/A	PSV 141F013B	1981	REPLACEMENT	YES
19) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0087	N/A	PSV 141F013B	1981	REPLACED	YES
20) MAIN STEAM RELIEF VALVE (NUTS)	PPL	N/A	N/A	PSV 141F013B	2002	REPLACEMENT	NO
21) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0113	N/A	PSV 141F013D	1981	REPAIRED	YES
22) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0113 (VALVE)	N/A	PSV 141F013D	1981	REPLACED	YES
23) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N97499-36-0039 (DISC INSERT)	N/A	PSV 141F013D	2001	REPLACEMENT	YES
24) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	N63790-00-0113 (VALVE)	N/A	PSV 141F013D	1981	REPLACED	YES
25) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	K82137-55-0085 (SPINDLE)	N/A	PSV 141F013D	2001	REPLACEMENT	YES
26) MAIN STEAM RELIEF VALVE (BOLTING)	CROSBY	N63790-00-0113 (VALVE)	N/A	PSV 141F013D	1981	REPLACED	YES
27) MAIN STEAM RELIEF VALVE (BOLTING)	PPL	N/A	N/A	PSV 141F013D	2001	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 PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 4 of 22  
Address  
 2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE SHEET(S) 19-21  
Address Repair Organization P.O. No., Job No., etc.  
 3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I  
 5. (a) Applicable Construction Code III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
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 6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
28) MAIN STEAM RELIEF VALVE (HELICOIL INSTALLATION)	CROSBY	N63790-00-0113 HT # A2973H HELICOIL	N/A	PSV 141F013D	2001	REPAIRED	NO
29) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0128	N/A	PSV 141F013D	1982	REPLACED	YES
30) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0113	N/A	PSV 141F013D	1981	REPLACEMENT	YES
31) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0113 (VALVE)	N/A	PSV 141F013D	1981	REPLACED	YES
32) MAIN STEAM RELIEF VALVE (NUTS)	PPL	N/A	N/A	PSV 141F013D	2002	REPLACEMENT	NO
33) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0021	N/A	PSV 141F013J	1980	REPAIRED	YES
34) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0021 (VALVE)	N/A	PSV 141F013J	1980	REPLACED	YES
35) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N97499-37-0049 (DISC INSERT)	N/A	PSV 141F013J	2001	REPLACEMENT	YES
36) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	N63790-00-0021 (VALVE)	N/A	PSV 141F013J	1980	REPLACED	YES
37) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	K82137-55-0089 (SPINDLE)	N/A	PSV 141F013J	2001	REPLACEMENT	YES

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SEE SHEET(S) 19-21

Repair Organization P.O. No., Job No., etc.

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38) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0027	N/A	PSV 141F013J	1980	REPLACED	YES
39) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0021	N/A	PSV 141F013J	1980	REPLACEMENT	YES
40) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0021 (VALVE)	N/A	PSV 141F013J	1980	REPLACED	YES
41) MAIN STEAM RELIEF VALVE (NUTS)	PPL	N/A	N/A	PSV 141F013J	2002	REPLACEMENT	NO
42) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0131	N/A	PSV 141F013K	1982	REPAIRED	YES
43) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0131 (VALVE)	N/A	PSV 141F013K	1982	REPLACED	YES
44) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N97499-37-0048 (DISC INSERT)	N/A	PSV 141F013K	2001	REPLACEMENT	YES
45) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	N63790-00-0131 (VALVE)	N/A	PSV 141F013K	1982	REPLACED	YES
46) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	K82137-45-0047 (SPINDLE)	N/A	PSV 141F013K	1998	REPLACEMENT	YES
47) MAIN STEAM RELIEF VALVE (BOLTING)	CROSBY	N63790-00-0131 (VALVE)	N/A	PSV 141F013K	1982	REPLACED	YES

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
48) MAIN STEAM RELIEF VALVE (BOLTING)	PPL	N/A	N/A	PSV 141F013K	2001	REPLACEMENT	NO
49) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0020	N/A	PSV 141F013K	1980	REPLACED	YES
50) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0131	N/A	PSV 141F013K	1982	REPLACEMENT	YES
51) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0131 (VALVE)	N/A	PSV 141F013K	1982	REPLACED	YES
52) MAIN STEAM RELIEF VALVE (NUTS)	PPL	N/A	N/A	PSV 141F013K	2002	REPLACEMENT	NO
53) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0081	N/A	PSV 141F013L	1982	REPAIRED	YES
54) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0081 (VALVE)	N/A	PSV 141F013L	1982	REPLACED	YES
55) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N97499-37-0050 (DISC INSERT)	N/A	PSV 141F013L	2001	REPLACEMENT	YES
56) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0019	N/A	PSV 141F013L	1980	REPLACED	YES
57) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0081	N/A	PSV 141F013L	1982	REPLACEMENT	YES

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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Address SEE SHEET(S) 19-21  
Repair Organization P.O. No., Job No., etc.
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769 Salem Blvd, Berwick, PA 18603  
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Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
58) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0081 (VALVE)	N/A	PSV 141F013L	1982	REPLACED	YES
59) MAIN STEAM RELIEF VALVE (NUTS)	PPL	N/A	N/A	PSV 141F013L	2002	REPLACEMENT	NO
60) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0028	N/A	PSV 141F013N	1980	REPAIRED	YES
61) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0028 (VALVE)	N/A	PSV 141F013N	1980	REPLACED	YES
62) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N97499-36-0038 (DISC INSERT)	N/A	PSV 141F013N	2001	REPLACEMENT	YES
63) MAIN STEAM RELIEF VALVE (BOLTING)	CROSBY	N63790-00-0028 (VALVE)	N/A	PSV 141F013N	1980	REPLACED	YES
64) MAIN STEAM RELIEF VALVE (BOLTING)	PPL	N/A	N/A	PSV 141F013N	2001	REPLACEMENT	NO
65) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0133	N/A	PSV 141F013N	1982	REPLACED	YES
66) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0028	N/A	PSV 141F013N	1980	REPLACEMENT	YES
67) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0028 (VALVE)	N/A	PSV 141F013N	1980	REPLACED	YES

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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1. Owner PPL Susquehanna, LLC Date 05/15/2002  
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2. Plant Susquehanna Steam Electric Station Unit ONE  
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769 Salem Blvd, Berwick, PA 18603  
Address SEE SHEET(S) 19-21  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I

5. (a) Applicable Construction Code III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 & N496-1 (\* See Page 22)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
68) MAIN STEAM RELIEF VALVE (NUTS)	PPL	N/A	N/A	PSV 141F013N	2002	REPLACEMENT	NO
69) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0089	N/A	PSV 141F013R	1981	REPAIRED	YES
70) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0089 (VALVE)	N/A	PSV 141F013R	1981	REPLACED	YES
71) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N97499-37-0047 (DISC INSERT)	N/A	PSV 141F013R	2001	REPLACEMENT	YES
72) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	N63790-00-0089 (VALVE)	N/A	PSV 141F013R	1981	REPLACED	YES
73) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	K82137-55-0090 (SPINDLE)	N/A	PSV 141F013R	2001	REPLACEMENT	YES
74) MAIN STEAM RELIEF VALVE (NOZZLE)	CROSBY	N63790-00-0089 (VALVE)	N/A	PSV 141F013R	1981	REPLACED	YES
75) MAIN STEAM RELIEF VALVE (NOZZLE)	CROSBY	N93184-57-0176 (NOZZLE)	N/A	PSV 141F013R	1998	REPLACEMENT	YES
76) MAIN STEAM RELIEF VALVE (BOLTING)	CROSBY	N63790-00-0089 (VALVE)	N/A	PSV 141F013R	1981	REPLACED	YES
77) MAIN STEAM RELIEF VALVE (BOLTING)	PPL	N/A	N/A	PSV 141F013R	2001	REPLACEMENT	NO

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Authorization No. N/A  
 Expiration Date N/A

Repair Organization P.O. No., Job No., etc. SEE SHEET(S) 19-21

4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I

5. (a) Applicable Construction Code III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
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6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
78) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0112	N/A	PSV 141F013R	1981	REPLACED	YES
79) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0089	N/A	PSV 141F013R	1981	REPLACEMENT	YES
80) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0089 (VALVE)	N/A	PSV 141F013R	1981	REPLACED	YES
81) MAIN STEAM RELIEF VALVE (NUTS)	PPL	N/A	N/A	PSV 141F013R	2002	REPLACEMENT	NO
82) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0088	N/A	PSV 141F013S	1981	REPAIRED	YES
83) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0088 (VALVE)	N/A	PSV 141F013S	1981	REPLACED	YES
84) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N97499-37-0046 (DISC INSERT)	N/A	PSV 141F013S	2001	REPLACEMENT	YES
85) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	N63790-00-0088 (VALVE)	N/A	PSV 141F013S	1981	REPLACED	YES
86) MAIN STEAM RELIEF VALVE (SPINDLE)	CROSBY	K82137-55-0087 (SPINDLE)	N/A	PSV 141F013S	2001	REPLACEMENT	YES
87) MAIN STEAM RELIEF VALVE (BOLTING)	CROSBY	N63790-00-0088 (VALVE)	N/A	PSV 141F013S	1981	REPLACED	YES

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
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88) MAIN STEAM RELIEF VALVE (BOLTING)	PPL	N/A	N/A	PSV 141F013S	2001	REPLACEMENT	NO
89) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0130	N/A	PSV 141F013S	1982	REPLACED	YES
90) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0088	N/A	PSV 141F013S	1981	REPLACEMENT	YES
91) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0088 (VALVE)	N/A	PSV 141F013S	1981	REPLACED	YES
92) MAIN STEAM RELIEF VALVE (NUTS)	PPL	N/A	N/A	PSV 141F013S	2002	REPLACEMENT	NO
93) CONTROL ROD DRIVE	GE	5643	N/A	22-39 (CORE LOC.)	1974	REPLACED	YES
94) CONTROL ROD DRIVE	GE	A4495	N/A	22-39 (CORE LOC.)	1981	REPLACEMENT	YES
95) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	22-39 (CORE LOC.)	1981	REPLACED	NO
96) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	22-39 (CORE LOC.)	2002	REPLACEMENT	NO
97) CONTROL ROD DRIVE	GE	A4552	N/A	02-39 (CORE LOC.)	1981	REPLACED	YES
98) CONTROL ROD DRIVE	GE	8230	N/A	02-39 (CORE LOC.)	1981	REPLACEMENT	YES

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99) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	02-39 (CORE LOC.)	1981	REPLACED	NO
100) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	02-39 (CORE LOC.)	2002	REPLACEMENT	NO
101) CONTROL ROD DRIVE	GE	A4540	N/A	06-43 (CORE LOC.)	1981	REPLACED	YES
102) CONTROL ROD DRIVE	GE	7776	N/A	06-43 (CORE LOC.)	1978	REPLACEMENT	YES
103) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	06-43 (CORE LOC.)	1981	REPLACED	NO
104) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	06-43 (CORE LOC.)	2002	REPLACEMENT	NO
105) CONTROL ROD DRIVE	GE	8224	N/A	18-11 (CORE LOC.)	1978	REPLACED	YES
106) CONTROL ROD DRIVE	GE	8500	N/A	18-11 (CORE LOC.)	1978	REPLACEMENT	YES
107) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	18-11 (CORE LOC.)	1981	REPLACED	NO
108) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	18-11 (CORE LOC.)	2002	REPLACEMENT	NO
109) CONTROL ROD DRIVE	GE	8171	N/A	22-19 (CORE LOC.)	1978	REPLACED	YES



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Authorization No. N/A  
 Expiration Date N/A

4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I

5. (a) Applicable Construction Code III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 CC N416-1 & N496-1 (\* See Page 22)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
110) CONTROL ROD DRIVE	GE	9137	N/A	22-19 (CORE LOC.)	1978	REPLACEMENT	YES
111) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	22-19 (CORE LOC.)	1981	REPLACED	NO
112) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	22-19 (CORE LOC.)	2002	REPLACEMENT	NO
113) CONTROL ROD DRIVE	GE	8160	N/A	22-31 (CORE LOC.)	1978	REPLACED	YES
114) CONTROL ROD DRIVE	GE	9217	N/A	22-31 (CORE LOC.)	1978	REPLACEMENT	YES
115) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	22-31 (CORE LOC.)	1981	REPLACED	NO
116) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	22-31 (CORE LOC.)	2002	REPLACEMENT	NO
117) CONTROL ROD DRIVE	GE	A3980	N/A	26-15 (CORE LOC.)	1981	REPLACED	YES
118) CONTROL ROD DRIVE	GE	A1045	N/A	26-15 (CORE LOC.)	1978	REPLACEMENT	YES
119) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	26-15 (CORE LOC.)	1981	REPLACED	NO
120) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	26-15 (CORE LOC.)	2002	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 PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 13 of 22  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE SHEET(S) 19-21  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I

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121) CONTROL ROD DRIVE	GE	A8834	N/A	06-31 (CORE LOC.)	1990	REPLACED	YES
122) CONTROL ROD DRIVE	GE	9475	N/A	06-31 (CORE LOC.)	1978	REPLACEMENT	YES
123) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	06-31 (CORE LOC.)	1981	REPLACED	NO
124) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	06-31 (CORE LOC.)	2002	REPLACEMENT	NO
125) CONTROL ROD DRIVE	GE	8811	N/A	26-35 (CORE LOC.)	1978	REPLACED	YES
126) CONTROL ROD DRIVE	GE	7295	N/A	26-35 (CORE LOC.)	1978	REPLACEMENT	YES
127) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	26-35 (CORE LOC.)	1981	REPLACED	NO
128) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	26-35 (CORE LOC.)	2002	REPLACEMENT	NO
129) CONTROL ROD DRIVE	GE	A5602	N/A	26-51 (CORE LOC.)	1981	REPLACED	YES
130) CONTROL ROD DRIVE	GE	A5621	N/A	26-51 (CORE LOC.)	1981	REPLACEMENT	YES
131) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	26-51 (CORE LOC.)	1981	REPLACED	NO

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1. Owner <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Date <u>05/15/2002</u> Sheet <u>14</u> of <u>22</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>ONE</u> <u>SEE SHEET(S) 19-21</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>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 <u>REACTOR VESSEL SYSTEM 162A, CLASS I</u>	
5. (a) Applicable Construction Code <u>III *</u> 19 <u>71</u> Edition, <u>thru W'72</u> Addenda, <u>*</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u> CC N416-1 & N496-1 (* See Page 22)	
6. Identification of Components Repaired or Replaced and Replacement Components	

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
132) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	26-51 (CORE LOC.)	2002	REPLACEMENT	NO
133) CONTROL ROD DRIVE	GE	7608B	N/A	42-59 (CORE LOC.)	1978	REPLACED	YES
134) CONTROL ROD DRIVE	GE	8505	N/A	42-59 (CORE LOC.)	1984	REPLACEMENT	YES
135) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	42-59 (CORE LOC.)	1981	REPLACED	NO
136) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	42-59 (CORE LOC.)	2002	REPLACEMENT	NO
137) CONTROL ROD DRIVE	GE	9313	N/A	30-15 (CORE LOC.)	1978	REPLACED	YES
138) CONTROL ROD DRIVE	GE	8473	N/A	30-15 (CORE LOC.)	1978	REPLACEMENT	YES
139) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	30-15 (CORE LOC.)	1981	REPLACED	NO
140) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	30-15 (CORE LOC.)	2002	REPLACEMENT	NO
141) CONTROL ROD DRIVE	GE	A2105	N/A	30-47 (CORE LOC.)	1981	REPLACED	YES
142) CONTROL ROD DRIVE	GE	8864	N/A	30-47 (CORE LOC.)	1978	REPLACEMENT	YES

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1. Owner PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
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2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address SEE SHEET(S) 19-21  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
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769 Salem Blvd, Berwick, PA 18603  
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4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I

5. (a) Applicable Construction Code III \* 19 71 Edition, thru W'72 Addenda, \* Code Case  
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Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
143) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	30-47 (CORE LOC.)	1981	REPLACED	NO
144) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	30-47 (CORE LOC.)	2002	REPLACEMENT	NO
145) CONTROL ROD DRIVE	GE	7911	N/A	42-39 (CORE LOC.)	1978	REPLACED	YES
146) CONTROL ROD DRIVE	GE	A3986	N/A	42-39 (CORE LOC.)	1981	REPLACEMENT	YES
147) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	42-39 (CORE LOC.)	1981	REPLACED	NO
148) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	42-39 (CORE LOC.)	2002	REPLACEMENT	NO
149) CONTROL ROD DRIVE	GE	9323	N/A	46-23 (CORE LOC.)	1978	REPLACED	YES
150) CONTROL ROD DRIVE	GE	A4322	N/A	46-23 (CORE LOC.)	1982	REPLACEMENT	YES
151) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	46-23 (CORE LOC.)	1981	REPLACED	NO
152) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	46-23 (CORE LOC.)	2002	REPLACEMENT	NO
153) CONTROL ROD DRIVE	GE	7800	N/A	46-31 (CORE LOC.)	1978	REPLACED	YES

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1. Owner <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Date <u>05/15/2002</u> Sheet <u>16</u> of <u>22</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>ONE</u> <u>SEE SHEET(S) 19-21</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>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 <u>REACTOR VESSEL SYSTEM 162A, CLASS I</u>	
5. (a) Applicable Construction Code <u>III *</u> 19 <u>71</u> Edition, <u>thru W'72</u> Addenda, <u>*</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u> CC N416-1 & N496-1 (* See Page 22)	
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Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
154) CONTROL ROD DRIVE	GE	8467	N/A	46-31 (CORE LOC.)	1978	REPLACEMENT	YES
155) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	46-31 (CORE LOC.)	1981	REPLACED	NO
156) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	46-31 (CORE LOC.)	2002	REPLACEMENT	NO
157) CONTROL ROD DRIVE	GE	A4225	N/A	22-15 (CORE LOC.)	1981	REPLACED	YES
158) CONTROL ROD DRIVE	GE	7136	N/A	22-15 (CORE LOC.)	1978	REPLACEMENT	YES
159) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	22-15 (CORE LOC.)	1981	REPLACED	NO
160) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	22-15 (CORE LOC.)	2002	REPLACEMENT	NO
161) CONTROL ROD DRIVE	GE	8440	N/A	46-39 (CORE LOC.)	1978	REPLACED	YES
162) CONTROL ROD DRIVE	GE	9418	N/A	46-39 (CORE LOC.)	1978	REPLACEMENT	YES
163) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	46-39 (CORE LOC.)	1981	REPLACED	NO
164) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	46-39 (CORE LOC.)	2002	REPLACEMENT	NO

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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1. Owner PPL Susquehanna, LLC Date 05/15/2002  
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769 Salem Blvd, Berwick, PA 18603  
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SEE SHEET(S) 19-21  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
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769 Salem Blvd, Berwick, PA 18603  
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4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I

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6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
165) CONTROL ROD DRIVE	GE	A4705	N/A	58-19 (CORE LOC.)	1981	REPLACED	YES
166) CONTROL ROD DRIVE	GE	A983	N/A	58-19 (CORE LOC.)	1978	REPLACEMENT	YES
167) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	58-19 (CORE LOC.)	1981	REPLACED	NO
168) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	58-19 (CORE LOC.)	2002	REPLACEMENT	NO
169) CONTROL ROD DRIVE	GE	8177	N/A	58-23 (CORE LOC.)	1978	REPLACED	YES
170) CONTROL ROD DRIVE	GE	8210	N/A	58-23 (CORE LOC.)	1978	REPLACEMENT	YES
171) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	58-23 (CORE LOC.)	1981	REPLACED	NO
172) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	58-23 (CORE LOC.)	2000	REPLACEMENT	NO
173) MAIN STEAM RELIEF VALVE (BOLTING)	CROSBY	N63790-00-0091 (VALVE)	N/A	PSV 141F013G	1981	REPLACED	YES
174) MAIN STEAM RELIEF VALVE (BOLTING)	PPL	N/A	N/A	PSV 141F013G	2002	REPLACEMENT	NO
175) LARGE PIPE SUBASSEMBLY (BOLTING)	BECHTEL	N/A	N/A	DCA111-2	1981	REPLACED	YES

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769 Salem Blvd, Berwick, PA 18603  
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2. Plant Susquehanna Steam Electric Station Unit ONE  
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769 Salem Blvd, Berwick, PA 18603  
Address SEE SHEET(S) 19-21  
Repair Organization P.O. No., Job No., etc.
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Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A
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6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
176) LARGE PIPE SUBASSEMBLY (BOLTING)	PPL	N/A	N/A	DCA111-2	2002	REPLACEMENT	NO

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**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
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1. Owner PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 19 of 22  
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6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-9	273883 & 200499	00-162-006 & 00-162-007	HV141F001, HV141F002 & HV141F005; SPDBA112-H6, SPDBA112-1; RX VENT VALVE & ASSOC PIPE & SUPPORT REPLACEMENT. SPD CLIP. PCWO 273883, PREFAB ACTIVITIES PCWO 200499, INSTALLATION	VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
10-17	SERVICE ORDER NV1A00110	01-162-002	PSV 141F013B, REPAIRED RELIEF VLV BY MACHINING AND REPLACED DISC INSERT, SPINDLE & INLET STUDS (4)	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/O # 358110
18-20	358110	01-162-003	PSV 141F013B, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
21-28	SERVICE ORDER NV1A00110	01-162-004	PSV 141F013D, REPAIRED RELIEF VLV BY MACHINING & INSTALLATION OF HELICOIL... REPLACED DISC INSERT, SPINDLE AND INLET STUDS (2).	VT-1 for inlet bolting; VT-2 DURING INSTALLATION PER W/O # 339839
29-32	339839	01-162-005	PSV 141F013D, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
33-37	SERVICE ORDER NV1A00110	01-162-006	PSV 141F013J, REPAIRED RELIEF VLV BY MACHINING AND REPLACED DISC INSERT & SPINDLE	VT-1 for inlet bolting; VT-2 DURING INSTALLATION PER W/O # 256442
38-41	256442	01-162-007	PSV 141F013J, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
42-48	SERVICE ORDER NV1A00110	01-162-008	PSV 141F013K, REPAIRED RELIEF VLV BY MACHINING AND REPLACED DISC INSERT, SPINDLE & INLET STUDS (5).	VT-1 for inlet bolting VT-2 DURING INSTALLATION PER W/O # 256443
49-52	256443	01-162-009	PSV 141F013K, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
53-55	SERVICE ORDER NV1A00110	01-162-010	PSV 141F013L, REPAIRED RELIEF VLV BY MACHINING AND REPLACED DISC INSERT.	VT-1 for inlet bolting; VT-2 DURING INSTALLATION PER W/O # 256445
56-59	256445	01-162-011	PSV 141F013L, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
60-64	SERVICE ORDER NV1A00110	01-162-012	PSV 141F013N, REPAIRED RELIEF VLV BY MACHINING AND REPLACED DISC INSERT & INLET STUDS (2).	VT-1 for inlet bolting; VT-2 DURING INSTALLATION PER W/O # 256447
65-68	256447	01-162-013	PSV 141F013N, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG



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1. Owner PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
 Sheet 20 of 22

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address  
SEE SHEET(S) 19-21  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
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6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
69-77	SERVICE ORDER NV1A00110	01-162-014	PSV 141F013R, REPAIRED RELIEF VLV BY MACHINING AND REPLACED NOZZLE, DISC INSERT, SPINDLE & INLET STUDS (6).	VT-1 for inlet bolting; VT-2 DURING INSTALLATION PER W/O # 339840
78-81	339840	01-162-015	PSV 141F013R, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
82-88	SERVICE ORDER NV1A00110	01-162-016	PSV 141F013S, REPAIRED RELIEF VLV BY MACHINING AND REPLACED DISC INSERT, SPINDLE & INLET STUDS (4).	VT-1 for inlet bolting; VT-2 DURING INSTALLATION PER W/O # 358112
89-92	358112	01-162-017	PSV 141F013S, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
93-96	298527	01-162-018	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 22-39	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
97-100	298529	01-162-019	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 02-39	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
101-104	298530	01-162-020	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 06-43	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG VT-3 CAP SCREWS DUE TO LEAKAGE
105-108	298531	01-162-021	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 18-11	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
109-112	298532	01-162-022	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 22-19	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
113-116	298534	01-162-023	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 22-31	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
117-120	298535	01-162-024	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 26-15	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG VT-3 CAP SCREWS DUE TO LEAKAGE
121-124	298536	01-162-025	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 06-31	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
125-128	298537	01-162-026	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 26-35	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
129-132	298538	01-162-027	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 26-51	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
133-136	298539	01-162-028	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 42-59	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG

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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 PPL Susquehanna, LLC Date 05/15/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 21 of 22  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603 SEE SHEET(S) 19-21  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System REACTOR VESSEL SYSTEM 162A, CLASS I

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 CC N416-1 & N496-1 (\* See Page 22)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
137-140	298540	01-162-029	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 30-15	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
141-144	298541	01-162-030	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 30-47	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
145-148	298544	01-162-031	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 42-39	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
149-152	298545	01-162-032	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 46-23	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
153-156	298547	01-162-033	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 46-31	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
157-160	298548	01-162-034	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 22-15	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
161-164	298549	01-162-035	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 46-39	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
165-168	298551	01-162-036	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 58-19	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
169-172	298553	01-162-037	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 58-23	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
173-174	256439	02-162-005	PSV 141F013G; REPLACED NUTS	VT-1 for inlet NUTS; VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG
175-176	356060	02-162-006	DCA-111-2; REPLACED FLANGE M1 & M3 BOLTING	VT-2 PER SE-100-002 TEMP 147°/PRESS 1039 PSIG

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

1. Owner <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Date <u>05/15/2002</u> Sheet <u>22</u> of <u>22</u>
2. Plant <u>Susquehanna Steam Electric Station</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>Address</small>	Unit <u>UNIT ONE</u> <u>SEE SHEET(S) 19-21</u> <small>Repair Organization P.O. No., Job No., etc.</small>
3. Work Performed by <u>PPL Susquehanna, LLC</u> <small>Name</small> <u>769 Salem Blvd, Berwick, PA 18603</u> <small>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 <u>REACTOR VESSEL SYSTEM 162A, CLASS I</u>	
5. (a) Applicable Construction Code <u>ASME Sec III *</u> 19 <u>71</u> Edition, <u>Thru W'72</u> Addenda, <u>N/A*</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>89</u> CC N416-1 & N496-1 (* See Below)	
6. Identification of Components Repaired or Replaced and Replacement Components	

**SUPPLEMENT 5 (a)**

COMPONENT MANUFACTURER	CODE OF CONSTRUCTION / CODE CASE(S)
YARWAY (ORIGINAL VALVE CODE OF CONSTRUCTION)	ASME Section III, 1971 Ed. Winter '72 Add.
ANCHOR DARLING (REPLACEMENT VALVES)	ASME Section III, 1986 Ed. No Add.
Crosby Valve & Gage Co. MSRV'S Valves	CONSTRUCTION & REPLACEMENT CODE OF CONSTRUCTION FOR VALVES IS ASME Section III, 1971 Ed. With NO Addenda; Code Cases 1567 & 1711
Crosby Valve & Gage Co. Replacement Parts; Spindle And Nozzles	Replacement Code is ASME Section III, 1971 Edition NO Addenda CC 1711
Crosby Valve & Gage Co. Replacement Parts; Disc Inserts	Replacement Code is ASME Section III, 1974 Edition Summer 75 Addenda CC 1711
GE, Control Rod Drives Year Built 1978 (ORIGINALLY INSTALLED IN UNIT 1)	ASME Section III, 1971 Ed. NO Add. Code Case 1361
GE, Control Rod Drives Year Built 1981 (ORIGINALLY INSTALLED IN UNIT 2)	ASME Section III, 1971 Ed. Winter '72 Add. Code Case 1361
GE, Control Rod Drives Year Built 1984 (ORIGINALLY SPARE)	ASME Section III, 1971 Ed. Winter '72 Add. Code Case 1361

162A

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

1. Manufactured and certified by 701 First Street, Williamsport, PA 17701  
(name and address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light, 2 North Ninth St., Allentown, PA 18101  
(name and address of Purchaser or Owner)

3. Location of installation Susquehanna Station, 5 mi. NE of Berwick on Rt. 11, P.O. Box 467  
(name and address) Berwick, PA 18603

4. Model No., Series No., or Type Y-Globe Drawing W9925474 Rev. C CRR ---

5. ASME Code Section III: 1986 - 1 ---  
Edition Addenda date Class Code Case no.

6. Pump or valve Valve Nominal inlet size 2" Outlet size 2"  
(in.) (in.)

7. Material: Body SA216-WCB Bonnet SA564-630-1075 Disk COCR/ST1 6 Bolting ---

[illegible]

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

## FORM NPV-1

Mfr. Serial No. \_\_\_\_\_

8. Remarks \_\_\_\_\_

Shop Order E949A-1

9. Design conditions 2774 psi 585 °F or valve pressure class 1500# (1)  
(pressure) (temperature)10. Cold working pressure 3705 psi at 100°F11. Hydrostatic test 5575 psi Disk differential test pressure 4076 psi

## CERTIFICATION OF DESIGN

Design Specification certified by D. Sattar Prof. Eng. state PA Reg. No. 019525E  
Design Report certified by R.S. Farrell Prof. Eng. state PA Reg. No. 035216E

## 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.

N Certificate of Authorization No. N1712 Expires 4/15/01Date 7/28/2000 Name Flowserve Corp. Signed R.L. Stannett  
(N Certificate Holder) (representative)

## CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State ~~of~~ Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 2-111 7-28 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 of any kind arising from or connected with this inspection.

Date JUL 28 2000 236  
Charles Young Commissions Pennsylvania 2392  
(Inspector) (Nat'l Bd., (incl. endorsements) State, Prov. and No.)  
Charles Young

(1) For manually operated valves only.

**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

Pg. \_\_\_\_ of \_\_\_\_

**Flowserve Corp.**

701 First Street, Williamsport, PA 17701

1. Manufactured and certified by 701 First Street, Williamsport, PA  
(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 or Owner)
3. Location of installation Susquehanna Station, 5 mi. NE of Berwick on Rt. 11, P.O. Box 467,  
(name and address) Berwick, PA 18603
4. Model No., Series No., or Type Y-Globe Drawing W9925474 Rev. C 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 2" Outlet size 2"  
(in.) (in.)
7. Material: Body SA216-WCB Bonnet SA564-630-1075 Disk COCR/STL6 Bolting --

[illegible]

\* 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.

FORM NPV-1 (back)

8. Remarks

Shop Order E949A-1

9. Design conditions 2774 psi 585 °F or valve pressure class 1500# (1)  
(pressure) (temperature)

10. Cold working pressure 3705 psi at 100°F

11. Hydrostatic test 5575 psi. Disk differential test pressure 4076 psi

CERTIFICATION OF DESIGN

Design Specification certified by D. Sattar P.E. State PA Reg. no. 019525E  
Design Report certified by R.S. Farrell P.E. State PA Reg. no. 035216E

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. N1712 Expires 4/15/01

Date 7/31/2000 Name Flowserve Corp. Signed R. L. Stannett  
(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 of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 7-31-00, 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 loss of any kind arising from or connected with this inspection.

Date 7-31-00 Signed Charles Young Commissions Pennsylvania 2392 256  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

*Part 05-04-01*

**FORM N-2 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 Anderson Greenwood Crosby, 43 Kendrick St., Wrentham, MA 02093  
(Name and Address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT  
(Name and Address of Purchaser or Owner)
3. Location of Installation SUSQUEHANNA SES STOREROOM  
(Name and Address)
4. Type DS-A-63790-4 REV 0 SA637 GR.718 185,000 - 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) *for 4/11/01 (year built)*
5. ASME Code, Section III, Division 1: 1974 SUMMER 1975 I \*\*1711 -  
(edition) (addenda date) (class) (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -  
(no.)
7. Remarks \_\_\_\_\_

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) N97499-36-0038	---	(26)	---
(2) N97499-36-0039	---	(27)	---
(3) N97499-37-0044	---	(28)	---
(4) N97499-37-0046	---	(29)	---
(5) N97499-37-0047	---	(30)	---
(6) N97499-37-0048	---	(31)	---
(7) N97499-37-0049	---	(32)	---
(8) N97499-37-0050	---	(33)	---
(9) N97499-37-0051	---	(34)	---
(10) N97499-37-0052	---	(35)	---
(11) N97499-37-0053	---	(36)	---
(12) N97499-37-0054	---	(37)	---
(13) N97499-37-0056	---	(38)	---
(14) N97499-37-0057	---	(39)	---
(15) N97499-37-0058	---	(40)	---
(16) N97499-37-0059	---	(41)	---
(17)	---	(42)	---
(18)	---	(43)	---
(19)	---	(44)	---
(20)	---	(45)	---
(21)	---	(46)	---
(22)	---	(47)	---
(23)	---	(48)	---
(24)	---	(49)	---
(25)	---	(50)	---

10. Design pressure - psi. Temp. - ° F Hydro. test pressure 2370 at temp. 70 ° 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.

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



Certificate Holder's Serial No. N97499-36-0038**CERTIFICATE OF DESIGN**Design specifications certified by M.R. MJAATVEDT P.E. State PA Reg. no. 35285-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) Disc Inserts  
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1877 Expires Sep. 30, 2001  
Anderson Greenwood CrosbyDate 22<sup>nd</sup> Feb. 2001 Signed Wrentham, MA by [Signature]  
(NPT Certificate Holder) (Authorized Representative)\*\* 4\* MPY. 01**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by Factory Mutual Insurance Co. of Johnston, Rhode Island have inspected these items described in this Data Report on February 23, 20 01 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.

\*\* [Signature] MA-1418 N 05-04-01  
ANI Date

Date 2-23, 20 01Signed [Signature]  
(Authorized Inspector)Commissions MA-1418 N  
(Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

Q.C.-392  
Sheet 1 of 2**FORM N-2 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 Anderson Greenwood Crosby, 43 Kendrick St., Wrentham, MA 02093  
(Name and Address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT  
(Name and Address of Purchaser or Owner)
3. Location of Installation SUSQUEHANNA STOREROOM  
(Name and Address)
4. Type DS-A-63790-4 REV.A SEE BELOW BELOW — 2001  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) (year built)
5. ASME Code, Section III, Division 1: 1971 NO ADDENDA 1 1711  
(edition) (addenda date) (class) (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — Revision — Date —  
(no.)
7. Remarks SPINDLE MATERIAL - A564 TYPE 630 - TENSILE - 140,000  
SPINDLE BALL MATERIAL - A276 TYPE 440C - TENSILE - N/A
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) K82137-55-0085	---	(26)	---
-(2) K82137-55-0086	---	(27)	---
-(3) K82137-55-0087	---	(28)	---
-(4) K82137-55-0088	---	(29)	---
-(5) K82137-55-0089	---	(30)	---
-(6) K82137-55-0090	---	(31)	---
-(7) K82137-55-0091	---	(32)	---
-(8) K82137-55-0092	---	(33)	---
(9)	---	(34)	---
(10)	---	(35)	---
(11)	---	(36)	---
(12)	---	(37)	---
(13)	---	(38)	---
(14)	---	(39)	---
(15)	---	(40)	---
(16)	---	(41)	---
(17)	---	(42)	---
(18)	---	(43)	---
(19)	---	(44)	---
(20)	---	(45)	---
(21)	---	(46)	---
(22)	---	(47)	---
(23)	---	(48)	---
(24)	---	(49)	---
(25)	---	(50)	---

10. Design pressure — psi. Temp. — ° F Hydro. test pressure — at temp. — ° F  
(when applicable)

\* 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.

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

Form N-2 (Back)

Q.C.-392  
Sheet 2 of 2Certificate Holder's Serial No. K82137-55-0085**CERTIFICATE OF DESIGN**Design specifications certified by C.T. NIEH P.E. State CA Reg. no. 15587  
(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) Spindle Assemblies  
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1877 Expires Sep. 30, 2001  
Anderson Greenwood CrosbyDate May 18<sup>th</sup>, 01 Signed Wrentham, MA by [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 Massachusetts and employed by Factory Mutual Insurance Co. of Johnston, Rhode Island have inspected these items described in this Data Report on May 18, 20 01 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 5-18, 20 01Signed [Signature]  
(Authorized Inspector)Commissions MA-1418 N  
(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, Division 1 - Not to Exceed One Day's Production*

1. Manufactured and certified by Crosby Valve Inc., 43 Kendrick St., Wrentham, MA 02093  
(Name and Address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT  
(Name and Address of Purchaser or Owner)
3. Location of Installation SUSQUEHANNA SES STOREROOM  
(Name and Address)
4. Type DS-A-63790 REV.E SA564-UNS-S17400 140,000 - 1998  
(drawing no.) (mat'l. spec. no.) (tensile strength) (CRN) \* (year built) *2/1/02*
5. ASME Code, Section III, Division 1: 1971 NO ADDENDA 1 -  
(edition) (addenda date) (class) (Code Case No.) *2/1/02*
6. Fabricated in accordance with Const. Spec. (Div. 2 only) - Revision - Date -  
(no.)
7. Remarks \_\_\_\_\_
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) <u>K82137-45-0047 *</u>	<u>-</u>	(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 - psi. Temp. - ° F Hydro. test pressure - 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.

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

\* Revised

*2/1/02*  
*2/1/02*

*§ 1.0 27*

Q.C.-392  
Sheet 2 of 2

Form N-2 (Back)

Certificate Holder's Serial Nos. K82137-45-0047**CERTIFICATE OF DESIGN**Design specifications certified by CT NIEH P.E. State CA Reg. no. 15587  
(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) Spindle Assembly  
conforms to the rules of construction of the ASME Code, Section III, Division 1.NPT Certificate of Authorization No. N-1877 Expires 30 Sep. 2001\* 1 MonthDate 25 Nov 98 Signed Crosby Valve Inc. by [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 Massachusetts and employed by \* Protection Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on November 25, 19 98 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 11-25, 19 98\* Signed [Signature]  
(Authorized Inspector)Commissions MA-1418 3-01-02  
(Nat'l Bd. (incl. endorsements) and state or prov. and no.)

\* Factory Mutual System

\* Revised 3/1/02

\*\*Revised 3/23/01

3/23/01 3/23/01

Q.C.-392

Sheet 1 of 2

# FORM N-2 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 Croby Valve Inc., 43 Kendrick St., Wrentham, MA 02093  
(Name and Address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT  
(Name and Address of Purchaser or Owner)
3. Location of Installation SUSQUEHANNA SES STOREROOM  
(Name and Address)
4. Type DS-A-63790 REV.E ASME SA182 GR.F316 75,000 3/23/01 1998  
(drawing no.) (mat'l spec. no.) (tensile strength) (date) (year built)
5. ASME Code, Section III, Division 1: \*\* - 1994 1971 \*\*SUMMER 1996 1 \*\*1711  
(edition) (addenda date) (class) (Code Case No.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) 1/1 - - - 3/23/01  
(no.)
7. Remarks

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) N93184-57-0175	-	(26)	-
(2) N93184-57-0176	-	(27)	-
(3) N93184-57-0177	-	(28)	-
(4)	-	(29)	-
(5)	-	(30)	-
(6)	-	(31)	-
(7)	-	(32)	-
(8)	-	(33)	-
(9)	-	(34)	-
(10)	-	(35)	-
(11)	-	(36)	-
(12)	-	(37)	-
(13)	-	(38)	-
(14)	-	(39)	-
(15)	-	(40)	-
(16)	-	(41)	-
(17)	-	(42)	-
(18)	-	(43)	-
(19)	-	(44)	-
(20)	-	(45)	-
(21)	-	(46)	-
(22)	-	(47)	-
(23)	-	(48)	-
(24)	-	(49)	-
(25)	-	(50)	-

10. Design pressure - psi Temp. - ° F Hydro. test pressure 2370 at temp. 70 ° 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 indicated at the top of this form.

This form (B30040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2900, Fairfield, NJ 07007-2900

Form N-2 (Back)

Q.C.-392  
Sheet 2 of 2Certificate Holder's Serial Nos. N93184-57-0175**CERTIFICATE OF DESIGN**Design specifications certified by C.T. NIEH P.E. State CA Reg. no. 15587  
(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)  
conforms to the rules of construction of the ASME Code, Section III, Division 1.

Nozzles

NPT Certificate of Authorization No. N-1877 Expires 30 Sep. 2001

\*\*

AGC

Date 3/23/01Date 29 AUG 98 Signed Crosby Valve Inc. by Bruce A. Crosby  
(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 Massachusetts and employed by Protection Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on August 28, 19 98 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.

\*\* Hellie M. 1415 Date 3/23/01  
ANIDate 8-28, 19 98Signed Vern D. G. Hobbs  
(Authorized Inspector)

Commissions

MA-1418 N

(Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

\* Factory Mutual System

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

1. Owner PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address WO# 346924 & CRF 02164001  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System RECIRC WATER LOOP & JET PUMPS 164B, CLASS I

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)
1) LARGE PIPE BLIND FLANGE	BECHTEL	N/A	N/A	VRR-B31-2	1982	REPLACED	YES
2) LARGE PIPE BLIND FLANGE	PPL	N/A	N/A	VRR-B31-2	2002	REPLACEMENT	NO

7. Description of Work REPLACED BLIND FLANGE.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (VT-2 PER SE-100-002)  
Other ☒ Pressure 1039 Psig Test Temp. 147 °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 NONE

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 May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 1-31-02 to 3-28-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 A/N/I/B/NS Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002

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

1. Owner PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address WO# 392175 & CRF 02164003  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System RECIRC.-SEAL WATER INJECTION 164D, 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 (\* SEE REMARKS SECTION 9 )

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	MAROTTA SCIENTIFIC CONTROLS	383	1251	XV143F017A	1982	REPLACED	YES
2) VALVE	VALCOR	794170004-2	N/A	XV143F017A	1992	REPLACEMENT	YES
3) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDCB111-4	1982	REPLACED	YES
4) SMALL PIPE SUB- ASSEMBLY	PP&L	N/A	N/A	SPDCB111-4	2002	REPLACEMENT	NO

7. Description of Work REPLACED CHECK VALVE AND ASSOCIATED PIPE

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 REPORT ATTACHED. CODE OF CONSTRUCTION: ORIGINAL & REPLACEMENT

Applicable Manufacturer's Data Reports to be attached

VALVE, ASME III 1974 EDITION WINTER 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  Date May 31, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-20-02 to 3-28-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tilley Commissions NB8845 A/N/E/B/N/S Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements

Date June 3 2002

VALCOR NO. 875

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
Jolting			
N/A			
(d) Other Parts			
V52019-50-1	SA 479 316	CARTECH	Lot # L637NU
V52046-50-1	SA 479 1H-19	ARMCO	Lot # N768NU
V52035-50-3	SA 182 316	CONSOLIDATED	Lot # U633NU

S. Hydrostatic test 3250 psi. Disk Differential test pressure 1320 psi.

### CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974, Addenda Winter 74, Code Case No. N/A, Date 12/16/92.

Signed Valcor Engineering Corporation by [Signature]  
(N Certificate Holder)

Our ASME Certificate of Authorization No. 1076 to use the N symbol expires 5-6-93.  
(IN) (Date)

### CERTIFICATION OF DESIGN

Design information on file at Valcor Engineering Corporation  
Stress analysis report (Class I-only) on file at Valcor Engineering Corp.

Design specifications certified by (1) DALE SATTAR  
PE State PA. Reg. No. 019525-E

Stress analysis certified by (1) N/A  
PE State \_\_\_\_\_ Reg. No. \_\_\_\_\_

(1) Signature not required. List name only.

### CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the State or Province of New Jersey and employed by Allendale Insurance Company of Norwood, Massachusetts have inspected the pump, or valve, described in this Data Report on December, 16 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. #Factory Mutual System

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

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

1. Owner PPL Susquehanna, LLC Date 05/07/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address W/O 392178, CRF # 02-169-001  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System RADWASTE (LIQUID) SYSTEM 169A, 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 (\* CC1622,1516-1,1567,1335-9)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	PACIFIC	0313-6	N/A	HV16116A1	1977	REPAIRED	YES

7. Description of Work MACHINED VALVE WEDGE & SEAT TO RESTORE SEATING SURFACE
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ (NON VT-2 PER MIS-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 NONE

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 May 31, 20 02  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-20-02 to 3-22-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Delton E. Tillery Commissions NB8845 A/N/I/B/N5 Pa2361  
Inspector's Signature National Board, State, Province, and Endorsements  
 Date June 3 20 02

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

1. Owner PPL Susquehanna, LLC. Date 05/22/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 389521 & 385099  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System MAIN STEAM SYSTEM 183A, CLASS I

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, \* Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* SEE COMMENTS SECTION)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (DISC)	ANCHOR DARLING	5853-6-1	N/A	HV141F109	1975	REPLACED	YES
2) VALVE (DISC)	ANCHOR DARLING	U5244	N/A	HV141F109	1990	REPLACEMENT	YES
3) SMALL PIPE ASSEMBLY	PPL	N/A	N/A	SPDBA116-1	1996	REPAIRED	NO

7. Description of Work REPLACED VALVE DISC & REMOVED INDICATIONS ON SPDBA116-1.

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 ORIGINAL ANCHOR DARLING CODE OF CONSTRUCTION ASME Sec III '71 Ed Winter '72 Add

Applicable Manufacturer's Data Reports to be attached

CC: 1516-1, 1534, 1535-2 & 1334-2. REPLACEMENT ANCHOR DARLING PART: ASME Sec III '71 Ed

Winter '72 Add No CC.

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 June 12, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-19-02 to 4-21-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Piquero III Commissions NB 7980 A, N, I, B, NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 21 2002

**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 U5244 Nat'l Bd. No. N/A
- (a) Constructed According to Drawing No. D13048 Drawing Prepared by Anchor/Darling Valve Company  
 (b) Description of Part Inspected Disc, Heat No. S6541 SA216-WCB  
 (c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. N/A Class 1
3. Remarks 3"-900#-Gate  
(Brief description of service for which component was designed)  
A/DV Shop Order P-F628-1  
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 3/20 19 90 Signed Anchor/Darling Valve Co. By R L Stannett  
(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 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 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 1-3-90 thru 3-20-90 19 90 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 3-20 19 90

Charles Young

Commissions Pennsylvania 2392

National Board, State, Province and No.

\*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) also 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".

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

1. Owner PPL Susquehanna, LLC. Date 05/22/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address See Attached List  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address 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 W'72 Addenda, \* Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* SEE PAGE 3 OF 3)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	15018	N/A	1RV-PT-10101B	1976	REPLACED	YES
2) VALVE	YARWAY	C0760	N/A	1RV-PT-10101B	1990	REPLACEMENT	YES
3) VALVE	BORG WARNER	15358	N/A	2RV-PT-10101B	1976	REPLACED	YES
4) VALVE	YARWAY	C0787	N/A	2RV-PT-10101B	1990	REPLACEMENT	YES
5) SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBB-130-1	1982	REPLACED	YES
6) SMALL PIPE SUBASSEMBLY	PPL	N/A	N/A	SP-DBB-130-1	2002	REPLACEMENT	NO
7) VALVE	YARWAY	6593	N/A	2RV-LSH-10112D/ 2RV-LSHH-10112D	1976	REPLACED	YES

7. Description of Work SEE ATTACHED LIST

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 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 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 N/A

Signed [Signature] Date June 12, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 10-25-01 to 4-21-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Regus Commissions NB7980 A, N, I, B, NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 21 2002

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

1. Owner PPL Susquehanna, LLC. Date 05/22/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd., Berwick, PA 18603  
Address See Attached List  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address 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 W'72 Addenda, \* Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (\* SEE PAGE 3 OF 3)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) VALVE	YARWAY	A7309	284	2RV-LSH-10112D/ 2RV-LSHH-10112D	1979	REPLACEMENT	YES
9) SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBB-103-4	1982	REPLACED	YES
10) SMALL PIPE SUBASSEMBLY	PPL	N/A	N/A	SP-DBB-103-4	2002	REPLACEMENT	NO
11) VALVE	YARWAY	6532	N/A	1RV-LSH-10112D/ 1RV-LSHH-10112D	1976	REPLACED	YES
12) VALVE	YARWAY	A7343	318	1RV-PP-10112B/ 1RV-LSHH-10112D	1979	REPLACEMENT	YES
13) SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBB-103-6	1982	REPLACED	YES
14) SMALL PIPE SUBASSEMBLY	PPL	N/A	N/A	SP-DBB-103-6	2002	REPLACEMENT	NO
15) VALVE	ANCHOR DARLING	5853-13-1	N/A	HV10109	1976	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 PPL Susquehanna, LLC. Date 05/22/2002  
Name  
769 Salem Blvd, Berwick, PA 18603 Sheet 3 Of 3  
Address

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

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603 Authorization No. N/A  
Address Expiration Date N/A

4. Identification of System MAIN STEAM SYSTEM 183A, CLASS II

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 (\* SEE LIST BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	CODE OF CONSTRUCTION
1-6	251333	01-183-002	1RV-PT-10101B, 2RV-PT-10101B & SPDBB-130-1 REPLACED VALVES AND ASSOCIATED PIPE	ORIG VALVE '74 Ed WIN '74 Add. REPLACE VALVE '86 Ed No Add
7-10	393126	02-183-010	2RV-LSH-10112D/2RV-LSHH-10112D & SPDBB103-4 REPLACED VALVE AND ASSOCIATED PIPE	ORIG VALVE '74 Ed WIN '74 Add. REPLACE VALVE '74 Ed WIN '75 Add
11-14	393126	02-183-011	1RV-LSH-10112D/1RV-LSHH-10112D & SPDBB103-4 REPLACED VALVE AND ASSOCIATED PIPE	ORIG VALVE '74 Ed WIN '74 Add. REPLACE VALVE '74 Ed WIN '75 Add
15	388034	02-183-012	HV-10109, REPAIRED VALVE BY PERFORMING STELLITE HARDFACING.	VALVE '71 Ed WIN '72 Add. CC1516-1 & 1534

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

Pg. 5 of 5

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 nst (AMS) 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.
C0760	---	BA	2906	NC
C0761		All valves listed on this report have the same heat code for each piece listed.		
C0762				
C0766				
C0769				
C0778				
C0783				
C0786				
C0787				
C0788				
C0791				
C0792				
C0794				
C0796				
C0800				
C0801				
C0804				
C0810				
C0812				
C0815				
C0822				
C0823				
C0827				

\* 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. 23  
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. P. Roan  
(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 \*Factory Mutual System  
(Authorized Inspector) Commissions PA 2006 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.



As Required by the Provisions of the ASME Code Rules P.O. # 36829

3478

16

DOCUMENT REVIEWED  
JUN 28 79 J. M. FEHL  
By: \_\_\_\_\_  
U.E. & C.

Date \_\_\_\_\_ (month/year)  
Certificate of Authorization No. N 1891 expires OCTOBER 21, 1980

\*PART OF THE FACTORY MUTUAL SYSTEM

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

As Required by the Provisions of the ASME Code Rules P.O.# 36829

1. Manufactured by: YARWAY CORPORATION, BLUE BELL, PA. Order No. 72082  
(Name & Address of Manufacturer)

2. Manufactured for WASHINGTON PUBLIC POWER SUPPLY SYSTEM Order No. 9779-41G  
(Name and Address) RICHLAND, WASHINGTON

3. Owner WASHINGTON PUBLIC POWER SUPPLY SYSTEM (WPPSS)

4. Location of Plant RICHLAND, WASHINGTON

5. Pump or Valve Identification NUCLEAR SERVICE VALVES - SIZE 1"

SERIAL NUMBER(S) A7327 THRU A7343  
(Brief description of service for which equipment was designed)

(a) Drawing No. 104561-06 Prepared by YARWAY CORPORATION

(b) National Board No. 5274 #302 THRU 318

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

The material, design, construction, and workmanship complies with ASME Code Section III. Class 2

Edition 1974, Addenda Date WINTER 1975, Case No. NONE

[illegible]

(1) For manually operated valves only.

(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.

U.S. GOVERNMENT PRINTING OFFICE: 1945 O-475111 New York, N.Y. 10017.

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

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

DOCUMENT REVIEWED  
 JUN 28 '79 J. M. FEIL  
 By: \_\_\_\_\_  
 U.E. & C.

8. Hydrostatic test 5400 psi.

## CERTIFICATION OF DESIGN

Design information on file at W P P S S - RICHLAND, WASHINGTON  
 Stress analysis report on file at NONE REQUIRED  
 Design specifications certified by RATHIN BASU (1) Prof. Eng. State WASH. Reg. No. 1504  
 Stress analysis report certified by NONE REQUIRED (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 May 2 1979 Signed YARWAY CORPORATION By W. A. Volger  
(Manufacturer) W. 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 or Province of PENNSYLVANIA and employed by PHILA. MANUFACTURERS of MUTUAL INS. CO. OF PHILADELPHIA, PA. have inspected the equipment described in this Data Report on May 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 May 2 1979

S. Paulson  
(Inspector)

(Inspector)  
DAVID L. DAULLARY

Commissions NB 7525 PA 2159  
(National Board, St. Louis)

(National Board, State, Province and No.)

\*PART OF THE FACTORY MUTUAL SYSTEM

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

1. Owner PPL Susquehanna, LLC. Date 05/22/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address

2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 256442  
Repair Organization P.O. No., Job No., etc.

3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A

4. Identification of System MAIN STEAM RELIEF VALVE DISCHARGE SYSTEM 183D, CLASS III

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) LARGE PIPE (BOLTING)	BECHTEL	N/A	N/A	GCD-101-16	1982	REPLACED	YES
2) LARGE PIPE (BOLTING)	PPL	N/A	N/A	GCD-101-16	2002	REPLACEMENT	NO

7. Description of Work REPLACED PIPE FLANGE BOLTING.

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 NONE

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 12, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 3-19-02 to 4-21-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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 NB7980A, N.E.B.NS PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 21 2002

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

1. Owner PPL Susquehanna, LLC. Date 05/22/2002  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address
2. Plant Susquehanna Steam Electric Station Unit ONE  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address PCWO # 322448  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by PPL Susquehanna, LLC. Type Code Symbol Stamp None  
Name  
769 Salem Blvd, Berwick, PA 18603  
Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System MSIV LEAKAGE CONTROL SYSTEM 183H, 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)
1) TUBING SUBASSEMBLY	BECHTEL	N/A	N/A	JD-10-3-1D	1982	REPLACED	YES
2) TUBING SUBASSEMBLY	PPL	N/A	N/A	JD-10-3-1D	2001	REPLACEMENT	NO

7. Description of Work REPLACED TUBING CAP.
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 NONE

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 12, 2002  
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 FACTORY MUTUAL INSURANCE CO. of JOHNSTON, RHODE ISLAND have inspected the components described in this Owner's Report during the period 5-7-01 to 4-21-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be 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. Regent Commissions NB7980 A.N.I. B.N.S. PA2204  
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 21 2002



**FORM R-1 REPORT OF WELDED REPAIR**  
in accordance with provisions of the National Board Inspection Code

1. Work performed by PPL Susquehanna, LLC 00-139-001  
(name of repair organization) (Form R No.)  
707 Salem Blvd. Berwick, PA 18603 276571  
(address) (P.O. No., Job No. etc.)

2. Owner PPL Susquehanna, LLC  
(name)  
707 Salem Blvd. Berwick, PA 18603  
(address)

3. Location of installation PPL Susquehanna, LLC  
(name)  
707 Salem Blvd. Berwick, PA 18603  
(address)

4. Unit identification Demin Vessel Name of original manufacturer Allied Steel Products, Inc.  
(boiler, pressure vessel)

5. Identifying nos.: K-74-70 7592 469344 1F106C 1975  
(mfr serial no.) (National Board No.) (jurisdiction no.) (other) (year built)

6. NBIC Edition/Addenda: 1998 99  
(edition) (addenda)  
Original Code of Construction for Item: ASME Sec. VIII Div. 1 1974 Edition Winter 1974 Addenda  
(name/section/division) (edition/addenda)  
Construction Code Used for Repair Performed: ASME Sec. VIII Div. 1 1998 Ed. 1999 Add.  
(name/section/division) (edition/addenda)

7. Repair Type: ☒ Welded ☐ Graphite Pressure Equipment ☐ FRP Pressure Equipment

8. Description of work: Performed repair of attachment weld to shell wall.  
(use supplemental sheet, Form R-4, if necessary)

Pressure Test, if applied N/A psi MAWP N/A psi

9. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:  
None

10. Remarks: Surface examination performed on final weld surfaces.

**CERTIFICATE OF COMPLIANCE**

I, E.B. GERLACH, PE, certify that to the best of my knowledge and belief the statements in this report are correct and that all material, construction, and workmanship on this Repair conforms to the National Board Inspection Code.  
National Board "R" Certificate of Authorization No. 5449 expires on November 3, 2002  
Date June 18, 2002 PPL Susquehanna, LLC Signed E.B. Gerlach  
(name of repair organization) (authorized representative)

**CERTIFICATE OF INSPECTION**

I, William R. Rogers III, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of Pennsylvania and employed by Factory Mutual Insurance Company of Johnston, Rhode Island have inspected the work described in this report on 12-8, 2000 and state that to the best of my knowledge and belief this work complies with the applicable requirements of 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.  
Date June 21, 2002 Signed William R. Rogers III Commissions NB7980A PA2204  
(inspector) (National Board (incl endorsements), and jurisdiction, 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 1

1. Manufactured by ALLIED STEEL PRODUCTS CORPORATION, KENILWORTH, N.J.  
(Name and Address of Manufacturer)
2. Manufactured for Cochrane Division, Crane Co., Ltd. of Prussia, Pa. DIST: Pennsylvania  
(Name and Address of Purchaser)
3. Type Vert. Vessel No. (K-74-7) Matl. Bd. No. 7592 Yr. Built 1975  
(Horiz. or Vert.) (Mfrs. Serial) (Deposited & Mfrs. No.)
4. SHELL: Matl. T.S. Thk. In. Allow In. Diam. Ft. In. Length Ft. In.  
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.) (Nom. Corr.)
5. SEAMS: Long H.T. R.T. Sectioned Efficiency %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
- Girth DEW H.T. No R. Complete Sectioned No No. of Courses
6. HEADS: (a) Material SA-315-Gr. 70 T.S. 70,000 (b) Material SA-315-Gr. 70 T.S. 70,000  
Location (Top, bottom, ends) Thickness 1 1/2 min. Crown Radius  Knuckle Radius  Elliptical Ratio  Conical Apex Angle  Hemispherical Radius 55 Flat Diameter  Side to Pressure (Convex or Concave) Concave
- (a) Top 1 1/2 min.    55  Concave
- (b) Bottom 1 1/2 min.    60  Concave
- If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)
7. Constructed for max. allowable working press. 740 psi at max. temp. 150 °F. Min. temp. (when less than -20°)  °F. Hydrostatic Test 1110 psi.
8. SAFETY OR RELIEF VALVE OUTLETS: Number 1 - nozzle Size 1-1/4"-400A Location Manhole Cover
9. NOZZLES:
- | Purpose (Inlet, Outlet, Drain) | Number   | Diam. or Size  | Type                | Material       | Thickness            | Reinforcement Material | How Attached |
|--------------------------------|----------|----------------|---------------------|----------------|----------------------|------------------------|--------------|
| <u>Inlet</u>                   | <u>1</u> | <u>13 dia.</u> | <u>SA-240-T-316</u> | <u>Sch. 40</u> | <u>1-1/4 x 3-1/4</u> | <u>welded to sp</u>    | <u></u>      |
| <u>Outlet</u>                  | <u>1</u> | <u>16 dia.</u> | <u>SA-240-T-316</u> | <u>Sch. 40</u> | <u>1-1/4 x 3-1/4</u> | <u>welded to sp</u>    | <u></u>      |
10. INSPECTION Manholes, No. (1) Lenape Size 18"-400 Location Welded to sphere
- OPENINGS: Handholes, No.  Size  Location (L.H. Pod) 1 x 6-1/4" wide
- Threaded, No.  Size  Location
11. SUPPORTS: Skirt (Yes or No) Lugs (Number) Legs 4 Other (Describe) Attached Welded to Sphere  
(Where & How)
12. REMARKS (List applicable special services in accordance with UG-120(d)):
- #0 (continued) (2) 6 dia. - 3" Sight Glass (3) - 3" 400 W.N. Flg. w/ sch. 30  
pipe and 1/3 x 1-3/4" reinf. and  
Welded to 18" M.H. Cover. All internal parts - manifold box, etc., SA-240-T-31  
E.S. (2) - 1" x 7 x 3" lift lugs. Tank Rubber Lined by Others.

TANK NO. 3, FLAN 1

(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 1.

Date August 19 75 Signed Allied Steel Products Corp. By Louis E. Mersi  
(Manufacturer)

Certificate of Authorization No. 1486 Expires February 29, 1978

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Allied Steel Products Corp. Kenilworth, New Jersey

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N.Y. and employed by Commercial Union Ins. Company of Boston, Mass.

have inspected the pressure vessel described in this manufacturer's data report on August 13, 75, 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 August 13, 75

L. E. Mersi  
Inspector's Signature

Commissions

N.B. 4683

Nat'l Board, State, Province and No.