APPENDIX D

ASME REPAIRS AND REPLACEMENTS NIS-2 Forms

APPENDIX D.1

MECHANICAL MAINTENANCE NIS-2 Forms

UNIT 1 ELEVENTH 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 Eleventh 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

WA/WO No	522 FORM NO.	DESCRIPTION OF WORK
		SYSTEM NO. 024A, ASME CLASS III
S73829	98-024-022	PSV-03483E, Repaired valve,
P73751	98-024-023	0E505-E1 & 0E505-E2, Replaced bolting
S71665	98-024-024	0G501E, Trimmed expansion joint plate.
P80275	98-024-025	0E505-B1, Replaced inter-cooler with new.
P80275	98-024-026	0E506-B2, Replaced inter-cooler with new.
P80277	98-024-028	0E506B, Repaired heat exchanger by welding.
P80277	98-024-029	0E506B, Replaced heat exchanger bolting.
P80277	98-024-030	SPHRC-9-H2003, Removed & re-Installed Clip.
P80277	98-024-031	0E506B, Replaced heat exchanger nozzles.
P80275	98-024-032	0E505-B1 & 0E505-B2, Trimmed excess stud material.
P84392	99-024-001	0E505-C1, Replaced inter-cooler with new.
P84392	99-024-002	0E505-C2, Replaced inter-cooler with new.
P84393	99-024-003	0E507C, Replaced bolting.
S91526	99-024-004	034036C, Replaced valve plug.
194210	99-024-006	HRC3-2, Replaced piping.
S90519	99-024-007	034006D, Replaced stem/disc and backseat bushing.
101977	99-024-008	SPHRC9-H2001, Removed & re-Installed Clip.
103049	99-024-009	0E505-A1, Replaced Heat Exchanger bolting.
103049	99-024-010	0E505-A2, Replaced Heat Exchanger bolting.
101977	99-024-011	0E506A, Repaired areas of corrosion by welding.
103049	99-024-012	0E505-A2, Repaired by installation of Helicoil.
214978	99-024-016	034038A, Replaced valve plug.
203932	99-024-019	011514, Replaced valve disc.

SYSTEM NO. 030O, ASME CLASS III

P81612	98-030-002	0K112A, Repaired heat exchanger by welding.
P81053	98-030-003	PSV-08624B2, Replaced valve.
P84204	98-030-004	PSV-08624A2, Replaced valve.
P81612	99-030-001	HRC17-1 & HRC12-2, Repaired flanges by welding.
101073	99-030-002	0K112B, Repaired heat exchanger by welding.

SYSTEM NO. 054A, ASME CLASS III

P73753	98-054-002	HRC3302-2, Replaced Flange bolting.
S83483	98-054-003	HRC3302-2, Replaced pipe.
S83622	98-054-004	HRC3302-3, Replaced pipe & flange.
S83621	99-054-005	HRC3302-3, Replaced pipe flange.
S84190	99-054-007	0P504A, Shop preparation activities.
S84185	99-054-008	0P504A, Pump replacement.
S84191	99-054-009	0P504B, Shop preparation activities.
S84186	99-054-010	0P504B, Pump replacement.
S84188	99-054-014	0P504D, Replaced bolting & suction bell.
S84192	99-054-011	0P504D, Shop preparation activities.
202805	99-054-021	0P504D, Pump replacement.
S84187	99-054-015	0P504C, Shop preparation activities.
S84189	99-054-012	0P504C, Pump replacement.
198393	99-054-018	HRC5-1, FO-01109B; Shop machining.
198189	99-054-020	HRC5-1, FO-01109B; Replacement of flow element.
198189	00-054-001	1RVFT01109B & 2RVFT01109B, Replaced valves & associated pipe.
233800	00-054-002	FP-01124C2, Replaced valve & fittings.
238027	00-054-004	FP01124B1& B2, Removed valves & installed pipe plugs.
237935	00-054-005	FP01124A1& A2, Removed valves & installed pipe plugs.
237940	00-054-006	FP01124C1& C2, Removed valves & installed pipe plugs.
237941	00-054-007	FP01124D1& D2, Removed valves & installed pipe plugs.
238005	00-054-008	FP01124E1& E2, Removed valves & installed pipe plugs.

SYSTEM NO. 054B, ASME CLASS III

S71734	98-054-001	HRC2-42, Replace level probe.
S74531	99-054-001	HV01222A, Replaced valve with reworked valve.
S74532	99-054-002	HV01224A1, Replaced valve with new.
S73972	99-054-003	HV01224A2, Replaced valve with new.
S74531	99-054-004	HRC-1, Flange M2 & M3; Replaced bolting.
S74532	99-054-005	HRC-1, Flange M4 & M5; Replaced bolting.
S73972	99-054-006	HRC-1, Flange M6 & M7; Replaced bolting.

SYSTEM NO. 116A, ASME CLASS III

V81716	98-116-001	1P506A, Repaired series case by welding.
V81655	98-116-002	1P506A, Shop rebuild; replaced bolting.
S83785	98-116-003	1P506A, Replaced pump with refurbished pump.
S83784	98-116-004	1P506B, Shop rebuild; replaced bolting.
S83786	98-116-005	1P506B, Replaced pump with refurbished pump.

SYSTEM NO. 134D, ASME CLASS III

103273	99-134-003	1E231B, Replaced flex hose & Repaired heat exchanger by welding.
103275	99-134-004	1E231D, Repaired heat exchanger by welding.
103130	00-134-001	1E231A, Ground & mapped areas of corrosion & Replaced flex hose.
103130	00-134-003	1E231A, Repaired heat exchanger by welding.
103274	00-134-002	1E231C, Ground & mapped areas of corrosion.
103274	00-134-004	1E231C, Repaired heat exchanger by welding.

SYSTEM NO. 134E, ASME CLASS III

S81025	98-134-011	SPHRC118-2, Repaired weld.
103664	00-134-013	1E229B, Ground & mapped areas of corrosion & Replaced flex hose.
103664	00-134-014	1E229B, Repaired heat exchanger by welding & Replaced bolting.

SYSTEM NO. 134G, ASME CLASS III

P85317	98-134-014	1E230B, Replaced flex hose.
P83575	99-134-002	1E230A, Replaced flex hose & Repaired heat exchanger by welding.
101075	99-134-005	1E230B, Ground & mapped areas of corrosion & Replaced flex hose
101075	99-134-006	1E230B, Repaired heat exchanger by welding.
103084	99-134-007	1E230D, Ground and mapped areas of corrosion.
103084	99-134-008	1E230D, Repaired heat exchanger by welding & Replaced flex hose(s).
224059	00-134-005	1E230A, Ground and mapped areas of corrosion.
224059	00-134-011	1E230A, Repaired heat exchanger by welding & Replace flange nut.
204500	00-134-006	1E230C, Ground and mapped areas of corrosion.
204500	00-134-012	1E230C, Repaired heat exchanger by welding

SYSTEM NO. 135B, ASME CLASS III

S80759	98-135-001	153070A, Replaced leak-off bushing with pipe plug.
P80470	98-135-002	1E202A, Replaced heat exchanger bolting.
P80337	99-135-001	1E202B, Repaired heat exchanger by welding.
P80399	99-135-002	1E202C, Repaired heat exchanger by welding.
P90399	99-135-003	1E202C, Replaced heat exchanger bolting.

SYSTEM NO. 145A, ASME CLASS I

S84442	98-145-004	141818B, Repaired leak-off pipe plug weld.
P70416	98-145-005	141818B, Ground Linear Indications associated with repair.

SYSTEM NO. 145A, ASME CLASS II

S83957	98-145-003	HV141F032A, Repaired leak-off pipe plug weld.
102341	99-145-001	HV141F032A, Performed tack welding during soft seat replacement.
102342	99-145-002	HV141F032B, Performed tack welding during soft seat replacement.

SYSTEM NO. 149A, ASME CLASS II

S90745	99-149-003	HV151F017B, Replaced stem/plug assembly.
S90904	99-149-004	HV151F017A, Replaced stem/plug assembly.
S90938	99-149-005	HV151F017B, Replaced stem/plug assembly.
105686	99-145-015	1P202B, Removed and reinstalled small pipe hanger clips.
105686	99-145-016	1P202B, Replaced pump sub-assembly, seal & associated bolting.
215801	99-149-017	GBB112-2 Flange M1 & M2,
215802	99-149-018	GBB112-2 Flange M3 & M3,
215798	99-149-019	GBB112-1 Flange M1 & M2,
215799	99-149-020	GBB112-1 Flange M3 & M4,
234282	00-149-004	HV151F024A, Removed & Installed tack welds.
234749	00-149-006	HV151F024B, Repaired valve body; build-up by welding.
234745	00-149-007	HV151F024A, Repaired valve body; build-up by welding
242019	00-149-008	GBB109-H35, Re-installed tack welds.
233577	00-149-010	IC-PSH-1N018, Replaced Instrument valve & associated pipe.
246691	00-149-015	HV151F024B, Replaced valve disc & installed tack welds.

SYSTEM NO. 149B, ASME CLASS II

190940	99-149-009	1E205A, Replaced heat exchanger bolting.
190953	99-149-010	1E205B, Replaced heat exchanger bolting.
102785	00-149-009	PSV-15106A, Replaced relief valve base.
102224	00-149-013	1E205A, Installed heat exchanger tube plugs.
102225	00-149-014	1E205B, Installed heat exchanger tube plugs.
246585	00-149-016	HV151F103A, Replaced stem/disc and backseat bushing.

SYSTEM NO. 149B, ASME CLASS III

104904	99-149-011	112F107A, Replaced stem/disc assembly & backseat bushing.
104904	99-149-012	112F108A, Replaced stem/disc assembly & backseat bushing.
104904	99-149-013	112F109A, Replaced stem/disc assembly & backseat bushing.
104904	99-149-014	112F110A, Replaced valve & associated pipe.
102320	00-149-011	PSV-11213A, Replaced valve base.
102321	00-149-012	PSV-11213B, Replaced valve base.

SYSTEM NO. 149E, ASME CLASS II

244606	00-149-020	HV151F021B, Replaced disc & pipe plug.

SYSTEM NO. 149G, ASME CLASS I

188385	00-149-018	SPDCA110-2, Repaired small pipe weld with extended leg fillet.
188260	00-149-019	SPDCA110-3, Repaired small pipe weld with extended leg fillet.

SYSTEM NO. 149G, ASME CLASS II

S90534	99-149-001	151F089B, Replaced disc & repaired seat.
S90534	99-149-002	151F090B, Replaced disc & repaired seat.

SYSTEM NO.150B, ASME CLASS I

104992	00-150-003	HV149F088, Replaced stem/plug assembly.
253137	00-150-004	HV149F007, Replaced valve bonnet.

SYSTEM NO. 150B, ASME CLASS II

S83604	98-150-003	1RV-PI-1R003/1RV-PT-1N007, Replaced stem/disc & backseat.
103139	99-150-001	PSE1D001 & PSE1D002, Replaced RCIC Turbine rupture discs.
232959	00-150-001	149022, Replaced stem/disc & backseat bushing.
232959	00-150-002	149014, Replaced stem/disc & backseat bushing.

SYSTEM NO. 152B, ASME CLASS I

102359	00-152-001	HV155F100, Replaced bonnet & plug/stem assembly.

SYSTEM NO. 153A, ASME CLASS I

247182	00-153-002	HV148F006, Replaced backseat bushing.

SYSTEM NO. 153A, ASME CLASS II

H81005	99-153-001	HV143F004A, Replaced inlet fitting & trigger finger.
H81006	99-153-002	HV143F004B, Replaced inlet fitting & trigger finger.
247365	00-153-001	HV143F004A, Replaced inlet fitting & trigger finger.

SYSTEM NO. 154A, ASME CLASS III

P81053	98-154-001	PSV-08624B1, Replaced valve.
P84204	98-154-002	PSV-08624A1, Replaced valve.

SYSTEM NO. 155, ASME CLASS III

200506	00-155-004	146026 & 146027, Replaced valves and associated pipe.

SYSTEM NO. 155B, ASME CLASS II

S86237	98-155-009	HCU-5835, Replaced nitrogen accumulator.
S84934	98-155-010	HCU-1407, Replaced nitrogen accumulator.
S84752	98-155-012	HCU-3803, Replaced nitrogen accumulator.
S85451	98-155-013	HCU-2227, Replaced nitrogen accumulator.
195870	99-155-001	HCU-0619, Replaced nitrogen accumulator.
195472	99-155-002	HCU-0643, Replaced nitrogen accumulator.
195498	99-155-003	HCU-1443, Replaced nitrogen accumulator.
195499	99-155-004	HCU-3051, Replaced nitrogen accumulator.
195503	99-155-005	HCU-4639, Replaced nitrogen accumulator.
195507	99-155-006	HCU-5039, Replaced nitrogen accumulator.
217687	00-155-001	HCU-3447, Valve 147112, Replaced valve disc.

SYSTEM NO. 159A, ASME CLASS MC

100728	00-159-001	X-003, Containment Head gasket replacement.
100714	00-159-002	X-200A, Suppression Pool A hatch gasket replacement.
100715	00-159-003	X-200B, Suppression Pool B hatch gasket replacement.
100713	00-159-004	X-006, CRD hatch gasket replacement.

SYSTEM NO. 161A, ASME CLASS III

104673	98-235-001	145030A, Replaced valve and associated pipe.
187815	99-161-012	FV14566A, Repaired bonnet & replaced pipe plug.
104585	99-161-013	14513A, Replaced valve.
104585	99-161-014	14513B, Replaced valve.
237159	00-161-009	HV14512A, Replaced valve & ball in new valve.
S44595	95-161-007	HV14512B, Replaced valve. (correction reporting)
237159	00-161-010	HV14512B, Replaced valve.

SYSTEM NO. 161B, ASME CLASS I

S91662	99-161-006	144F004, Replaced stem/disc & backseat bushing.
105258	99-161-008	HV144F004, Replaced gasket-retaining ring & bonnet plug.
105259	99-161-009	HV144F001, Replaced valve bonnet & bonnet plug.
106268	99-161-010	144F003, Replaced stem/disc & backseat bushing.
246731	00-161-011	144F002, Replaced stem/disc & backseat bushing.

SYSTEM NO. 161B, ASME CLASS II

104886	00-161-004	144009A, Replaced backseat bushing.
104886	00-161-005	144009B, Replaced stem/disc & backseat bushing.

SYSTEM NO. 161B, ASME CLASS III

S85145	98-161-007	1E208, Repaired diaphragm leak & replaced bolting.
S90486	99-161-001	1E208, Replaced diaphragm.
S98694	99-161-004	144006A, Replaced stem/disc & backseat bushing.
S98694	99-161-005	144006B, Replaced stem/disc & backseat bushing.
104887	00-161-002	144F018C, Replaced stem/disc & backseat bushing.
104887	00-161-003	144F019C, Replaced stem/disc & backseat bushing.
104893	00-161-012	144011A & 144011B, Replaced valves & associated pipe.
105820	00-161-013	144F043B, Replaced valve disc.

SYSTEM NO. 162A, ASME CLASS I

100443	99-162-003	PSV-141F013A, Replaced relief valve.
100450	99-162-011	PSV-141F013B, Machined nozzle & replaced studs.
100444	99-162-004	PSV-141F013B, Replaced relief valve.
100450	99-162-013	PSV-141F013E, Machined nozzle & replaced disc insert.
100445	99-162-005	PSV-141F013E, Replaced relief valve.
100450	99-162-012	PSV-141F013F, Replaced nozzle, disc insert & studs.
100446	99-162-006	PSV-141F013F, Replaced relief valve.
100447	99-162-007	PSV-141F013H, Replaced relief valve.
100448	99-162-008	PSV-141F013L, Replaced relief valve.
100450	99-162-014	PSV-141F013M, Replaced studs.
100449	99-162-009	PSV-141F013M, Replaced relief valve.
100450	99-162-015	PSV-141F013S, Repaired washer & bearing, replaced spindle & studs.

100363	99-162-010	PSV-141F013S,Replaced relief valve.
105247	99-162-017	DCA111-2 Flange M1, Replaced bolting.
105247	99-162-018	DCA111-2 Flange M2, Replaced bolting.
105247	99-162-020	DBA112-1 Flange M1, Replaced bolting.
105247	99-162-021	DBA112-5 It # 13 & 14, Replaced bolting.
105247	99-162-022	DBA112-5 It # 15 & 16, Replaced bolting.
100681	99-162-023	02-19, Replaced control rod drive & bolts
100682	99-162-024	02-43, Replaced control rod drive & bolts
100683	99-162-025	10-39, Replaced control rod drive & bolts
100684	99-162-026	14-15, Replaced control rod drive & bolts
100685	99-162-027	14-43, Replaced control rod drive & bolts
100686	99-162-028	18-31, Replaced control rod drive & bolts
100687	99-162-029	22-07, Replaced control rod drive & bolts
100688	99-162-030	22-51, Replaced control rod drive & bolts
100689	99-162-031	30-43, Replaced control rod drive & bolts
100690	99-162-032	30-59, Replaced control rod drive & bolts
100691	99-162-033	34-03, Replaced control rod drive & bolts
100692	99-162-034	06-23, Replaced control rod drive & bolts
100693	99-162-035	14-07, Replaced control rod drive & bolts
100694	99-162-036	38-51, Replaced control rod drive & bolts
245688	00-162-001	42-11, Replaced drive rod flange cap screws.
100695	99-162-037	42-11, Replaced control rod drive & bolts
100696	99-162-038	46-11, Replaced control rod drive & bolts
100697	99-162-039	46-43, Replaced control rod drive & bolts
100698	99-162-040	26-19, Replaced control rod drive & bolts
100699	99-162-041	50-35, Replaced control rod drive & bolts
100700	99-162-042	58-43, Replaced control rod drive & bolts
195978	00-162-002	HV141F022B, Replaced valve stem.
196005	00-162-003	HV141F022D, Replaced valve stem.
243710	00-162-004	HV141F022C, Replaced valve stem.

SYSTEM NO. 164A, ASME CLASS I

240247	00-164-004	XV143F012A, Replaced excess check valve.
240247	00-164-005	SPDCA120-4, Replaced piping for valve installation.

SYSTEM NO. 164B, ASME CLASS I

S82752	98-164-008	1P504B, Replace pump seal.
188430	99-164-001	SPDCA144-H2121, Installed shim.
104153	00-164-001	143F027A & 143F028A Replaced valves, associated pipe & small pipe clip.
240297	00-164-002	143F051B, Replaced stem/disc assembly & backseat bushing.
188326	00-164-006	SPDCA119-2, Repaired small pipe weld with extended leg fillet.
188376	00-164-007	SPDCA121-4, Repaired small pipe weld with extended leg fillet.
188387	00-164-008	SPDCA108-5, Repaired small pipe weld with extended leg fillet.
188350	00-164-009	SPDCA122-4, Repaired small pipe weld with extended leg fillet.
216889	00-164-010	HV143F019, Replaced stem/plug & Repaired replacement by machining.

SYSTEM NO. 169A, ASME CLASS II

247180	00-169-001	HV16116A1, Machined valve wedge.

SYSTEM NO. 173C, ASME CLASS II

251632	00-173-001	75KK-201-45, Reversed valve flow & replaced disc.

SYSTEM NO. 183A, ASME CLASS I

187861	99-183-002	HV141F028A, Removed body to bonnet seal weld.
187338	99-183-004	HV141F028C, Increased size of poppet lifting hole & replaced stem.
187861	99-183-005	HV141F028A, Replaced valve stem.
196009	00-183-001	HV141F028D, Replaced valve stem.
243771	00-183-006	HV141F028A, Replaced valve stem.

SYSTEM NO. 183A, ASME CLASS II

S82934	98-183-017	1RV-PP-10101B, Replaced stem/disc assembly & backseat bushing.
S82933	98-183-018	SP-DBB-105-3-33, Replaced valve body, stem/disc & backseat bushing.
S82832	98-183-019	HV10109, Replaced leak-off line compression fitting.
S83476	98-183-021	2RV-LSL-10112B, Replaced stem/disc assembly & backseat bushing.
S83477	98-183-022	3RV-LSH-10112C, Replaced stem/disc assembly & backseat bushing.
S84570	98-183-023	SP-DBB-103-4-51, Replaced stem/disc assembly & backseat bushing.
106322	99-183-001	1RV-LSL-10112D, Replaced stem/disc assembly & backseat bushing.
105219	99-183-007	SP-DBB-102-4-62, Replaced stem/disc assembly & backseat bushing.
104757	99-183-009	SP-DBB-103-5-15, Replaced stem/disc assembly & backseat bushing.
104757	99-183-010	SP-DBB-102-4-57, Replaced stem/disc assembly & backseat bushing.
104757	99-183-012	SP-DBB-103-4-53, Replaced stem/disc assembly & backseat bushing.
104757	99-183-014	SP-DBB-104-4-54, Replaced stem/disc assembly & backseat bushing.
104874	99-183-015	3RV-LSH/LSHH/LSL-10112A, Replaced stem/disc & backseat bushing.
104789	99-183-017	141010A, Replaced stem/disc assembly & backseat bushing.
104789	99-183-018	141011A, Replaced stem/disc assembly & backseat bushing.
240339	00-183-003	SP-DBB-103-4-54, Replaced stem/disc assembly & backseat bushing.
240444	00-183-004	SP-DBB-101-5-15, Replaced stem/disc assembly & backseat bushing.
104757	00-183-005	SP-DBB-104-4-52, Replaced stem/disc assembly & backseat bushing.
250692	00-183-008	3RV-LSL-10112D, Replaced stem/disc assembly & backseat bushing.
250690	00-183-009	SP-DBB-101-4-53, Replaced stem/disc assembly & backseat bushing.
250871	00-183-010	2RV-PP-10100B, Replaced stem/disc assembly & backseat bushing.

SYSTEM NO. 193G, ASME CLASS II

105218	99-193-001	3RV-PDT-10101B, Replaced stem/disc assembly & backseat bushing.
104757	99-193-002	1RV-PDT-10101B, Replaced stem/disc assembly & backseat bushing.

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

W.A. NO.	522 FORM NO.	DISCRIPTION OF WORK
P80397	99-065-001	0K325A, HTX Weld Repair
103038	00-065-001	0K325B, HTX Weld Repair
P80768	98-133-001	1K102A, HTX Weld Repair
101127	99-133-001	1K102B, HTX Installation of Nozzle
P80966	99-134-001	1K106B, HTX Weld Repair of Nozzle
196402	00-147-003	1E103A, HTX Flush Patch Repair
250132	00-147-004	1E103A, HTX Flush Patch Repair
196402	00-147-008	1E103A, HTX Flush Patch Repair
248997	00-147-009	1E103A, HTX Tube Patch Repair
196405	00-147-002	1E103B, HTX Flush Patch Repair
250131	00-147-007	1E103B, HTX Flush Patch Repair
196407	00-147-001	1E103C, HTX Flush Patch Repair
250857	00-147-008	1E103C, HTX Flush Patch Repair
102062	00-164-003	1E126A, HTX Weld Repair
100785	00-184-001	1T104B, Installed Lifting Lugs
196939	OUT-99-2	1F116A, Documentation of Out-Source Repair

5.0 REPAIR SUMMARY

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

5.1 NATIONAL INSPECTION BOARD CODE SECTION I REPLACEMENT

W.A. NO.	522 FORM NO.	DISCRIPTION OF WORK
S82863	98-027-001	021026, Replaced valve

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/22/00

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

Unit: Common

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 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 & N-496-1 (*SEE SHEET 6)*

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) RELIEF VALVE	BORG WARNER	80483	N/A	PSV-03483E	1984	REPAIRED	YES
2) INTERCOOLER BOLTING	PERFEX	1129501-2	7103	OE505E1	1984	REPLACED	YES
3) INTERCOOLER BOLTING	PP&L	N/A	N/A	OE505E1	1998	REPLACEMENT	NO
4) INTERCOOLER BOLTING	PERFEX	1129501-1	7102	OE505E2	1984	REPLACED	YES
5) INTERCOOLER BOLTING	PP&L	N/A	N/A	OE505E2	1998	REPLACEMENT	NO
6) FLEX BELLOWS	METAL BELLOWS	004	N/A	OG501E	1984	REPAIRED	YES
7) INTERCOOLER	PERFEX	841601-1	5659	0E505-B1	1976	REPLACED	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** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 3 ~~19~~ 2000

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 1-5-99 to 5-5-00, 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.

[signature] Inspector's Signature

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

Date July 10 ~~19~~ 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/22/00

Sheet 2 of 6

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 & N-496-1 (*SEE SHEET 6)*

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) INTERCOOLER	JOSEPH OAT	2576D	3243	0E505-B1	1998	REPLACEMENT	YES
9) INTERCOOLER	PERFEX	924601-3	6055	0E505-B2	1978	REPLACED	YES
10) INTERCOOLER	JOSEPH OAT	2576C	3242	0E505-B2	1998	REPLACEMENT	YES
11) LUBE OIL COOLER	PERFEX	7-20009-06-1	29144	0E506B	1975	REPAIRED	YES
12) LUBE OIL COOLER BOLTING	PERFEX	7-20009-06-1	29144	0E506B	1975	REPLACED	YES
13) LUBE OILCOOLER BOLTING	PP&L	N/A	N/A	0E506B	1998	REPLACEMENT	NO
14) SMALL PIPE HANGER	BECHTEL	N/A	N/A	SPHRC9-H2003	1982	REPAIRED	NO
15) LUBE OIL COOLER (COUPLING)	PERFEX	7-20009-06-1	29144	0E506B	1975	REPLACED	YES
16) LUBE OIL COOLER (COUPLING)	PP&L	N/A	N/A	0E506B	1999	REPLACEMENT	NO
17) INTERCOOLER	JOSEPH OAT	2576D	3243	0E505-B1	1998	REPAIRED	YES
18) INTERCOOLER	JOSEPH OAT	2576C	3242	0E505-B2	1998	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/22/00

Sheet 3 of 6

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 & N-496-1 (*SEE SHEET 6)*

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) INTERCOOLER	PERFEX	841601-3	5661	0E505-C1	1976	REPLACED	YES
20) INTERCOOLER	JOSEPH OAT	2576B	3241	0E505-C1	1998	REPLACEMENT	YES
21) INTERCOOLER	PERFEX	841601-2	5660	0E505-C2	1976	REPLACED	YES
22) INTERCOOLER	JOSEPH OAT	2576A	3240	0E505-C2	1998	REPLACEMENT	YES
23) JACKET WATER COOLER BOLTING	AMERICAN STANDARD	7-20009-01-1	29140	0E507C	1975	REPLACED	YES
24) JACKET WATER COOLER BOLTING	PP&L	N/A	N/A	0E507C	1999	REPLACEMENT	NO
25) VALVE PLUG	X0MOX	89272L-6 (VALVE)	N/A	034036C	1980	REPLACED	YES
26) VALVE PLUG	FONDERIES	5	N/A	034036C	1988	REPLACEMENT	NO
27) LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	HRC-3-2	1994	REPLACED	NO
28) LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	HRC-3-2	1999	REPLACEMENT	NO
29) STEM/DISC ASSEMBLY	YARWAY	A0306	N/A	034006D	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/22/00

Sheet 4 of 6

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 & N-496-1 (*SEE SHEET 6)*

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) STEM/DISC ASSEMBLY	YARWAY	TEZG-A4	N/A	034006D	1999	REPLACEMENT	YES
31) BACKSEAT BUSHING	YARWAY	A0306	N/A	034006D	1977	REPLACED	YES
32) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	034006D	1999	REPLACEMENT	NO
33) SMALL PIPE HANGER	BECHTEL	N/A	N/A	SPHRC9-H2001	1982	REPAIRED	NO
34) HEAT EXCH BOLTING	SENIOR ENGINEERING	14455-01-2	8302	OE505A1	1994	REPLACED	YES
35) HEAT EXCH BOLTING	PP&L	N/A	N/A	OE505A1	1999	REPLACEMENT	NO
36) HEAT EXCH BOLTING	SENIOR ENGINEERING	14455-01-1	8301	OE505A2	1994	REPLACED	YES
37) HEAT EXCH BOLTING	PP&L	N/A	N/A	OE505A2	1999	REPLACEMENT	NO
38) LUBE OIL COOLER	AMERICAN STANDARD	7-20009-06-2	29145	OE506A	1975	REPAIRED	YES
39) INTERCOOLER	SENIOR ENGINEERING	14455-01-1	8301	OE505A2	1994	REPAIRED	YES
40) VALVE PLUG	ATWOOD & MORRILL	7-18100-1	N/A	034038A	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/22/00

Sheet 5 of 6

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 & N-496-1 (*SEE SHEET 6)*

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) VALVE PLUG	FONDERIES	1	N/A	034038A	1988	REPLACEMENT	NO
42) VALVE DISC	PACIFIC	0895-5 (VALVE)	N/A	011514	1985	REPLACED	YES
43) VALVE DISC	PACIFIC	0435-9 (DISC)	N/A	011514	1990	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: PP&L Inc. (Name) — Date: 06/22/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 6 of 6

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: COMMON

PO Box 467, Berwick, PA 18603 (Address) — SEE LIST BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 & N-496-1 (*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	S73829	PSV-03483E, DRILLED HOLE IN VALVE DISC AND SEAL WELDED BONNET	NON VT-2 PER MI-PS-008	VALVE, 1980 ED SUM 81 ADD.
2-5	P73751	OE505E1 & OE505E2, REPLACED HTX BOLTING	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, 1980 ED SUM 81 ADD.
6	S71665	OG501E, TRIMMED FLEX BELLOWS PLATE FOR NDE ACCESS	NON VT-2 PER MI-PS-008	1980 ED SUM 81 ADD. CODE CASE N-192-2
7-10	P80275	OE505B1 & OE505B2, REPLACED HEAT EXCHANGERS WITH NEW	VT-2 PER SE-054-301 TEMP 36°F/ 91 PRESS	ORIG AND REPLACE HEAT EXCH, SEC III ' 74 ED SUM 74 ADD
11-14	P80277	OE506B, REPAIRED HEAT EXCHANGER BY WELDING, REPLACED BOLTING & REMOVED/REINSTALLED SUPPORT CLIP	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD
15-16	P80277	OE506B, REPLACED HEAT EXCHANGER NOZZLE (COUPLING)	VT-2 PER SE-054-301 TEMP 36°F/ 91 PRESS	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD
17-18	P80275	OE505B1 & OE505B2, TRIMMED HTX BOLTING	N/A	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD
19-22	P84392	OE505C1 & OE505C2, REPLACED HEAT EXCHANGERS WITH NEW	VT-2 PER SE-054-301 TEMP 77°F/ 94 PRESS	ORIG AND REPLACE HEAT EXCH, SEC III ' 74 ED SUM 74 ADD
23-24	P84393	0E507C, REPLACED HEAT EXCH BOLTING	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD
25-26	S91526	034036C, REPLACED VALVE BALL	NON VT-2 PER MI-PS-008	VALVE '77 ED S' 78 ADD REPLACE PART 74 ED NO ADD
27-28	194210	HRC3-2, REPLACED PIPING	VT-2 PER SE-054-301 TEMP 75°F/ 123 PRESS	71 ED W'72 ADD
29-32	S90519	034006D, REPLACED STEM/DISC ASSEMBLY & BACKSEAT BUSHING	NON VT-2 PER MI-PS-008	ORIG VALVE '74 ED W' 74 ADD REPLACE PART(S) 86 ED NO ADD
33	101977	SPHRC9-H2001, INSTALLED SUPPORT CLIP BY WELDING	N/A	71 ED W 72 ADD
34-37	103049	0E505A1 & 0E505A2, REPLACED HEAT EXCHANGER BOLTING WITH NEW	NON VT-2 PER MI-PS-008	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD CC-242
38	101977	0E506A, REPAIRED HEAT EXCHANGER AREAS OF CORROSION BY WELDING	VT-2 PER SE-054-301 TEMP 100°F/ 131 PRESS	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD
39	103049	0E505A2, REPAIRED HEAT EXCHANGER BY HELICOIL INSTALLATION	VT-2 PER SE-054-301 TEMP 100°F/ 131 PRESS	HEAT EXCHANGER, SEC III ' 74 ED SUM 74 ADD CC-242
40-41	214978	034038A, REPLACED VALVE BALL	NON VT-2 PER MI-PS-008	ORIG VALVE & REPLACE PART '74 ED NO ADD
42-43	203932	011514, REPLACED VALVE DISC	NON VT-2 PER MI PS-008	VALVE '71 ED W'72, DISC '71 ED W'72 CC N-62-4

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. (horiz. or vert.) Heat Exchanger (tank, jacketed, heat ex.) 2576D (Cert. Holder's serial no.) ——— (CRN) E-11892.01/0 (drawing no.) 3243 (Nat'l. Bd. no.) 1998 (year built)
5. ASME Code, Section III, Division 1: 1974 (edition) Summer 74 (addenda date) ~~N-242~~ 01217198 (Code Case no.) 3 (issue)

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. (ft & in.)) ——— (length (overall) (ft & in.))
7. Seams: ——— (long.) ——— (HT') ——— (RT) ——— (eff. %) ——— (girth) ——— (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 ——— (mat'l. spec. no., size, quantity) Other fastening ——— (describe or attach sketch)

9. Jacket closure: ——— (Describe as ogee & weld, bar, etc. If bar, give dimensions, describe or sketch)
10. Design pressure[2] ——— (psi) at max. temp. ——— (°F). Min. pressure-test temp. ——— (°F). Pneu., hydro., or comb. test pressure ——— (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SB171-706 (stationary, mat'l. spec. no.) 29" x 21.25" (dia. in. (subject to press.)) 1.375 (thickness (in.)) WELDED (attachment (welded, bolted))
    ——— (floating, mat'l. spec. no.) ——— (dia. (in.)) ——— (thickness (in.)) ——— (attachment)
12. Tubes: SB111-706 (mat'l. spec. no.) .375 (OD (in.)) .035" (thickness (inches or gage)) 423 (no.) STRAIGHT (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 (mat'l. spec. no.) 40 ksi (tensile strength) 1.75/1.50 (nom. thickness (in.)) 1.366 (min. design thickness (in.)) 2'-4" x 1'-9.25" (dia. (ft. & in.)) 3'-3.25" (length (overall) (ft & in.))
14. Seams: ——— (long. (welded, dbl., angle)) ——— (HT' (yes or no)) ——— (RT) ——— (eff. %) ——— (girth) ——— (HT') ——— (RT) ——— (no. of courses)
15. Heads: SB171-706 ((a) mat'l. spec. no.) 40 ksi (tensile strength) SB171-706 ((b) mat'l. spec. no.) 40 ksi (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 (mat'l. spec. no., size, quantity) Other fastening ——— (describe or attach sketch)

16. Design pressure[2] 150 (psi) at 200 (°F). Min. pressure-test temp. 50 (°F). Pneu., hydro., or comb. test pressure 225 (psi)

[1] If post-weld heat treated. [2] List 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 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 number of sheets is recorded at top of this form.

(12-86) This form (E00038) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM N-1 (back)

Mfr. Serial No. 2576D

17. 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	SB466-706	.216"	SELF	------
IN/OUT	2	1.25"	CPLG	WELDED	SB171-706	.295	SELF	------

18. Supports: Skirt No (yes or no) Lugs ----- (quantity) Legs ----- (quantity) Other ----- (description) Attached ---------- (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.

N Certificate of Authorization No. N-1488 Expires 08/23/2000

Date 11/18/98 Name Joseph Oat Corporation (N Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NJ and employed by Commercial Union Insurance Company of Boston, MA. have inspected the component described in this Data Report on 11-18-98, 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 11-18-98 Signed [signature] (Authorized Inspector) Commissions NB 6105 B,N, NJ 4411 (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 ---------- (N Certificate Holder) Signed ---------- (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 and 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.)

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. (horiz. or vert.) Heat Exchanger (tank, jacketed, heat ex.) 2576C (Cert. Holder's serial no.) ------ (CRN) E-11892.01/0 (drawing no.) 3242 (Nat'l. Bd. no.) 1998 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) Summer 74 (addenda date) ~~N-240~~ N513-17 (Code Case no.) 3 (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[1]) ------ (RT) ------ (eff. %) ------ (girth) ------ (HT[1]) ------ (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 ---------- (mat'l. spec. no., size, quantity) Other fastening ---------- (describe or attach sketch)

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

10. Design pressure[2] ------ (psi) at max. temp. ------ (°F), Min. pressure-test temp. ------ (°F), Pneu., hydro., or comb. test pressure ---- (psi)

Items 11 and 12 to be completed for tube sections.

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

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

12. Tubes: SB111-706 (mat'l. spec. no.) .375 (OD (in.)) .035" (thickness (inches or gage)) 423 (no.) STRAIGHT (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 (mat'l. spec. no.) 40 ksi (tensile strength) 1.75/1.50 (nom. thickness (in.)) 1.366 (min. design thickness (in.)) 2'-4" x 1'-9.25" (dia. ID (ft. & in.)) 3'-3.25" (length (overall) (ft & in.))

14. Seams: ---------- (long. (welded, bol., singles)) ------ (HT[1] (yes or no)) ------ (RT) ------ (eff. %) ------ (girth) ------ (HT[1]) ------ (RT) ------ (no. of courses)

15. Heads: SB171-706 ((a) mat'l. spec. no.) 40 ksi (tensile strength) SB171-706 ((b) mat'l. spec. no.) 40 ksi (tensile strength) ---------- ((a) 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 (mat'l. spec. no., size, quantity) Other fastening ---------- (describe or attach sketch)

16. Design pressure[2] 150 (psi) at 200 (°F). Min. pressure-test temp. 50 (°F). Pneu., hydro., or comb. test pressure 225 (psi)

[1] If postweld heat treated. [2] List 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 8½ x 11, (2) information in items 1 through 4 on this report is included on each sheet, (3) each sheet is numbered and number of sheets is recorded at top of this form.

(12/88) This form (E00038) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM N-1 (back)

Mfr. Serial No. 2576C

17. 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	SB466-706	.216"	SELF	------
IN/OUT	2	1.25"	CPLG	WELDED	SB171-706	.295	SELF	------

18. Supports: Skirt No (yes or no) Lugs ------ (quantity) Legs ------ (quantity) Other ------ (describe) Attached ---------- (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.

N Certificate of Authorization No. N-1488 Expires 08/23/2000

Date 11/18/98 Name Joseph Oat Corporation (N Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NJ and employed by Commercial Union Insurance Company of Boston, MA. have inspected the component described in this Data Report on 11-18-98, 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 11-18-98 Signed [signature] (Authorized Inspector) Commissions NB 6105 B,N ; NJ 401 (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 ---------- (N Certificate Holder) Signed ---------- (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 and 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.)

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)

. 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. (horiz. or vert.) | Heat Exchanger (tank, jacketed, heat ex.) | 2576B (Cert. Holder's serial no.) | ------ (CRN) | E-11892.01/0 (drawing no.) | 3241 (Nat'l. Bd. no.) | 1998 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) | Summer 74 (addenda date) | ~~N-242~~ R15/2-17-98 (Code Case no.) | 3 (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[1]) | ------- (RT) | ------- (eff. %) | ------- (girth) | ------- (HT[1]) | ------- (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 ---------- (mat'l. spec. no., size, quantity) Other fastening ---------- (describe or attach sketch)

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

10. Design pressure[2] ----- (psi) at max. temp. ----- (°F). Min. pressure-test temp. ----- (°F). Pneu., hydro., or comb. test pressure ----- (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SB171-706 (stationary, mat'l. spec. no.) | 29" x 21.25" (dia. in. (subject to press.)) | 1.375 (thickness (in.)) | WELDED (attachment (welded, bolted)) 8/11/98 15/17/98

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

12. Tubes: SB111-706 (mat'l. spec. no.) | .375 (OD (in.)) | .035" (thickness (inches or gage)) | 423 (no.) | STRAIGHT (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 (mat'l. spec. no.) | 40 ksi (tensile strength) | 1.75/1.50 (nom. thickness (in.)) | 1.366 (min. design thickness (in.)) | 2'-4" x 1'-9.25" (dia. ID (ft. & in.)) | 3'-3.25" (length (overall) (ft & in.))

14. Seams: ---------- (long. (welded, dbl., single)) | ------- (HT[1] (yes or no)) | ------- (RT) | ------- (eff. %) | ------- (girth) | ------- (HT[1]) | ------- (RT) | ------- (no. of courses)

15. Heads: SB171-706 ((a) mat'l. spec. no.) | 40 ksi (tensile strength) | SB171-706 ((b) mat'l. spec. no.) | 40 ksi (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 (mat'l. spec. no., size, quantity) Other fastening ---------- (describe or attach sketch)

Design pressure[2] 150 (psi) at 200 (°F). Min. pressure-test temp. 50 (°F). Pneu., hydro., or comb. test pressure 225 (psi)

[1]If postweld heat treated. [2]List 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 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 number of sheets is recorded at top of this form.

(12/86) This form (E00038) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

FORM N-1 (back)

Mfr. Serial No. 2576B

17. 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	SB466-706	.216"	SELF	------
IN/OUT	2	1.25"	CPLG	WELDED	SB171-706	.295	SELF	------

18. Supports: Skirt No (yes or no) Lugs ------ (quantity) Legs ------ (quantity) Other ------ (describe) Attached ---------- (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.

N Certificate of Authorization No. N-1488 Expires 08/23/2000

Date 11/5/98 Name Joseph Oat Corporation (N Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NJ and employed by Commercial Union Insurance Company of Boston, MA. have inspected the component described in this Data Report on 11-3-98, 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 11-5-98 Signed [signature] (Authorized Inspector) Commissions NB-10539-NA/NJ-1121 (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 _____ (N Certificate Holder) Signed _____ (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 and 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.)

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 Cat Corporation, 2500 Broadway, Camden, N.J. 08104
(name and address of N Certificate Holder)

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. (horiz. or vert.) | Heat Exchanger (tank, jacketed, heat ex.) | 2576A (Cert. Holder's serial no.) | ------ (CRN) | E-11892.01/0 (drawing no.) | 3240 (Nat'l. Bd. no.) | 1998 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) | Summer 74 (addenda date) | ~~N-242~~ RLS 12-17-99 (Code Case no.) | 3 (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[1]) | ---------- (RT) | ---------- (eff. %) | ---------- (girth) | ---------- (HT[1]) | ---------- (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 ---------- (mat'l. spec. no., size, quantity) Other fastening ---------- (describe or attach sketch)

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

10. Design pressure[2] ---- (psi) at max. temp. ---- (°F). Min. pressure-test temp. ---- (°F). Pneu., hydro., or comb. test pressure ---- (psi)

Items 11 and 12 to be completed for tube sections.

11. Tubesheets: SB171-706 (stationary, mat'l. spec. no.) | 29" x 21.25" (dia. in. (subject to press.)) | 1.375 (thickness (in.)) | WELDED (attachment (welded, bolted)) 11/17/96 5/17/98

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

12. Tubes: SB111-706 (mat'l. spec. no.) | .375 (OD (in.)) | .035" (thickness (inches or gage)) | 423 (no.) | STRAIGHT (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 (mat'l. spec. no.) | 40 ksi (tensile strength) | 1.75/1.50 (nom. thickness (in.)) | 1.366 (min. design thickness (in.))[1] | 2'-4" x 1'-9.25" (dia. ID (ft. & in.)) | 3'-3.25" (length (overall) (ft & in.))

14. Seams: ---------- (long. (welded, dbl., single)) | ------ (HT[1] (yes or no)) | ------ (RT) | ------ (eff. %) | ------ (girth) | ------ (HT[1]) | ------ (RT) | ------ (no. of courses)

15. Heads: SB171-706 ((a) mat'l. spec. no.) | 40 ksi (tensile strength) | SB171-706 ((b) mat'l. spec. no.) | 40 ksi (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 (mat'l. spec. no., size, quantity) Other fastening ---------- (describe or attach sketch)

Design pressure[2] 150 (psi) at 200 (°F). Min. pressure-test temp. 50 (°F). Pneu., hydro., or comb. test pressure 225 (psi)

[1]If postweld heat treated. [2]List 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 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 number of sheets is recorded at top of this form.

FORM N-1 (back)

Mfr. Serial No. 2576A

17. 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	SB466-706	.216"	SELF	------
IN/OUT	2	1.25"	CPLG	WELDED	SB171-706	.295	SELF	------

18. Supports: Skirt No (yes or no) Lugs ------ (quantity) Legs ------ (quantity) Other ------ (describe) Attached ---------- (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.

N Certificate of Authorization No. N-1488 Expires 08/23/2000

Date 11/5/98 Name Joseph Oat Corporation (N Certificate Holder) Signed (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 11-3-98, 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 11-5-98 Signed (Authorized Inspector) Commissions NB-10539-NA/NJ-1121 (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 _____ (N Certificate Holder) Signed _____ (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 and 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 5019652 SALES ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760 (name and address of NPT Certificate Holder)
2. Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24508 (name and address of purchaser)
3. Location of installation STOCK (name and address)
4. Type 969155-06 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25	—	(50)	

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

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

FTI OP SUP PBG

FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 * ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [illegible] (Authorized Inspector) Commissions NB9541'N' PA2389 (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

FTI OP SUP PBG

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

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

Pg 1 of 1

1. Manufactured and certified by Pacific Valves, 3201 Walnut Ave., Long Beach, CA 90807 (name and address of certificate holder)
2. Manufactured for Pennsylvania Power & Light Co., Two N. Ninth St., Allentown, PA 18101 (name and address of purchaser)
3. Location of installation Susquehanna Steam Electric Station, 5 Mi. NE Berwick on Rt. 11, Berwick, PA (name and address)
4. Type 001147-K (drawing no.) ASME SA217, WC6 (mat'l. spec. no.) 81,100 (tensile strength) N/A (CRN) 1990 (year built)
5. ASME Code, Section III: 1971 (edition) Winter, 1972 (addenda) 3 (class) N-62-4 (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (No.) Revision N/A Date N/A
7. Remarks: Customer P. O. No. 8-57274-1 Item 5
   Pacific Valves Shop Job 9N1053N Item 5A
8. Nom. thickness (in.) N/A Min. design thickness (in.) .34 Dia. ID (ft. & in.) N/A Length overall (ft. & in.) N/A
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 0435-9		(26)	
(2) 0436-9		(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)	

No. 9D-0771
RECORD PACKAGE
PAGE 4 OF

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

*Supplemental information in form of lists, sketches or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 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, and (4) each additional sheet shall be signed by the Certificate Holder and the ANI.

This form (800040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

(6/83)

9102321776

FORM N-2 (back)

CERTIFICATE OF DESIGN

Design specifications certified by Dale Sattar P. E. state PA Reg. no. 195

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) 10 S15-71-W Discs conform to the rules of construction of the ASME Code, Section III.

ASME Certificate of Authorization no. N-1203 Expires 8-4-90

Date 7-27-90 Name Pacific Valves (NPT Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of California and employed by DOSH of California have inspected these items described in this data report on 7-27-90 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 7-27-90 Signed [signature] (Authorized Inspector) Commissions Ca. 1234 (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 of 3

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

Unit: Common

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: CONTROL STRUCTURE CHILLED WATER SYSTEM 030O, 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 SHEET 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) CHILLER CONDENSER	CARRIER	700192	129327	0K112A	1976	REPAIRED	YES
2) CHILLER CONDENSER BOLTING	CARRIER	700192	129327	0K112A	1976	REPLACED	YES
3) CHILLER CONDENSER BOLTING	PP&L	N/A	N/A	0K112A	1999	REPLACEMENT	NO
4) VACUUM RELIEF VALVE	CROSBY	N67795-00-0004	N/A	PSV-08624B2	1984	REPLACED	YES
5) VACUUM RELIEF VALVE	CROSBY	N67795-00-0009	N/A	PSV-08624B2	1988	REPLACEMENT	YES
6) VACUUM RELIEF VALVE	CROSBY	N67795-00-0002	N/A	PSV-08624A2	1984	REPLACED	YES
7) VACUUM RELIEF VALVE	CROSBY	N67795-00-0008	N/A	PSV-08624A2	1988	REPLACEMENT	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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 2 of 3

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CONTROL STRUCTURE CHILLED WATER SYSTEM 030O, 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 80 thru W'81 (* SEE SHEET 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) LARGE PIPE ASSEMBLY	BECHTEL	N/A	N/A	HRC-17-1	1982	REPAIRED	YES
9) LARGE PIPE ASSEMBLY	BECHTEL	N/A	N/A	HRC-12-2	1982	REPAIRED	YES
10) CHILLER CONDENSER	CARRIER	700193	129338	0K112B	1976	REPAIRED	YES
11) CHILLER CONDENSER BOLTING	CARRIER	700193	129338	0K112B	1976	REPLACED	YES
12) CHILLER CONDENSER BOLTING	PP&L	N/A	N/A	0K112B	1999	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 3 of 3

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

Unit: COMMON

SEE LIST BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CONTROL STRUCTURE CHILLED WATER SYSTEM 030O, 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 (* SEE CODE EDITION BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ORDER	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-3	P81612	0K112A, REPAIRED AREAS OF CORROSION BY WELDING & REPLACED BOLTING	VT-2 PER TP-000-001 TEMP 34°F/ PRESS 123 PSIG	0K112A, 1971 ED WIN 73 ADD
4-5	P81053	PSV08624B2, REPLACE VALVE WITH VENDOR REFURBISHED VALVE	VT-2 PER SE-054-301 TEMP 55°F/ PRESS 121 PSIG	ORIG & NEW VALVE, '71 ED/W'72 ADD.
6-7	P84204	PSV08624A2, REPLACE VALVE WITH VENDOR REFURBISHED VALVE	VT-2 PER SE-054-301 TEMP 34°F/ PRESS 91 PSIG	ORIG & REFURBISHED VALVE, '71 ED/W'72 ADD.
8-9	P81612	RESURFACED VALVE FLANGES BY WELDING	NON-VT-2 PER MIS-PS-008	1971 ED WIN 73 ADD
10-12	101073	0K112B, REPAIRED AREAS OF CORROSION BY WELDING & REPLACED BOLTING	NON-VT-2 PER MIS-PS-008	0K112B, 1971 ED WIN 73 ADD

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES Q.C.-44C-1
As required by the Provisions of the ASME Code Rules

DATA REPORT
Safety and Safety Relief Valves

nufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address

del No. VR Order No N85075 Contract Date 10/20/87 National Board No. --

nufactured For Pennsylvania Power & Light Co.
2 No. 9th Street Allentown, PA 18101 Order No. 6-14904-1
Name and Address

wner Pennsylvania Power & Light Co.
Name and Address

cation of Plant Susquehanna SES Berwick, PA

lve Identification PSV-08624A2 Serial No. N67795-00-0009 Drawing No. DS-C-67795 Rev. A

Vacuum Orifice Size -- Pipe Size --- Inlet 2 Outlet 2
Safety.Safety Relief.Pilot.Power Actuated Inch Inch Inch Inch

t Pressure (PSIG) 0.2 PSIG 125 F
Rated Temperature

amped Capacity 128 SCFM AIR @ 60°F @ 0.7 PSID % Overpressure -- Blowdown (PSIG) ---

drostatic Test (PSIG) Inlet ---- Complete Valve 255

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

ass 3 Edition 1971, Addenda Date Winter 1972, Case No. --

essure Containing or Pressure Retaining Components

Forgings	Serial No. Identification	Material Specification Including Type or Grade
Body	N94530-35-0018	ASME SA 105
Bonnet	N94531-33-0013	ASME SA 105
Bar Stock and Forgings		
Cage	N93989-36-0021	ASME SA 479 Type 316
Disc Collar	N93993-45-0037	ASME SA 479 Type 316
Disc	N93990-40-0019	ASME SA 479 Type 316
Spring Washers	N93991-35-0023	ASME SA 479 Type 316

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	NX4766-0013	ASTM A 313 Type 316
d. Bolting		
e. Other Parts such as Pilot Components		

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

Date 5-27- 19 88 Signed Crosby Valve & Gage Co. By [signature]
Manufacturer

Certificate of Authorization No. 1878 expires September 30, 1989

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Arkwright Mutual Insurance Company have inspected the equipment described in this Data Report on MAY 27 19 88 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

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

RIR# 88-0711

CROSBY CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

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

Q.C.-44C-1

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. VR Order No N85075 Contract Date 10/20/87 National Board No. --

2. Manufactured For Pennsylvania Power & Light Co. 2 No. 9th Street Allentown, PA 18101 Order No. 6-14904-1
Name and Address

3. Owner Pennsylvania Power & Light Co.
Name and Address

4. Location of Plant Susquehanna SES Berwick, PA

5. Valve Identification PSV-08624A1 Serial No. N67795-00-0008 Drawing No. DS-C-67795 Rev. A

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

6. Set Pressure (PSIG) 0.2 PSIG 125 F
Rated Temperature

Stamped Capacity 128 SCFM AIR @ 60°F @ 0.7 PSID % Overpressure -- Blowdown (PSIG) ---

Hydrostatic Test (PSIG) Inlet --- Complete Valve 255

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

Class 3 Edition 1971, Addenda Date Winter 1972, Case No. --

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification Including Type or Grade
a. Forgings		
Body	N94530-34-0017	ASME SA 105
Bonnet	N94531-32-0003	ASME SA 105
b. Bar Stock and Forgings		
Cage	N93989-36-0020	ASME SA 479 Type 316
Disc Collar	N93993-45-0043	ASME SA 479 Type 316
Disc	N93990-40-0020	ASME SA 479 Type 316
Spring Washers	N93991-35-0024	ASME SA 479 Type 316
Adjusting Bolt		
Spindle		

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RIR #88-0711

CROSBY

	Identification	Material Specification Including Type or Grade
c. Spring	NX4766-0012	ASTM A 313 Type 316
d. Bolting		
e. Other Parts such as Pilot Components		

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

Date 5-27- 19 88 Signed Crosby Valve & Gage Co. By

Manufacturer

Certificate of Authorization No. 1878 Expires September 30, 1989

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Arkwright Mutual Insurance Company have inspected the equipment described in this Data Report on MAY 27 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

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

Date MAY 25 19 88 Factory Mutual System

(Inspector) Commissions MA 1375 PRVC 3327

(National Board, State, Province and No.)

RECORD PACKAGE
PAGE ___ OF ___

88-0711-2992

CROSBY

CROSBY VALVE INC.
WRENTHAM, MA

Q.C.-257, Rev. B

REPAIR CERTIFICATION REPORT

CROSBY SALES ORDER NO.:	NV9000057
CUSTOMER ORDER NO.:	123812-C AMMENDMENT 003
VALVE SERIAL NUMBER:	N67795-00-0008
VALVE TAG NUMBER:	PSV0862A1

Description of Repair:

THE VALVE WAS VISUAL INSPECTED AND TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH CROSBY TEST PROCEDURE T-16306 REPORTS ATTACHED.
THE VALVE PASSED "AS RECEIVED "TESTING NO DISASSEMBLY OR FURTHER INSPECTION REQUIRED.

THE REFURBISHMENT WAS PROCESSED IN ACCORDANCE WITH THE PENNSYLVANIA POWER & LIGHT CO. PURCHASE ORDER 123812-C AMMENDMENT 003.

DAG 7/5/00
*Inspection and Testing only
Kenneth Webster Insp I 07-05-2000

Deborah Bernier
CROSBY VALVE QUALITY ASSURANCE

25 Nov 98
DATE

REPAIR AND REPLACEMENT TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

1. Work performed by Crosby Valve Inc., 43 Kendrick St., Wrentham, MA 02093
(Name and Address)
(Repair organization's P.O. No., Job No., etc.) NV9000057

2. Owner PENNSYLVANIA POWER & LIGHT CO.
(Name and Address)

3. Name and Identification of Nuclear Power Plant SUSQUEHANNA

4. Address of Nuclear Power Plant BERWICK ,PA 18603

5. Identification of System VACUUM RELIEF

6. a. Identification of component repaired or replacement component PSV08624A1
b. Name of manufacturer CROSBY VALVE INC.
c. Identifying Nos. N67795-00-0008 / — — — 1988
(Mfr's. Serial No.) (Nat'l. Bd. No.) (Jurisdiction No.) (Other) (Year Built)

7. Applicable Section(s) XI of ASME Code, 1989 Edition _____ Addenda Code Case –

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Design Pressure ☐ Pressure 0.2PSID psi

9. Description of work: REFURBISHMENT
(use of additional sheet(s) or sketch(es) is acceptable if properly identified)

10. Remarks:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and all design, material, and workmanship on this REPAIR (repair, replacement) conforms to the applicable section of the ASME Code.

Signed [signature] QA ENGINEER NOV. 25, 1998
(Authorized Representative of repair organization) (Title) (Date)

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 the valve described in this report on November 25, 1998 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code.

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

Date 11/25/98 Signed [signature] Commissions MA-1418 'N'
(Authorized Inspector) (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 1 Of 14

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

Unit: Common

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 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 (* SEE SHEETS 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 ASSEM (BOLTING)	DRAVO	E3549-35	N/A	HRC-3302-2	1985	REPLACED	YES
2) LARGE PIPE ASSEM (BOLTING)	PP&L	N/A	N/A	HRC-3302-2	1998	REPLACEMENT	NO
3) LARGE PIPE SUB-ASSEMBLY	DRAVO	E3549-36	N/A	HRC-3302-3	1985	REPLACED	YES
4) LARGE PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	HRC-3302-3	1998	REPLACEMENT	NO
5) ESW PUMP (TOP COLUMN)	BYRON JACKSON	741-S-1320	N/A	0P504A	1978	REPLACED	YES
6) ESW PUMP (TOP COLUMN)	BORG WARNER	197113	N/A	0P504A	1988	REPLACEMENT	YES
7) ESW PUMP (UPPER SERIES COLUMN)	BYRON JACKSON	741-S-1320	N/A	0P504A	1978	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 13 & 14

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date July 10, 19 2000

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 4-21-99 to 5-5-00, 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.

[signature] Commissions NB 7525 IBNA PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date July 10 19 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 2 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) ESW PUMP (UPPER SERIES COLUMN)	BORG WARNER	197112	N/A	0P504A	1988	REPLACEMENT	YES
9) ESW PUMP (SERIES COLUMN II)	BYRON JACKSON	741-S-1320	N/A	0P504A	1978	REPLACED	YES
10) ESW PUMP (SERIES COLUMN II)	BORG WARNER	197110	N/A	0P504A	1988	REPLACEMENT	YES
11) ESW PUMP (LOWER SERIES COLUMN)	BYRON JACKSON	741-S-1320	N/A	0P504A	1978	REPLACED	YES
12) ESW PUMP (LOWER SERIES COLUMN)	BORG WARNER	197111	N/A	0P504A	1988	REPLACEMENT	YES
13) ESW PUMP (BOTTOM COLUMN)	BYRON JACKSON	741-S-1320	N/A	0P504A	1978	REPLACED	YES
14) ESW PUMP (BOTTOM COLUMN)	BORG WARNER	197109	N/A	0P504A	1988	REPLACEMENT	YES
15) ESW PUMP (BOWL ASSEMBLY)	BYRON JACKSON	741-S-1320	N/A	0P504A	1978	REPLACED	YES
16) ESW PUMP (BOWL ASSEMBLY)	BORG WARNER	196981	N/A	0P504A	1988	REPLACEMENT	YES
17) ESW PUMP (BOLTING)	BYRON JACKSON	196981	N/A	0P504A	1978	REPLACED	YES
18) ESW PUMP (BOLTING)	PP&L	N/A	N/A	0P504A	1999	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 3 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) ESW PUMP (TOP COLUMN)	BYRON JACKSON	741-S-1321	N/A	0P504B	1978	REPLACED	YES
20) ESW PUMP (TOP COLUMN)	BYRON JACKSON	741-S-1320	N/A	0P504B	1978	REPLACEMENT	YES
21) ESW PUMP (UPPER SERIES COLUMN)	BYRON JACKSON	741-S-1321	N/A	0P504B	1978	REPLACED	YES
22) ESW PUMP (UPPER SERIES COLUMN)	BYRON JACKSON	741-S-1320	N/A	0P504B	1978	REPLACEMENT	YES
23) ESW PUMP (SERIES COLUMN II)	BYRON JACKSON	741-S-1321	N/A	0P504B *	1978	REPLACED	YES
24) ESW PUMP (SERIES COLUMN II)	BYRON JACKSON	741-S-1320	N/A	0P504B	1978	REPLACEMENT	YES
25) ESW PUMP (LOWER SERIES COLUMN)	BYRON JACKSON	741-S-1321	N/A	0P504B	1978	REPLACED	YES
26) ESW PUMP (LOWER SERIES COLUMN)	BYRON JACKSON	741-S-1320	N/A	0P504B	1978	REPLACEMENT	YES
27) ESW PUMP (BOTTOM COLUMN)	BYRON JACKSON	741-S-1321	N/A	0P504B	1978	REPLACED	YES
28) ESW PUMP (BOTTOM COLUMN)	BYRON JACKSON	741-S-1320	N/A	0P504B	1978	REPLACEMENT	YES
29) ESW PUMP (TOP CASE)	BYRON JACKSON	741-S-1321	N/A	0P504B	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 4 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) ESW PUMP (TOP CASE)	BYRON JACKSON	196783A	N/A	0P504B	1987	REPLACEMENT	YES
31) ESW PUMP (SUCTION BELL)	BYRON JACKSON	197168	N/A	0P504B	1987	REPLACED	YES
32) ESW PUMP (SUCTION BELL)	BYRON JACKSON	196787	N/A	0P504B	1987	REPLACEMENT	YES
33) ESW PUMP (BOLTING)	BYRON JACKSON	741-S-1320	N/A	0P504B	1986	REPLACED	YES
34) ESW PUMP (BOLTING)	PP&L	N/A	N/A	0P504B	1999	REPLACEMENT	NO
35) ESW PUMP (SUCTION BELL)	BYRON JACKSON	196786	N/A	OP504D	1987	REPLACED	YES
36) ESW PUMP (SUCTION BELL)	BYRON JACKSON	197168	N/A	OP504D	1987	REPLACEMENT	YES
37) ESW PUMP (BOLTING)	BYRON JACKSON	741-S-1323	N/A	OP504D	1978	REPLACED	YES
38) ESW PUMP (BOLTING)	PP&L	N/A	N/A	OP504D	1999	REPLACEMENT	NO
39) ESW PUMP (TOP COLUMN)	BYRON JACKSON	741-S-1323	N/A	0P504D	1978	REPLACED	YES
40) ESW PUMP (TOP COLUMN)	WELDING SERVICES	RS 339894	N/A	0P504D	1999	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 5 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) ESW PUMP (UPPER SERIES COLUMN)	BYRON JACKSON	741-S-1323	N/A	0P504D	1978	REPLACED	YES
42) ESW PUMP (UPPER SERIES COLUMN)	WELDING SERVICES	RS 339893	N/A	0P504D	1999	REPLACEMENT	YES
43) ESW PUMP (SERIES COLUMN II)	BYRON JACKSON	741-S-1323	N/A	0P504D	1978	REPLACED	YES
44) ESW PUMP (SERIES COLUMN II)	WELDING SERVICES	RS 339892	N/A	0P504D	1999	REPLACEMENT	YES
45) ESW PUMP (LOWER SERIES COLUMN)	BYRON JACKSON	741-S-1323	N/A	0P504D	1978	REPLACED	YES
46) ESW PUMP (LOWER SERIES COLUMN)	WELDING SERVICES	RS 339893A	N/A	0P504D	1999	REPLACEMENT	YES
47) ESW PUMP (BOTTOM COLUMN)	BYRON JACKSON	741-S-1323	N/A	0P504D	1978	REPLACED	YES
48) ESW PUMP (BOTTOM COLUMN)	WELDING SERVICES	RS 339891	N/A	0P504D	1999	REPLACEMENT	YES
49) ESW PUMP (TOP CASE)	BYRON JACKSON	741-S-1323	N/A	0P504D	1978	REPLACED	YES
50) ESW PUMP (TOP CASE)	BYRON JACKSON	741-S-1321 RS 63505	N/A	0P504D	1978	REPLACEMENT	YES
51) ESW PUMP (TOP CASE)	BYRON JACKSON	741-S-1321 RS 63505	N/A	0P504D	1978	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 6 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) ESW PUMP (SUCTION BELL)	BYRON JACKSON	197168	N/A	OP504D	1987	REPLACED	YES
53) ESW PUMP (SUCTION BELL)	BYRON JACKSON	196786	N/A	OP504D	1987	REPLACEMENT	YES
54) ESW PUMP (BOLTING)	BYRON JACKSON	741-S-1323	N/A	OP504D	1978	REPLACED	YES
55) ESW PUMP (BOLTING)	PP&L	N/A	N/A	OP504D	1999	REPLACEMENT	NO
56) ESW PUMP (TOP COLUMN)	BYRON JACKSON	741-S-1322	N/A	0P504C	1978	REPLACED	YES
57) ESW PUMP (TOP COLUMN)	WELDING SERVICES	RS 339984	N/A	0P504C	1999	REPLACEMENT	YES
58) ESW PUMP (UPPER SERIES COLUMN)	BYRON JACKSON	741-S-1322	N/A	0P504C	1978	REPLACED	YES
59) ESW PUMP (UPPER SERIES COLUMN)	WELDING SERVICES	RS 339983	N/A	0P504C	1999	REPLACEMENT	YES
60) ESW PUMP (SERIES COLUMN II)	BYRON JACKSON	741-S-1322	N/A	0P504C	1978	REPLACED	YES
61) ESW PUMP (SERIES COLUMN II)	WELDING SERVICES	RS 339981	N/A	0P504C	1999	REPLACEMENT	YES
62) ESW PUMP (LOWER SERIES COLUMN)	BYRON JACKSON	741-S-1322	N/A	0P504C	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 7 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) ESW PUMP (LOWER SERIES COLUMN)	WELDING SERVICES	RS 339982	N/A	0P504C	1999	REPLACEMENT	YES
64) ESW PUMP (BOTTOM COLUMN)	BYRON JACKSON	741-S-1322	N/A	0P504C	1978	REPLACED	YES
65) ESW PUMP (BOTTOM COLUMN)	WELDING SERVICES	RS 339980	N/A	0P504C	1999	REPLACEMENT	YES
66) ESW PUMP (TOP CASE)	BYRON JACKSON	741-S-1322	N/A	0P504C	1978	REPLACED	YES
67) ESW PUMP (TOP CASE)	WELDING SERVICES	RS 339899	N/A	0P504C	1999	REPLACEMENT	YES
68) ESW PUMP (SUCTION BELL)	BYRON JACKSON	196785	N/A	0P504C	1987	REPLACED	YES
69) ESW PUMP (SUCTION BELL)	BYRON JACKSON	197168	N/A	0P504C	1987	REPLACEMENT	YES
70) ESW PUMP (BOLTING)	BYRON JACKSON	741-S-1322	N/A	0P504C	1978	REPLACED	YES
71) ESW PUMP (BOLTING)	PP&L	N/A	N/A	0P504C	1999	REPLACEMENT	NO
72) LARGE PIPE FLOW ORFICE	BECHTEL	N/A	N/A	FO-01109B HRC-5-1	1982	REPLACED	YES
73) LARGE PIPE FLOW ORFICE	PP&L	N/A	N/A	FO-01109B HRC-5-1	1999	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 8 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) VALVE	YARWAY	A1120	N/A	1RVFT01109B	1977	REPLACED	YES
75) VALVE	YARWAY	9962	N/A	1RVFT01109B	1977	REPLACEMENT	YES
76) VALVE	YARWAY	A1098	N/A	2RVFT01109B	1977	REPLACED	YES
77) VALVE	YARWAY	B2220	N/A	2RVFT01109B	1980	REPLACEMENT	YES
78) SMALL PIPE ASSEMBLY	BECHTEL	N/A	N/A	SPHRC-5-1 *	1982	REPLACED	YES
79) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	SPHRC-5-1	2000	REPLACEMENT	NO
80) VALVE	ANDERSON GREENWOOD	N80919	N/A	FP-01124-C2-R2	1990	REPLACED	YES
81) VALVE	ANDERSON GREENWOOD	N80911	N/A	FP-01124-C2R2	1990	REPLACEMENT	YES
82) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-C2	1990	REPLACED	NO
83) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-C2	2000	REPLACEMENT	NO
84) VALVE	ANDERSON GREENWOOD	N80917	N/A	FP-01124-B1-R1	1990	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 9 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
85) VALVE	ANDERSON GREENWOOD	N80912	N/A	FP-01124-B2-R1	1990	REPLACED	YES
86) VALVE	ANDERSON GREENWOOD	N80913	N/A	FP-01124-B1-R1	1990	REPLACED	YES
87) VALVE	ANDERSON GREENWOOD	N80910	N/A	FP-01124-B2-R2	1990	REPLACED	YES
88) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-B1	1990	REPLACED	NO
89) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-B1	2000	REPLACEMENT	NO
90) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-B2	1990	REPLACED	NO
91) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-B2	2000	REPLACEMENT	NO
92) VALVE	ANDERSON GREENWOOD	N80915	N/A	FP-01124-A1-R1	1990	REPLACED	YES
93) VALVE	ANDERSON GREENWOOD	N80923	N/A	FP-01124-A2-R1	1990	REPLACED	YES
94) VALVE	ANDERSON GREENWOOD	N80922	N/A	FP-01124-A1-R1	1990	REPLACED	YES
95) VALVE	ANDERSON GREENWOOD	N80925	N/A	FP-01124-A2-R2	1990	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 10 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
96) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-A1	1990	REPLACED	NO
97) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-A1	2000	REPLACEMENT	NO
98) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-A2	1990	REPLACED	NO
99) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-A2	2000	REPLACEMENT	NO
100) VALVE	ANDERSON GREENWOOD	N80921	N/A	FP-01124-C1-R1	1990	REPLACED	YES
101) VALVE	ANDERSON GREENWOOD	N80918	N/A	FP-01124-C2-R1	1990	REPLACED	YES
102) VALVE	ANDERSON GREENWOOD	N80914	N/A	FP-01124-C1-R1	1990	REPLACED	YES
103) VALVE	ANDERSON GREENWOOD	N80911	N/A	FP-01124-C2-R2	1990	REPLACED	YES
104) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-C1	1990	REPLACED	NO
105) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-C1	2000	REPLACEMENT	NO
106) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-C2	1990	REPLACED	NO

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 11 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
107) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-C2	2000	REPLACEMENT	NO
108) VALVE	ANDERSON GREENWOOD	N80928	N/A	FP-01124-D1-R1	1990	REPLACED	YES
109) VALVE	ANDERSON GREENWOOD	N80924	N/A	FP-01124-D2-R1	1990	REPLACED	YES
110) VALVE	ANDERSON GREENWOOD	N80932	N/A	FP-01124-D1-R1	1990	REPLACED	YES
111) VALVE	ANDERSON GREENWOOD	N80926	N/A	FP-01124-D2-R2	1990	REPLACED	YES
112) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-D1	1990	REPLACED	NO
113) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-D1	2000	REPLACEMENT	NO
114) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-D2	1990	REPLACED	NO
115) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-D2	2000	REPLACEMENT	NO
116) VALVE	ANDERSON GREENWOOD	N80933	N/A	FP-01124-E1-R1	1990	REPLACED	YES
117) VALVE	ANDERSON GREENWOOD	N80934	N/A	FP-01124-E2-R1	1990	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 12 of 14

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 13 & 14)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
118) VALVE	ANDERSON GREENWOOD	N80930	N/A	FP-01124-E1-R1	1990	REPLACED	YES
119) VALVE	ANDERSON GREENWOOD	N80931	N/A	FP-01124-E2-R2	1990	REPLACED	YES
120) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-E1	1990	REPLACED	NO
121) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-E1	2000	REPLACEMENT	NO
122) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-E2	1990	REPLACED	NO
123) SMALL PIPE ASSEMBLY	PP&L	N/A	N/A	FP-01124-E2	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 13 of 14

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

Unit: COMMON

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 054A, 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 N416-1 (* SEE LIST BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ WORK ORDER	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-2	P73753 & S83622	6"-HRC-3302-2; REPLACED FLANGE STUDS & NUTS; REPLACED FLANGE	VT-2 PER SE-054-301 TEMP 77°F/ PRESS 107 PSIG	1971 ED WINTER 72 ADD
3-4	S83483 & S83621	10"-HRC-3302-3; REPLACED FLANGE AND PIPE	VT-2 PER SE-054-301 TEMP 77°F/ PRESS 107 PSIG	1971 ED WINTER 72 ADD
5-18	S84185 & S84190	OP504A; REPLACED ALL COLUMNS AND PUMP ASSEMBLY & ASSOCIATED BOLTING	VT-2 PER SE-054-301 TEMP 77°F/ PRESS 127 PSIG	ORIGINAL PUMP AND REPLACEMENT PUMP PARTS, 1971 ED WIN 71 ADD
19-34	S84191 & S84186	OP504B; REPLACED ALL COLUMNS, TOP CASE AND SUCTION BELL WITH ASSOCIATED BOLTING	VT-2 PER SE-054-301 TEMP 75°F/ PRESS 105 PSIG	ORIGINAL PUMP AND REPLACEMENT PUMP PARTS, 1971 ED WIN 72 ADD
35-38	S84188	OP504D; REPLACED SUCTION BELL AND ASSOCIATED BOLTING	VT-2 PER SE-054-301 TEMP 71°F/ PRESS 100 PSIG	ORIGINAL PUMP AND REPLACEMENT PUMP PARTS, 1971 ED WIN 72 ADD
39-55	S84192 & 202805	OP504D; REPLACED ALL COLUMNS, AND SUCTION BELL WITH ASSOCIATED BOLTING (REPLACEMENT TOP CASE REPAIRED BY FLOWSERVE AS DOCUMENTED ITEM # 51)	VT-2 PER SE-054-301 TEMP 41°F/ PRESS 105 PSIG	ORIGINAL PUMP AND REPLACEMENT PUMP PARTS, 1971 ED WIN 72 ADD
56-71	S84187 & S84189	OP504C; REPLACED ALL COLUMNS, TOP CASE AND SUCTION BELL WITH ASSOCIATED BOLTING	VT-2 PER SE-054-301 TEMP 40°F/ PRESS 106 PSIG	ORIGINAL PUMP AND REPLACEMENT PUMP PARTS, 1971 ED WIN 72 ADD
72-73	198393 & 198189	FO-01109B; REPLACED FLOW ORFICE	VT-2 PER SE-054-301 TEMP 33°F/ PRESS 96 PSIG	1971 ED WINTER 72 ADD
74-79	198189	1RVFT01109B & 2RVFT01109B REPLACED VALVES AND PIPE	NON VT-2 PER MI-PS-001	ORIGINAL AND REPLACEMENT VALVES, 1974 ED WIN 74 ADD
80-83	233800	FP-01124C2-R2, REPLACED VALVE AND ASSOCIATED PIPE	NON VT-2 PER MI-PS-001	ORIGINAL AND REPLACEMENT VALVES, 1983 ED SUM 85 ADD
84-91	238027	REMOVED VALVES AND ASSOCIATED PIPE, REPLACED WITH PIPE PLUGS	NON VT-2 PER MI-PS-001	ORIGINAL VALVE 1983 ED SUM 85 ADD.
95-99	237935	REMOVED VALVES AND ASSOCIATED PIPE, REPLACED WITH PIPE PLUGS	NON VT-2 PER MI-PS-001	VALVE 1983 ED SUM 85 ADD
100-107	237940	REMOVED VALVES AND ASSOCIATED PIPE, REPLACED WITH PIPE PLUGS	NON VT-2 PER MI-PS-001	VALVE 1983 ED SUM 85 ADD

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

1. Owner: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
2. Plant: Susquehanna Steam Electric Station (Name)
   PO Box 467, Berwick, PA 18603 (Address)
3. Work Performed by: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 14 of 14

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. Indentification of System: EMERGENCY SERVICE WATER SYSTEM 054A, 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 N416-1 (* SEE LIST BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ WORK ORDER	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
108-115	237941	REMOVED VALVES AND ASSOCIATED PIPE, REPLACED WITH PIPE PLUGS	NON VT-2 PER MI-PS-001	VALVE 1983 ED SUM 85 ADD
116-123	238005	REMOVED VALVES AND ASSOCIATED PIPE, REPLACED WITH PIPE PLUGS	NON VT-2 PER MI-PS-001	VALVE 1983 ED SUM 85 ADD

54417 mw-20/m

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC. PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058 (name and address of NPT Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT COMPANY TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 (name and address of purchaser)

3. Location of installation PENNSYLVANIA POWER & LIGHT COMPANY 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA 18603 (name and address)

4. Type 224122 REV.B (drawing no.) ** (mat'l. spec. no.) ** (tensile strength) N/A (CRN) 1988 (year built)

5. ASME Code, Section III: *1971 (edition) W'72 (addenda date) 3 (class) N/A (Code Case no.)

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

7. Remarks: B.W.I.P. JOB NUMBER- 871-W-4108 PART NAME - COLUMN, UPPER

*INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION W'80 ADDENDA.

**SEE CERTIFICATE HOLDER'S DATA REPORT SUPPLEMENTARY SHEET FORM N-2 PAGE 3 OF 3 ATTACHED.

8. Nom. thickness (in.) .500 Min. design thickness (in.) .430 Dia. OD (ft & in.) 1'9.50" Length overall (ft & in.) 1'11.94"

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)	197113	n/a
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
(12)		
(13)		
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(16)		
(17)		
(18)		
(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

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

No. 88-0181 RECORD PACKAGE PAGE 15 OF 150

10. Design pressure 175 psi. Temp. 104 °F. Hydro. test pressure 265PSI/60°MIN. (when applicable) at temp. °F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

(.2/86) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

8809021052

FORM N-2 (back)

Mfr. Serial No. 187113

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

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

Date 29 JAN 88 Name BORG-WARNER INDUSTRIAL PRODUCTS INC. (NPT Certificate Holder) Signed [signature] (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO.* of NORWOOD, MASS. have inspected these items described in this Data Report on 29 January 1988 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 1-29-88 Signed [signature] (Authorized Inspector) Commissions Calif-1408. PA-WC-2457 (Nat'l. Bd. (incl. endorsements) State or prov. and no.)

No. 88-0191 RECORD PACKAGE PAGE 16 OF 51

1109021052 3

MFG. SERIAL NO. 197113

FORM N-2 N OR NPT CERTIFICATE HOLDER'S DATA REPORT
SUPPLEMENTARY SHEET

1. Manufactured and Certified By BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058
   Name and Address of Certificate Holder

2. Manufactured For PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101
   Name and Address of Purchaser

3. Location of Installation: PENNYSLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA. 18603
   Name and Address

7. Remarks:

Job No.: 871-W-4108

Drawing No.: 224122 REV. B

Part Name: COLUMN, UPPER

Data Report/Item No.:

PART NAME	SIZE	QTY	SERIAL NO.	MAT'L TYPE	TENSILE STRENGTH
PIPE, SCH. 40	16"	1	196878	ASME SA-106 GR.B	60,000 PSI
FLANGE	21½" O/D X 1½" THK	2	196879-7 196879-8	ASME SA-516 GR.70	70,000 PSI

DATE: 29 JAN 88 NAME: BORG-WARNER INDUSTRIAL PRODUCTS INC. (Certificate Holder) SIGNED: (Representative)

Certificate of Authorization No. N-1131

Certificate of Authorization Expires JUNE 16, 1990

DATE: 1-29-88 SIGNED: Authorized Nuclear Inspector FACTORY MUTUAL SYSTEMS COMMISSIONS: Calif-1108, PA-WC-2457 National Board, State, Province and Number

No. 88-0181 RECORD PACKAGE PAGE 17 OF 150

MFG. SERIAL NO. 197110

FORM N-2 N OR NPT CERTIFICATE HOLDER'S DATA REPORT
SUPPLEMENTARY SHEET

1. Manufactured and Certified By BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058
   Name and Address of Certificate Holder

2. Manufactured For PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101
   Name and Address of Purchaser

3. Location of Installation: PENNSYLVAINA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA 18603
   Name and Address

7. Remarks:

Job No.: 871-W-4108

Drawing No.: 224123 REV.B

Part Name: COLUMN II, INTERMEDIATE

Data Report/Item No.:

PART NAME	SIZE	QTY.	SERIAL NO.	MAT'L TYPE	TENSILE STRENGTH
PIPE, SCH. 40	16"	1	197516	ASME SA-106 GR. B	60,000 PSI
FLANGE-21½" O/D X 1½" THK		1	196879-5	ASME SA-516 GR. 70	70,000 PSI
FLANGE-24 31/32" O/D X 1½" THK		1	196881	ASME SA-516 GR. 70	70,000 PSI
RIB-3/8" THK X 5½" WD X 5½" LG		4	196882-10 196882-11 196882-12 196882-13	ASME SA-516 GR. 70	70,000 PSI

DATE: 29 JAN 88 NAME: BORG-WARNER INDUSTRIAL PRODUCTS INC. (Certificate Holder) SIGNED: (Representative)

Certificate of Authorization No. N-1131

Certificate of Authorization Expires JUNE 16, 1990

DATE: 1-29-88 SIGNED: Contractor Authorized Nuclear Inspector FACTORY MUTUAL SYSTEMS COMMISSIONS: Calif 1408, PA-WC-2457 National Board, State, Province and Number

No. 88-081
RECORD PACKAGE
PAGE 1 OF 150

54416 MW-20/M

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE, VERNON, CALIF. 90058 (name and address of NPT Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 (name and address of purchaser)

3. Location of installation PENNSYLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA. 18603 (name and address)

4. Type 224124 REV.B (drawing no.) ** (mat'l. spec. no.) ** (tensile strength) N/A (CRN) 1988 (year built)

5. ASME Code, Section III: *1971 (edition) W'72 (addenda date) 3 (class) N/A (Code Case no.)

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

7. Remarks: B.W.I.P. JOB NUMBER 871-W-4108 PART NAME- COLUMN 1, INTERMEDIATE

*INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION W'80 ADDENDA.

**SEE CERTIFICATE HOLDER'S DATA REPORT SUPPLEMENTARY SHEET FORM N-2 PAGE 3 OF 3 ATTACHED.

8. Nom. thickness (in.) .500 Min. design thickness (in.) .430 Dia. OD (ft & in.) 1'9.50" Length overall (ft & in.) 5'.19"

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1)	197112	N/A	(26)		
(2)			(27)		
(3)			(28)		
(4)			(29)		
(5)			(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)			(34)		
(10)			(35)		
(11)			(36)		
(12)			(37)		
(13)			(38)		
(14)			(39)		
(15)			(40)		
(16)			(41)		
(17)			(42)		
(18)			(43)		
(19)			(44)		
(20)			(45)		
(21)			(46)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

No. 88-0181 RECORD PACKAGE PAGE 62 OF 150

10. Design pressure 175 psi. Temp. 104 °F. Hydro. test pressure 265 PSI/60 MIN. (when applicable) at temp. °F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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. 197112

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that (DESCRIBE) THIS - COLUMN 1, INTERMEDIATE conforms to the rules of construction of the ASME Code, Section III.

NPT Certificate of Authorization No. N-1131 Expires JUNE 18, 1990

Date 29 JAN 88 Name BORG-WARNER INDUSTRIAL PRODUCTS INC. (NPT Certificate Holder) Signed (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. * of NORWOOD, MASS. have inspected these items described in this Data Report on 29 January 1988 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 1-29-88 Signed (Authorized Inspector) Commissions Calif-1408, PA-WC-2457 (Nat'l. Bd. (incl. endors. ments) state or prov. and no.)

No. 88-0181 RECORD PACKAGE PAGE 13 OF 150

MFG. SERIAL NO. 19-12

FORM N-2 N OR NPT CERTIFICATE HOLDER'S DATA REPORT
SUPPLEMENTARY SHEET

1. Manufactured and Certified By BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV. LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058
   Name and Address of Certificate Holder

2. Manufactured For PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101
   Name and Address of Purchaser

3. Location of Installation: PENNSYLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA. 18603
   Name and Address

7. Remarks:

Job No.: 971.W.4108

Drawing No.: 224124 REV B

Part Name: COLUMN 1, INTERMEDIATE

Data Report/Item No.:

PART NAME	SIZE	QTY	SERIAL NO.	MAT'L TYPE	TENSILE STRENGTH
PIPE, SCH. 40	16	1	196877-2	ASME SA-106 GR. B	60,000 PSI
FLANGE	21½" O/D X 1½" THK	2	196879-2 196879-4	ASME SA-516 GR. 70	70,000 PSI
RIB-3/8"THK X 5½" WD X 5½"LG		4	196882-3 196882-4 196882-5 196882-1,2	ASME SA-516 GR. 70	70,000 PSI

DATE: 29 JAN 88 NAME: BORG-WARNER INDUSTRIAL PRODUCTS INC. (Certificate Holder) SIGNED: (Representative)

Certificate of Authorization No. N-1131

Certificate of Authorization Expires JUNE 16, 1990

DATE: 1-29-88 SIGNED: Authorized Nuclear Inspector, FACTORY MUTUAL SYSTEM COMMISSIONS: Calif-408, PA-WC-2457. National Board, State, Province and Number

No. XX-0181
RECORD PACKAGE
PAGE 14 OF 150

54415 MW. L/M

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058 (name and address of NPT Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA 18101 (name and address of purchaser)
3. Location of installation PENNSYLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA 18603 (name and address)
4. Type 224123 REV. B (drawing no.) ** (mat'l. spec. no.) ** (tensile strength) N/A (CRN) 1988 (year built)
5. ASME Code, Section III: *1971 (edition) W'72 (addenda date) 3 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: B.W.I.P. JOB NO- 871-W-4108 PART NAME - COLUMN II, INTERMEDIATE

* INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION W'80 ADDENDA.

**SEE CERTIFICATE HOLDER'S DATA REPORT SUPPLEMENTARY SHEET FORM N-2 PAGE 3 OF 3 ATTACHED.

8. Nom. thickness (in.) .500 Min. design thickness (in.) .430 Dia. OD (ft & in.) 2' 97" Length overall (ft & in.) 5' 19"
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)	197110	N/A
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
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(17)		
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(19)		
(20)		
(21)		
(22)		
(23)		
(24)		
(25)		

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

No. 18-0181
RECORD PACKAGE
PAGE 10 OF 150

10. Design pressure 175 psi. Temp. 104 °F. Hydro. test pressure 265 PSI/60 MIN (when applicable) at temp. °F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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. 197110

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

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

Date 29 JAN 88 Name BORG-WARNER INDUSTRIAL PRODUCTS INC. (NPT Certificate Holder) Signed (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. * of NORWOOD, MASS. have inspected these items described in this Data Report on 29 January 1988, 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 describ in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage loss of any kind arising from or connected with this inspection. *FACTORY MUTUAL SYSTEM

Date 1-29-88 Signed (authorized inspector) Commissions Calif-1408PA-WC-2457 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

54416 MW-40/M

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058 (name and address of NPT Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 (name and address of purchaser)
3. Location of installation PENNSYLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA. 18603 (name and address)
4. Type 224124 REV. B (drawing no.) ** (mat'l. spec. no.) ** (tensile strength) N/A (CRN) 1988 (year built)
5. ASME Code, Section III: * 1971 (edition) W'72 (addenda date) 3 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: B.W.I.P. JOB NUMBER- 871-W-4108 PART NAME-COLUMN 1, INTERMEDIATE

*INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION W'80 ADDENDA.

**SEE CERTIFICATE HOLDER'S DATA REPORT SUPPLEMENTARY SHEET FORM N-2 PAGE 3 OF 3 ATTACHED.

8. Nom. thickness (in.) .500 Min. design thickness (in.) .430 Dia OD (ft & in.) 1'9.50" Length overall (ft & in.) 5'.19"
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)	197111	N/A
(2)		
(3)		
(4)		
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(24)		
(25)		

	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
(35)		
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No. 88-0181
RECORD PACKAGE
PAGE 9 OF 150

10. Design pressure 178 psi. Temp. 104 °F. Hydro. test pressure 265 PSI/60 MIN. (when applicable) at temp. °F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

8809021052

FORM N-2 (back)

Mfr. Serial No. 197111

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

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

Date 29 JAN 88 Name BOSG (NPT Certificate Holder) INDUSTRIAL PRODUCTS INC. Signed (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO.* of NORWOOD, MASS have inspected these items described in this Data Report on 29 January 1988, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 1-29-88 Signed (Authorized Inspector) Commission Calif-1408, PA-WC-2457 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

No. 88-081 RECORD PACKAGE PAGE 10 OF 50

MFG. SERIAL NO. 197111

FORM N-2 N OR NPT CERTIFICATE HOLDER'S DATA REPORT
SUPPLEMENTARY SHEET

1. Manufactured and Certified By BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058
   Name and Address of Certificate Holder

2. Manufactured For PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101
   Name and Address of Purchaser

3. Location of Installation: PENNSYLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA. 18603
   Name and Address

7. Remarks:

Job No.: 871-W-4108

Drawing No.: 224124 REV. B

Part Name: COLUMN 1, INTERMEDIATE

Data Report/Item No.:

PART NAME	SIZE	QTY	SERIAL NO.	MAT'L TYPE	TENSILE STRENGTH
PIPE, SCH. 40	16"	1	196877-1	ASME SA-106 GR. B	60,000 PSI
FLANGE	21½" O/D X 1½" THK	2	196879-1 196879-3	ASME SA-516 GR. 70	70,000 PSI
RIB-3/8"THK X 5½" WD X 5½" LG.		4	196882-7 196882-8 196882-9 196882-16	ASME SA-516 GR. 70	70,000 PSI

DATE: 29 JAN 88 NAME: BORG-WARNER INDUSTRIAL PRODUCTS INC. (Certificate Holder) SIGNED: (Representative)

Certificate of Authorization No. N-1131

Certificate of Authorization Expires JUNE 16, 1990

DATE: 1-29-88. SIGNED: Authorized Nuclear Inspector FACTORY MUTUAL SYSTEMS COMMISSIONS: Calif-1408, PA-WC-2457 National Board, State, Province and Number

No. 88-0181
RECORD PACKAGE
PAGE 11 OF 150

54414 MW-20/M

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058 (name and address of NPT Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA 18101 (name and address of purchaser)

3. Location of installation PENNSYLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA. 18603 (name and address)

4. Type 224125 REV. B (drawing no.) ** (mat'l. spec. no.) ** (tensile strength) N/A (CRN) 1988 (year built)

5. ASME Code, Section III: *1971 (edition) W'72 (addenda date) 3 (class) N/A (Code Case no.)

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

7. Remarks: B.W.I.P. JOB NO.- 871-W-4108 PART NAME- COLUMN, LOWER

* INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION W'80 ADDENDA.

**SEE CERTIFICATE HOLDER'S DATA REPORT SUPPLEMENTARY SHEET FORM N-2 PAGE 3 OF 3 ATTACHED.

8. Nom. thickness (in.) .500 Min. design thickness (in.) .430 Dia. ID (ft & in.) 1'11.97" Length overall (ft & in.) 5'.19"

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)	197109	N/A
(2)		
(3)		
(4)		
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	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
(34)		
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No. 88-0181 RECORD PACKAGE PAGE 10 OF 150

10. Design pressure 175 psi. Temp. 104 °F. Hydro. test pressure 265 PSI/60 MIN. at temp. °F (when applicable)

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

0 0 9 0 2 5 3 0

MFG. SERIAL NO. 197109

FORM N-2 N OR NPT CERTIFICATE HOLDER'S DATA REPORT
SUPPLEMENTARY SHEET

1. Manufactured and Certified By BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV. LOS ANGELES OPERATIONS 2300 EAST VERNON, CALIF. 90058
   Name and Address of Certificate Holder

2. Manufactured For PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101
   Name and Address of Purchaser

3. Location of Installation: PENNSYLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA. 18603
   Name and Address

7. Remarks:

Job No.: 871-W-4108

Drawing No.: 224125 REV. B

Part Name: COLUMN, LOWER

Data Report/Item No.:

PART NAME	SIZE	QTY.	SERIAL NO.	MAT'L TYPE	TENSILE STRENGTH
PIPE SCH 40	16"	1	196876	ASME SA-106 GR. B	60,000 PSI
CONE	16" OD X 14½" OD	1	197120	ASME SA-516 GR. 70	70,000 PSI
FLANGE	-21½" OD X 1½" THK	1	196872-6	ASME SA-516 GR. 70	70,000 PSI
FLANGE	-23-31/32" X 1½" THK	1	196880	ASME SA-516 GR. 70	70,000 PSI
RIB 3/8" THK 5½" WD X 5½" LG		4	196882-1 196882-2 196882-3 196882-12	ASME SA-516 GR. 70	70,000 PSI

DATE: 29 JAN 88 NAME: BORG-WARNER INDUSTRIAL PRODUCTS INC. (Certificate Holder) SIGNED: (Representative)

Certificate of Authorization No. N-1131

Certificate of Authorization Expires JUNE 16, 1990

No. 88-0181 RECORD PACKAGE PAGE 20 OF 50

DATE: 1-29-88 SIGNED: Authorized Nuclear Inspector FACTORY MUTUAL SYSTEM

COMMISSIONS: Calif-1408, PA-WC-2457. National Board, State, Province and Number

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 3

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2100 EAST VERNON AVE., VERNON, CALIF. 90058 (name and address of NPT Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN PA 18101 (name and address of purchaser)
3. Location of installation PENNSYLVANIA POWER & LIGHT CO. 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA 18603 (name and address)
4. Ty. 1E-3895 REV A (drawing no.) SA-216 GR WCB (mat'l. spec. no.) 70,000 PSI (tensile strength) N/A (CNI) 1988 (year built)
5. ASME Code, Section III: 1971* (edition) W'72 (addenda date) 3 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: B.W.I.P. JOB NO. 871.W.4108 PART NAME 24" BDF VCT BOWL ASSEMBLY

* INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION W'80 ADDENDA.

** SEE CERTIFICATE HOLDERS DATA REPORT SUPPLEMENTARY SHEET FORM N-2 PAGE 3 OF 3 ATTACHED.

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1)	196981	N/A	(26)		
(2)			(27)		
(3)			(28)		
(4)			(29)		
(5)			(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)			(34)		
(10)			(35)		
(11)			(36)		
(12)			(37)		
(13)			(38)		
(14)			(39)		
(15)			(40)		
(16)			(41)		
(17)			(42)		
(18)			(43)		
(19)			(44)		
(20)			(45)		
(21)			(46)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

No. 88-0310
RECORD PACKAGE
PAGE 5 OF 48

10. Design pressure 175 psi. Temp. 104 °F. Hydro. test pressure 265 PSI/60 MIN. (when applicable) at temp. °F

*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.

8 3 0 2 0 9 0 2 1

FORM N-2 N OR NPT CERTIFICATE HOLDER'S DATA REPORT
SUPPLEMENTARY SHEET

1. Manufactured and Certified By BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058
   Name and Address of Certificate Holder

2. Manufactured For PENNSYLVANIA POWER & LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101
   Name and Address of Purchaser

3. Location of Installation: PENNSYLVANIA POWER & LIGHT CO. 5 MI. NE OF BERWICK ON US RT 11, BERWICK, PA 18603
   Name and Address

7. Remarks:

   Job No.: 871-W-4108

   Drawing No.: 1E-3895 REV. A

   Part Name: 24 BXF VCT BOWL ASSY.

Data Report/Item No.:

PART NAME	DWG. NO.	QTY.	SERIAL NO.	NOM. THICKNESS (IN)	MIN. DESIGN THICKNESS (IN)
TOP CASE	313319 REV.B	1	196784	.562	.500
SUCTION BELL	L101815 REV.C	1	196788	.750	.615

DATE: 29 FEB 88 NAME: BORG-WARNER INDUSTRIAL PRODUCTS INC. (Certificate Holder) SIGNED: (Representative)

Certificate of Authorization No. N-1131

Certificate of Authorization Expires JUNE 16, 1990

DATE: 2-29-88 SIGNED: Authorized Nuclear Inspector FACTORY MUTUAL SYSTEM COMMISSIONS: Calif.-1408, PA-WC-2457. National Board, State, Province and Number

No. 88-0310
RECORD PACKAGE
PAGE 7 OF 48

30902 4837

Byron Jackson Pump Division
BORG-WARNER CORPORATION
P.O. BOX 2017 TERMINAL ANNEX, LOS ANGELES, CALIFORNIA 90054 • 213/507-6171

Customer: PENNSYLVANIA POWER & LIGHT CO.
Address:

Date 18 FEB 88
Subject BOWL ASSY.
Contract No. 7-13664-1
Byron Jackson Job No/s: 871-W-4108

Ref. Drg. No.

Gentlemen:
We are transmitting herewith data as listed below, verifying integrity of product

ROUTE CARD NUMBER	ITEM NO.	PART NAME	DRAWING NO.	MATERIAL	HEAT NO.	CHEM	MECH	HT	BALANCE	COMPL.	PT	MT	UT	HYD	MIN. WALL	DECM	WGRD
196981	BOWL ASSEMBLY 1E-3815 P.P. & L CATALOG		NO. 55134											X			
	CONSISTING OF THE FOLLOWING:																
196784	076	TOP CASE	313319	SA-216 GR. WCB	C2 2110187	X	X	X				X			X		
196788	086	SUCTION BELL	L101815	" "	C3 2115187	X	X	X				X			X		
197152	039	IMPELLER LINER	L101816	A-743 GR. CF 10S MNN	C3 362687	X	X										
196797	176	IMPELLER	223606	B-148 AL. 958	88B091	X	X		X								
196798	167	PUMP SHAFT	223607	A-479 TP. 410 CL.2	J3190	X	X				X		X				
196799	676.1	KEY	5/8"X 4½"	A-582 TP. 416 COND.T						X							
196800	676	KEY	5/8"X3-7/16"	" " "	A15525					X							
196801	---	CASE STUD	3/4"-10X3-3/4"	SA-193 GR. B7	EQR 681924	X	X										
196802	---	HEX NUT	3/4"- 10	SA-194 GR. 7	565288 "CGB"	X	X										

Data Submittal

No. 88-0310
RECORD PACKAGE
PAGE 4 OF 44

Yours very truly,

Quality Control Department
Byron Jackson Pump Division

By Donna Eads
Documentation

Sheet 1 of 1

P 949 A 7/70

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC. PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE. VERNON CALIF. 90058 (name and address of certificate holder)

2. Manufactured for PENNSYLVANIA POWER AND LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 (name and address of purchaser)

3. Location of installation PENNSYLVANIA POWER AND LIGHT CO. 3 MI. NE. OF BERWICK ON US RT. 11, BERWICK, PA. 18603 (name and address)

4. Type 313319 REV. D (drawing no.) SA-216 GR. WCB (mat'l. spec. no.) 70,000 PSI (tensile strength) N/A (CRN) 1987 (year built)

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

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

7. Remarks: B.W.I.P. JOB NUMBER- 871-W-4108 PART NAME- TOP CASE

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

8. Nom. thickness (in.) .3625 Min. design thickness (in.) .500 Dia. OD (ft. & in.) 1'11.50" Length overall (ft. & in.) 1'6.68"

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 196783-A	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 175 psi Temp. 104 °F. Hydro. test pressure 265PSI/60°MIN (when applicable) at temp. °F.

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ X 1, (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.

(6/85)-1 This form (800040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017.

FORM N-2 (back)

Mfr. Serial No. 196783-A

CERTIFICATE OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

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

Date 2 Dec 1987. Name BORG-WARNER INDUSTRIAL PRODUCTS INC. (NPT Certificate Holder) Signed (Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS.CO. * of NORWOOD, MASS. have inspected these items described in this data report on 2 December 1987 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 12/2/87 Signed (Authorized Inspector) Commissions Calif-1408, PA-WC-2457 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by BORG WARNER INDUSTRIAL PRODUCTS INC. PUMP DIV. LOS ANGELES OPERATIONS 2300 EAST VERNON AVE. VERNON CALIF. 90058 (name and address of certificate holder)
2. Manufactured for PENNSYLVANIA POWER AND LIGHT CO. TWO NORTH NINTH STREET, ALLENTOWN, PA 18101 (name and address of purchaser)
3. Location of installation PENNSYLVANIA POWER AND LIGHT CO. 5 MI. NE. OF BERWICK ON US RT 11, BERWICK, PA 18603 (name and address)
4. Type L101815 REV.C (drawing no.) SA-216 GR. WCB (mat'l. spec. no.) 70,000 PSI (tensile strength) N/A (CRN) 1987 (year built)
5. ASME Code, Section III: * 1971 (edition) WINTER 1972 (addenda) 3 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (No.) Revision N/A Date N/A
7. Remarks: B.W.I.P. JOB NUMBER 871-W-4108 PART NAME SUCTION BELL

* INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION

WINTER 1980 ADDENDA.

8. Nom. thickness (in.) .750 Min. design thickness (in.) .615 Dia OD (ft. & in.) 1'10.75" Length overall (ft. & in.) 1'1.75"
9. When applicable, Certificate Holders' data reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 196787	N/A	(26)	
(2) 196785	N/A	(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
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(23)		(48)	
(24)		(49)	
(25)		(50)	

No. 87-1195
RECORD PACKAGE
PAGE 2 OF 2

10. Design pressure 175 psi Temp. 104 °F. Hydro. test pressure 265 PSI / 60 MIN. (when applicable) at temp. °F.

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ X 1, (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.

8 9 | FORM N-2 (back) | 5 | 7

196787

Mfr. Serial No. 196787

CERTIFICATE OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

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

Date 5 Sept 1987 Name BORG-WARNER INDUSTRIAL PRODUCTS INC. (NPT Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the state or province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of NORWOOD, MASS. 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.

9/5/87 Signed [signature] (Authorized Inspector) Commissions Pennsylvania NC 2440 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

No. 87-1195
RECORD PACKAGE
PAGE 1 OF 23

8 9 1 2 1 1 2 1 5 9 5

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by BORG-WARNER INDUSTRIAL PRODUCTS INC., PUMP DIV., LOS ANGELES OPERATIONS 2300 EAST VERNON AVE., VERNON, CALIF. 90058 (name and address of NPT Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER AND LIGHT COMPANY TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 (name and address of purchaser)
3. Location of installation PENNSYLVANIA POWER AND LIGHT COMPANY 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA 18603 (name and address)
4. Type L101815 REV.C (drawing no.) SA-216 GR. WCB (mat'l. spec. no.) 70,000 PSI (tensile strength) N/A (CRN) 1987 (year built)
5. ASME Code, Section III: *1971 (edition) W'72 (addenda date) 3 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: B.W.I.P. JOB NUMBER - 871-W-4108 PART NAME - SUCTION BELL

*INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION W'80 ADDENDA.

8. Nom. thickness (in.) .750 Min. design thickness (in.) .615 Dia. OD (ft & in.) 1'10.75" Length overall (ft & in.) 1'1.75"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 197168	N/A	(26)	
(2)		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

NO. 27235 RECORD PACKAGE PAGE 4 OF 7

DOCUMENT REVIEWED BY PRI/NOA

10. Design pressure 175 psi. Temp. 104 °F. Hydro. test pressure 265PSI/60° MIN. (when applicable) at temp. °F

*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.

8 9 1 2 1 1 2 1 5 9 7

FORM N-2 (back)

Mfr. Serial No. 197168

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this [redacted] SUCTION BELL conforms to the rules of construction of the ASME Code, Section III.

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

Date 30 Nov. 1987 Name BORG-WARNER INDUSTRIAL PRODUCTS INC. (NPT Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. FACTORY MUTUAL SYSTEM of NORWOOD, MASS. have inspected these items described in this Data Report on 30 November, 1987, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 11/30/87 Signed [signature] (Authorized Inspector) Commissions Calif 1405, PA-WC-2457 (Nat'l Bd. (incl. endorsements) state or prov. and no.)

DOCUMENT REVIEWED BY [signature] PP&L/NQA

87-4135 5-7

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

1. Manufactured and certified by Welding Services Inc. 2225 Skyland Court Norcross, Ga. 30071 (name and address of NPT Certificate Holder)
2. Manufactured for Flowserve RED Corp. 2300 E. Vernon Ave. Vernon, Ca. 90058 (name and address of Purchaser)
3. Location of Installation Susquehanna 11N, 5 Miles North Berwick, Pa. 18635 (name and address)
4. Type: See Remarks (drawing no.) | See Remarks (mat'l. spec. no.) | 72 ksi (tensile strength) | N/A (CRN) | 1999 (year built)
5. ASME Code, Section III, Division 1: 1971 (edition) | Winter 1972 (addenda date) | 3 (class) | N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision _____ Date _____
7. Remarks: .Drawings: Byron Jackson Drawings: 224122 Rev.B, 224123 Rev.B, 224124 Rev.B, 224125 Rev.B

   Material: SA106 Gr.B, SA516 Gr.70
8. Nom. Thickness (in.) .500 Min. design thickness (in.) .430 Dia. ID (ft & in.) 16" Length overall (ft & in.) 60"&23.75"
9. When applicable, Certificate Holder's Data Reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(1)	39060-224122 (RS339894)	
(2)	39060-224123 (RS339892)	
(3)	39060-224124 (RS339893)	
(4)	39060-224124A (RS339893A)	
(5)	39060-224125 (RS339891)	
(6)		
(7)		
(8)		
(9)		
(10)		
(11)		
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(22)		
(23)		
(24)		
(25)		

	Part or Appurtenance Serial Number	National Board No. In Numerical Order
(26)		
(27)		
(28)		
(29)		
(30)		
(31)		
(32)		
(33)		
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(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 175 psi. Temp. 104°F °F Hydro. test pressure 265 psi (when applicable) at temp 55°F

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.

(12/88)

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 – Page 2 of 2)

Certificate Holder's Serial Nos. 39080-224122 through 39080-224125

CERTIFICATION OF DESIGN

Design Specifications certified by Designed by Others (when applicable) P.E. State _____ Reg. No. _____

Design Report* certified by _____ (when applicable) P.E. State _____ Reg. No. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Pump Columns conform(s) to the rules for construction of the ASME Code, Section III, Division 1, NPT Certificate of Authorization No. N-2873 Expires November 13, 2001

Date 10/28/1999 Name Welding Services Inc. (NPT Certificate Holder) Signed Far T. Forman (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 Georgia and employed by Arkwright Mutual Insurance Company of Waltham, MA have inspected these items described in this Data Report on OCT. 30, 1999 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with 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 10/30/1999 Signed _____ (Authorized Inspector) Commission 168592 (A, N, I) Ga. 27 (Nat'l. Bd. (incl. Endorsements) and state or prov. and no.)

SUPPLEMENTAL DATA REPORT FOR NUCLEAR COMPONENTS OR PARTS

1. Work performed by Flowserve Corporation, Rotating Equipment Division, Nuclear Products Operations, 990P9159/RC339357 (Shop Order No.)

2. Owner PP&L, Inc., 2 North Ninth Street, Allentown, PA 18101

3. Name of Nuclear Power Plant Susquehanna Steam Electric Station

4. Address of Nuclear Power Plant 6 Miles NE of Berwick on Rte 11, P.O. Box 467, Berwick, PA 18603

5. a. Identification of Component Repaired or Replacement Component Pump Top Case
   b. Name of Manufacturer (If different from Line 1)
   c. Identifying Nos. 741S1321, RS63505 N/A N/A ~~Unknown~~ 1978 10/19/99 10/19/99
   (Mfr's Serial No.) (Nat'l Bd. No.) (Other) (Year Built)

6. Application Edition of Section III of ASME Code 19 71 Addenda Winter 1972 Code Case N/A

7. Description of Work Verified minimum wall. Performed minor weld repair on vanes and locating fit in accordance with ASME Section III, 1974 Edition without Addenda. (Post weld heat treatment not required). Restored specified configuration by machining and shaping. Hydrotest at 265 PSI for 30 mins.
   (Use of additional sheet(s) or sketch(es) is acceptable if properly identified)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair or replacement conforms to Section III of the ASME Code. Signed R. D. Ham (Authorized Representative of Repair Organization) Quality Engineer (Title)

_____, ____. Our ASME Certificate of Authorization No. N1131 to use the NPT symbol expires 10 June 2002.

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors employed by *Arkwright Mutual Insurance Co. of Norwood, Mass. have inspected the repair or replacement described in this Report on 9/1/99, ____ and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with Section III of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. *Factory Mutual Insurance Company

Date 10/15/99 (Inspector) Commissions CA 1574 "N" (State or Providence, Nat'l Board)

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

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

Not To Exceed One Day's Production

1. Manufactured and certified by ~~BORG-WARNER INDUSTRIAL PRODUCTS INC. PUMP DIV., LOS ANGELES OPERATIONS~~ 2300 EAST VERNON AVE., VERNON, CALIF. 90058
   (name and address of NPT Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER AND LIGHT COMPANY TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101
   (name and address of purchaser)
3. Location of installation PENNSYLVANIA POWER AND LIGHT COMPANY 5 MI NE OF BERWICK ON US RT 11, BERWICK, PA 18603
   (name and address)
4. Type L101815 REV.C (drawing no.) SA-216 GR. WCB (mat'l. spec. no.) 70,000 PSI (tensile strength) N/A (CRN) 1987 (year built)
5. ASME Code, Section III: *1971 (edition) W'72 (addenda date) 3 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: B.W.I.P. JOB NUMBER - 871-W-4108 PART NAME - SUCTION BELL

   * INCLUDING MATERIAL IN ACCORDANCE WITH ASME SECTION III 1980 EDITION W'80 ADDENDA.

8. Nom. thickness (in.) .750 Min. design thickness (in.) .615 Dia ~~OD~~ OD (ft & in.) 1'10.75" Length overall (ft & in.) 1'1.75"
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. in Numerical Order		Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1)	196786	N/A	(26)		
(2)			(27)		
(3)			(28)		
(4)			(29)		
(5)			(30)		
(6)			(31)		
(7)			(32)		
(8)			(33)		
(9)			(34)		
(10)			(35)		
(11)			(36)		
(12)			(37)		
(13)			(38)		
(14)			(39)		
(15)			(40)		
(16)			(41)		
(17)			(42)		
(18)			(43)		
(19)			(44)		
(20)			(45)		
(21)			(46)		
(22)			(47)		
(23)			(48)		
(24)			(49)		
(25)			(50)		

10. Design pressure 175 psi. Temp. 104 °F. Hydro. test pressure 265PSI/60° MIN. (when applicable) at temp. °F

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (back)

Mfr. Serial No. 196786

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

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

Date 30 Sept 1987 Name BORG-WARNER INDUSTRIAL PRODUCTS INC. (NPT Certificate Holder) Signed (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS.CO. FACTORY MUTUAL SYSTEM of NORWOOD, MASS. have inspected these items described in this Data Report on 30 September, 1987 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

Date 9/30/87 Signed (Authorized Inspector) Commissions Calif.-1408, PA-WC-2457 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

1. Manufactured and certified by Welding Services Inc., 2225 Skyland Court, Norcross, GA 30071 (name and address of NPT Certificate Holder)
2. Manufactured for Flowserve RED Corporation, 2300 E. Vernon Ave. Vernon, California 90058 (name and address of Purchaser)
3. Location of installation Susquehanna Generating Station, 11N, 5 Miles North, Berwick, Pennsylvania 18636 (name and address)
4. Type: See Remarks (drawing no.) | See Remarks (mat'l. spec. no.) | 72 KSI (tensile strength) | N/A (CRN) | 1999 (year built)
5. ASME Code, Section III, Division 1: 1971 (edition) | Winter 1972 (addenda date) | 3 (class) | N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: Drawings: 224122 Rev.C, 224123 Rev. C, 224124 Rev. C, 224125 Rev. C.
   Material: SA 106 Gr. B, SA516 Gr. 70
8. Nom. Thickness (in.) .500 Min. design thickness (in.) .430 Dia. ID (ft & in.) 16' Length overall (ft & in.) 60'&23.7
9. When applicable, Certificate Holder's 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) 39068-224122 RS339984		(26)	
(2) 39068-224123 RS339981		(27)	
(3) 39068-224124 RS339982		(28)	
(4) 39068-224124a RS339983		(29)	
(5) 39068-224125 RS339980		(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 175 psi. Temp. 104 °F Hydro. test pressure 265 (when applicable) at temp. °F

*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.

(12/88) This form (E00040) may be obtained from the Order Dept., ASME 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.
Reprint (7/91)

Certificate Holder's Serial Nos. 39068-224122 through 39068-224125

CERTIFICATION OF DESIGN

Design Specifications certified by Designed by Others (when applicable) P.E. State _____ Reg. No. _____

Design Report* certified by _____ (when applicable) P.E. State _____ Reg. No. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) conform(s) to the rules for construction of the ASME Code, Section III, Division 1. Pump Columns

NPT Certificate of Authorization No. N-2873 Expires November 13, 2001

Date 11/11/99 Name Welding Services Inc. (NPT Certificate Holder) Signed A. B. Lowerre 11/11/99 (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 Georgia and employed by Arkwright Mutual Insurance Company of Waltham, MA have inspected these items described in this Data Report on November 11, 1999 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with 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 11/11/99 Signed _____ (Authorized Inspector) Commissions NB8592 (A,N,I) Ga. 27 (FMIC) [Nat'l. Bd. (incl. Endorsements) and state or prov. and no.]

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

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

Not to Exceed One Day's Production

1. Manufactured and certified by FLOWSERVE CORP. R.E.D., 2300 EAST VERNON AVE. VERNON CA 90058 (name and address of NPT Certificate Holder)

2. Manufactured for PP&L, INC. 2 NORTH NINTH STREET ALLENTOWN, PA 18101-1149 (name and address of Purchaser)

3. Location of installation PP&L, INC. SUSQUEHANNA SES, 5MI NE OF BERWICK ON US RT 11, PO BOX 467, BERWICK PA. 18603 (name and address)

4. Type: 313319, REV. B (drawing no.) ASME SA216, WCB (mat'l. spec. no.) 70 to 95,000 PSI (tensile strength) NA (CRN) 1999 (year built)

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

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

7. Remarks: FLOWSERVE JOB. 99EP4086 PART NAME: CASE, TOP

ASME SEC.II & III, 1980 ED. , WINTER 1980 ADD. FOR MATERIALS, FABRICATION & TESTING

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

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) RS339899	NA
(2) RS339900	NA
(3)	
(4)	
(5)	
(6)	
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Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)	
(27)	
(28)	
(29)	
(30)	
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(48)	
(49)	
(50)	

10. Design pressure 175 psi. Temp. 104 °F. Hydro. test pressure 265/65° (when applicable) at temp. °F

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial Nos. RS339899 through RS339900

CERTIFICATION OF DESIGN

Design specifications certified by NA (when applicable) P.E. State NA Reg. no. NA

Design report* certified by NA (when applicable) P.E. State NA Reg. no. NA

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N1131 Expires JUNE, 10, 2002

Date 11-16-99 Name FLOWSERVE CORP R.E.D. (NPT Certificate Holder) Signed (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by ARKWRIGHT MUTUAL INS. CO. (FACTORY MUTUAL INS. CO.) of NORWOOD, MASS. have inspected these items described in this Data Report on November 16, 1999, 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 11/19/99 Signed Howard D. Haston (Authorized Inspector) Commissions CA1574 "N" (Nat'l. Bd. (incl. endorsements) 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 Rules

CORRECTED COPY** P.O. 81942

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 (Name & Address of Manufacturer) Order No. 59022

2. Manufactured for BECHTEL POWER CORPORATION (Name and Address) Order No. 8856-P-15-A

3. Owner PENNSYLVANIA POWER & LIGHT COMPANY

4. Location of Plant 5 MILES N. E. OF BERWICK, PA. ON ROUTE 11 NORTH

5. Pump or Valve Identification NUCLEAR SERVICE LINE VALVES, 2" AND SMALLER

SERIAL NUMBER(S) 9960 THRU 9965

(Brief description of service for which equipment was designed)

(a) Drawing No. 045111 REV. D** 10/15/80 Prepared by YARWAY CORPORATION

(b) National Board No. NONE

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

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

Edition 1974, Addenda Date WINTER 1974, Case No. ----

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	A9	AMS 5382	NOVA HOWMET	DISC
(b) Forgings	R9 & S6	SA105	CAPE ANN TOOL COMPANY	BODY
	YW 773	SA182 F6	AL TECH STEEL	BACKSEAT BUSHING

1026 - 410

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 3a and 3b 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.

3/75 This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017.

YARWAY

ITEM 1 -YARWAY CORPORATION, BLUE BELL, PA. 19422/ORDER NO. 59022

ITEM 2 -BECHTEL POWER CORPORATION/ORDER NO. 8856-P-15-A

I authorize the below listed Sales Drawing revision changes on NPV-1 forms for the following valves:

# NPV-1 Forms	Valve Serial Numbers	Revision Change
1	4865 - 4889	Rev. C to B
1	5696 - 5720	Rev. C to B
1	5770 - 5780	Rev. C to B
31	5821 - 6593	Rev. C to B
1	8145	Rev. B to D
1	8400 - 8401	Rev. B to D
2	8431 - 8456	Rev. B to D
3	9910 - 9965	Rev. B to D
1	A0035 - A0037	Add Rev. C
1	A0038 - A0051	Rev. B to C
1	A0081 - A0083	Rev. B to D
2	A0085 - A0116	Add Rev. D
3	A0118 - A0144	Rev. B to D
1	A0250	Add Rev. D
11	A0251 - A0525	Rev. B to D
3	A0526 - A0577	Add Rev. D
19	A0607 - A1065	Add Rev. D
2	A1066 - A1082	Add Rev. C
3	A1086 - A1141	Add Rev. D
1	A1142 - A1143	Add Rev. C
4	A1235 - A1334	Add Rev. D

The above revision changes do not involve pressure boundry parts.

ITEM 5 -NUCLEAR SERVICE LINE VALVES, 2 " & SMALLER

SERIAL NUMBER(S) 9960 thru 9965

ITEM 5A -DRAWING NO. 045111 Rev. D
PREPARED BY YARWAY CORPORATION

5B -NATIONAL BOARD NO. N/A

Richard G. Edl

R. G. Edl
Authorized Nuclear
Inspector Supervisor
FACTORY MUTUAL ENGINEERING

REGISTER#Z4247

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

P.O.# 18990

1. Manufactured by YARWAY CORPORATION, NORRISTOWN & NARCISSA RDS., BLUE BELL, PA 19422
(Name and Address of N Certificate Holder)
2. Manufactured for PENNA. POWER & LIGHT COMPANY
(Name and Address of Purchaser or Owner)
3. Location of Installation BERWICK, PA
(Name and Address)
4. Pump or Valve VALVE. Nominal Inlet Size 1/2" (inch) Outlet Size 1/2" (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(4) (1)	5515B	B2220	---	045111	2	---	1980 *
(2)		B2221		REV. F			
(3)		B2222					
(4)		B2224					
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. NUCLEAR SERVICE VALVE
(Brief description of service for which equipment was designed)
* REVISED REPORT - STEM/DISC ASSEMBLY REPLACED - VALVES RETESTED. 7-18-86

6. Design Conditions --- (Pressure) psi --- (Temperature) °F or Valve Pressure Class 1500 (1)
7. Cold Working Pressure 3705 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
D15	AMS 5385E	NOVA/HOWMET	DISC
(b) Forgings			
B5	SA105	CAPE ANN TOOL COMPANY	BODY

(1) For manually operated valves only.

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

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting N/A			
(d) Other Parts			
3014	SA182-F6a	CARPENTER TECH. CORPORATION	BACKSEAT BUSHING

9. Hydrostatic test 5575 psi. Disk Differential test pressure 4100 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 1974 Addenda W74 (Date), Code Case No. --- Date 7-18-86

Signed YARWAY CORPORATION (N Certificate Holder) by F. W. PESZKA

Our ASME Certificate of Authorization No. N2449 to use the N (N) symbol expires Nov. 14, 1986 (Date)

CERTIFICATION OF DESIGN

Design information on file at PENNA. POWER & LIGHT COMPANY

Stress analysis report (Class 1 only) on file at NOT REQUIRED

Design specifications certified by (1) JOHN R. SCHMIEDEL, RICHARD O. SCHLUETER, SIDNEY A. COPLAND

PE State PA, PA, PA Reg. No. 19370E, 26382E, 19877E

Stress analysis certified by (1) GEORGE, J. LOOS

PE State PA Reg. No. 23225

(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 PENNA and employed by ARKWRIGHT-BOSTON INSURANCE of NORWOOD, MA* have inspected the pump, or valve, described in this Data Report on July 18 19 86, 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 July 18 19 86. *FACTORY MUTUAL

N S Hendel (Inspector) Commissions PA 2056 NBIB (Nat'l Bd., State, Prov. and No.)

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

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

S/O 08.8201.01
P.O. 0-07101-1

1. Manufactured and certified by AGCO, 5425 S. Rice Avenue, Houston, Tx. 77081
(name and address of N Certificate Holder)

2. Manufactured for Pennsylvania Power and Light Co., Two N. 9th St. Allentown, PA 18101
(name and address of Purchaser)

3. Location of installation Susquehanna Steam Elec. Station 5 Mi NE of Berwick on US Rt. 11N. Berwick, PA 18603
(name and address)

4. Model No., Series No., or Type H7HS-3TC-N Drawing N06-0025-002 Rev. C CRN N/A

5. ASME Code, Section III, Division 1: 1983 (edition) S-85 (addenda date) 3 (class) N/A (Code Case no.)

6. Pump or valve Valve Nominal inlet size 3/8 (in.) Outlet size 3/8 (in.)

7. Material: Body SA479-316 Bonnet SA479-316 Disk A276-316 Bolting N/A
Tube SA213-316

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
N80910	2023	A809-82	A667	13405
N80911	2024	A809-60	A667	13405
N80912	2047	A809-32	A667	13405
N80913	2025	A809-25	A667	13405
N80914	2026	A809-75	A667	13405
N80915	2027	A809-21	A667	13405
N80916	2028	A809-43	A667	13405
N80917	2029	A809-62	A667	13405
N80918	2030	A809-79	A667	13405
N80919	2031	A809-67	A667	13405
N80920	2032	A809-61	A667	13405
N80921	2033	A809-47	A667	13405
N80922	2034	A809-74	A667	13405
N80923	2035	A809-52	A667	13405
N80924	2036	A809-42	A667	13405
N80925	2037	A809-49	A668	13405
N80926	2038	A809-48	A667	13405
N80927	2039	A809-78	A667	13405
N80928	2040	A809-65	A667	13405
N80929	2041	A809-46	A667	13405
N80930	2042	A809-31	A667	13405
N80931	2043	A809-64	A667	13405
N80932	2044	A809-26	A667	13405
N80933	2045	A809-63	A668	13405
N80934	2046	A809-93	A667	13405

*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial No. N80910 thru N80934

8. Design conditions 3460 (pressure) psi 800 (temperature) °F or valve pressure class 2500# (1)

9. Cold working pressure 6000 psi at 100°F

10. Hydrostatic test 9000 psi. Disk differential test pressure 6600 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by Paul D. Marinshaw P.E. State Texas Reg. no. 49874
Design Report certified by J. Alan West P.E. State Texas Reg. no. 41731

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. N2203 Expires 8/4/90

Date 7/23/90 Name Anderson, Greenwood & Co. (N Certificate Holder) Signed Joseph A. Parks (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 Texas and employed by C.U.I.C. of Boston, MA have inspected the pump, or valve, described in this Data Report on _____, 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 7-23-90 Signed [illegible] (Authorized Inspector) Commissions TX803 NB7582 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

9113021371

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 1 of 3

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

Unit: Common

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: ESW SPRAY SYSTEM 054B, 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 PAGE 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) LARGE PIPE ASSEMBLY	BECHTEL	N/A	N/A	HRC-2-24	1982	REPLACED	YES
2) LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	HRC-2-24	2000	REPLACEMENT	NO
3) VALVE	JAMESBURY	ND-21305-01A	N/A	HV01222A	1978	REPAIRED	YES
4) VALVE	JAMESBURY	ND-63326-01A	N/A	HV01222A	1977	REPLACED	YES
5) VALVE	JAMESBURY	ND-21305-01A	N/A	HV01222A	1978	REPLACEMENT	YES
6) VALVE	JAMESBURY	ND-21305-12A	N/A	HV01224A1	1978	REPLACED	YES
7) VALVE	JAMESBURY	ND-C41758-500	N/A	HV01224A1	1998	REPLACEMENT	YES

7. Description of Work: SEE ATTACHED LIST

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure * psi Test Temp. * °F (SEE SHEET 3 OF 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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 2 of 3

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

Unit: COMMON

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: ESW SPRAY SYSTEM 054B, 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 PAGE 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	JAMEBURY	ND-21305-02A	N/A	HV01224A2	1978	REPLACED	YES
9) VALVE	JAMEBURY	ND-C41758-540	N/A	HV01224A2	1998	REPLACEMENT	YES
10) LARGE PIPE ASSEMBLY BOLTING	BECHTEL	N/A	N/A	HRC-1-90	1982	REPLACED	YES
11) LARGE PIPE ASSEMBLY BOLTING	PP&L	N/A	N/A	HRC-1-90	1999	REPLACEMENT	NO

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: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
   Date: 06/27/00
   Sheet 3 of 3

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

3. Work Performed by: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
   Type Code Symbol Stamp: None
   Authorization No.: N/A
   Expiration Date: N/A

4. Indentification of System: ESW SPRAY SYSTEM 054B, 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 (* SEE CODE EDITION 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)
1-2	S71734	LE-01201B2; REPLACED LEVEL PROBE, FLANGE IS PRESSURE RETAINING	VT-2 PER SE-116-301 TEMP 74°F & PRESS 81 PSIG	ORIGINAL AND REPLACEMENT LEVEL PROBE; 1971 ED WIN 72 ADD
3	Service Order # 23078	INSTALLED STAINLESS OVERLAY IN SPARE VALVE S/N ND-21305-01A FOR INSTALLATION AS HV01224A	SEE WA S74531	VALVE; 1974 ED NO ADD CC 1702, 1773
4-5	S74531	HV01222A; REPLACED VALVE	VT-2 PER SE-116-301 TEMP 44°F & PRESS 89 PSIG	ORIGINAL AND REPLACEMENT VALVE; 1974 ED NO ADD CC 1702, 1773
6-7	S74532	HV01224A1; REPLACED VALVE	VT-2 PER SE-116-301 TEMP 44°F & PRESS 88 PSIG	ORIGINAL AND REPLACEMENT VALVE; 1974 ED NO ADD CC 1702, 1773
8-9	S73972	HV01224A2; REPLACED VALVE	VT-2 PER SE-116-301 TEMP 44°F & PRESS 88 PSIG	ORIGINAL AND REPLACEMENT VALVE; 1974 ED NO ADD CC 1702, 1773
10-11	S74531, S74532 & S73972	HRC-1-90; REPLACED FLANGE BOLTING	VT-2 PER SE-116-301 TEMP 44°F & PRESS 88 PSIG	1971 ED WIN 72 ADD

CONNECTED REPORT ITEM 3. 30 JAN 81

TRC
QAE

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 Jamesbury Corp. 640 Lincoln Street Worcester, MA 01605
(Name and Address of Manufacturer)
2. Manufactured for Bechtel Power Corp., San Francisco, CA UNITS 1 & 2
(Name and Address of Purchaser or Owner)
3. Location of Installation Susquehanna Steam Electric Station, Berwick, PA SALEM TWP. LUZERNE
(Name and Address)
4. Pump or Valve Valve Nominal Inlet Size 36" (mm) Outlet Size 36" (mm) QAE

	(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)	8226 PX	ND-21305-01A	N/A	ND-21305-01	3	N/A	1978
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

6. Design Conditions 275 Body / 180 Seat (Pressure) psi 125 (Temperature) °F or Valve Pressure Class 150 psi (1)
7. Cold Working Pressure 275 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
GFW-1	ASME SA 351 Gr. CF8M	Stainless Foundry	Wafer
(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

(3/77) This form (E00027) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts	ASME SA 515		
B1 M-1	Gr. 70	Lukens	Body

8. Hydrostatic test 425 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the 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 N/A (Date), Code Case No. 1773-1702, Date 1978

Signed James Byry Corp. (Manufacturer) by Thomas J. Pitt

Our ASME Certificate of Authorization No. N-1228 to use the N (NS parts) symbol expires 11/30/78 (Date)

CERTIFICATION OF DESIGN

Design information on file at Bechtel Power Corp. San Francisco, CA

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

Design specifications certified by (1) John R. Schmiedel

PE State PA Reg. No. 19870E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

1025 443

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 PA and employed by Lumbermen's Mut'l Casualty Co. of Long Grove, Ill have inspected the pump, or valve, described in this Data Report on 11-13, 1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve in accordance with the ASME Code, Section III.

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

Date 11-13-1978

Inspector's Signature

Commissions CK528 (Nat'l Bd., State, Prov. and No.)

NELES-JAMESBURY

CERTIFICATE OF CONFORMANCE

We certify that the refurbished valve shipped and applicable documentation for same conforms to the applicable requirements of the purchase order/release/contract and applicable codes, standards, specifications, and drawings unless otherwise noted below.

(1) Purchase Order No.: S-19624-5
(2) Change Order No.: 45 DP 18 Feb 94
(3) Supplier Name: Neles-Jamesbury, Inc.
(4) Address: 640 Lincoln St., Worcester, MA.

ITEM IDENTIFICATION

(5) PP & L ORDER ITEM NO.	(6) PP & L CATALOG NO.	(7) QUANTITY SHIPPED	(8) DESCRIPTION
3	----------	1	36" 8226PX MOD. B 150# WAFERSPHERE VALVE S/N ND-21305-01A

(9) PP & L Approved Exceptions NONE
We also state NO MAJOR REPAIRS PERFORMED.

We certify that the statements made in the NUCLEAR RETURN REPORT N-7709-A are correct and the refurbishment conforms to the above P.O.. DP 21 Feb 94

Donald P. Parker — 17 Feb 94
Donald P. Parker Sr. Quality Technician — Date

Our ASME Certificate of Authorization No. N-1228 to use the N Stamp expires 27 Oct. 96 .

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 of Norwood, MA. have inspected the refurbishment described in the NUCLEAR RETURN REPORT N-7709 on February 17, 1994 and state that to the best of my knowledge and belief, this refurbishment has been made in accordance with the above P.O.. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the refurbishment described in the report N-7709. 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 2-17-94 — Inspector — Commissions MA 1413 (Factory Mutual Engineering Association)

NELES-JAMESBURY, INC
640 LINCOLN STREET BOX 15004 WORCESTER, MASSACHUSETTS 01615-0004 U.S.A.
PHONE: (508) 852-0200 TELEX: 92-0448 FAX: (508) 852-8172

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

Manufactured by JAMESBURY, INC. 640 LINCOLN ST., WORCESTER, MA 01615
(Name and Address of N Certificate Holder)

2. Manufactured for ENERTECH, 2950 BIRCH STREET, BREA, CA. 92821
(Name and Address of Purchaser or Owner)

3. Location of Installation PENN PWR. & LIGHT, SUSQUEANNA-S.E.S., 5 MI. NE. of BERWICK •
(Name and Address)

4. Pump or Valve WAFER-SPHERE VALVE Nominal Inlet Size 30" Outlet Size 30"

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd.No.	(g) Year Built
(1)	815L	ND-C41758-500	N/A	ND-C41758-500 REV. 0	3	N/A	1998
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)	• US ROUTE 11, BERWICK, PA. 18603						

5. REPLACEMENT VALVE
(Brief Description of service for which equipment was designed)

Design Conditions BODY 275 psi 100 °F
SEAT 177 psi 125 °F or Valve Pressure Class 150lb(1)
(Temperature)

Cold Working Pressure 275 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec.No.	Manufacturer	Remarks
(a) Castings	ASME SA		
(1) 8A1519-1	351 Gr. CF8M	PENNSYLVANIA STEEL FOUNDRY	BODY
(1) 7H3	351 Gr. CF8M	COMMERCIAL AIANOX	DISC
(3)			
(4)			
(5)			
(6)			
(7)			
(8)			
(b) Forgings			

(1) For manually operated valves only. *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.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
Bolting	ASME SA		
66	193 Gr. B8	NOVA MACHINE	HEX HD. CAP SCREWS
(d) Other Parts	ASME SA		
SAH	479 TYPE 316	NOVA MACHINE	COVER PLATE

9. Hydrostatic test 425 psi. Disk Differential test pressure 195 psi. ND-C41758-500

CERTIFICATE OF COMPLIANCE

I 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 (Date), Addenda NONE, Code Case No. 1702/1773 Date 26 Jun 88

Signed JAMESBURY, INC. (N Certificate Holder) by Donald O Parker

Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires 27 OCT. 1999 (Date).

CERTIFICATION OF DESIGN

Design information on file at PP & L, SUSQUEHANNA S.E.S BERWICK, PA. 18603

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

Design specifications certified by (1) EDWARD B. GERLACH

PE State PA Reg. No. 35701-E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NEW YORK and employed by PROTECTION MUTUAL of NORWOOD, MASSACHUSETTS have inspected the pump, or valve, described in this Data Report on June 26 19 88, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, 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 or his employer shall be 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 June 26 19 88.

(Inspector)

FACTORY MUTUAL ENGINEERING ASSOCIATION

Commissions CY5061 (Nat'l Bd., State, Prov. and No.)

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

1. Manufactured by JAMESBURY, INC. 640 LINCOLN ST., WORCESTER, MA 01615
(Name and Address of N Certificate Holder)

2. Manufactured for ENERTECH, 2950 BIRCH STREET, BREA, CA. 92821
(Name and Address of Purchaser or Owner)

3. Location of Installation PENN PWR. & LIGHT, SUSQUEANNA-S.E.S., 5 MI. NE. of BERWICK •
(Name and Address)

4. Pump or Valve WAFER-SPHERE VALVE Nominal Inlet Size 24" Outlet Size 24"

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd.No.	(g) Year Built
(1)	815L	ND-C41758-540	N/A	ND-C41758-540 REV. A	3	N/A	1998
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)	• US ROUTE 11, BERWICK, PA. 18603						

5. REPLACEMENT VALVE
(Brief Description of service for which equipment was designed)

6. Design Conditions BODY 275 psi 100 °F
SEAT 177 psi 125 °F or Valve Pressure Class 150lb(1)
(Temperature)

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

8. Pressure Retaining Pieces

Mark No.	Material Spec.No.	Manufacturer	Remarks
(a) Castings	ASME SA		
(1) 8A1348-1	351 Gr. CF8M	PENNSYLVANIA STEEL FOUNDRY	BODY
(1) 193A-1	351 Gr. CF8M	STAINLESS FOUNDRY	DISC
(3)			
(4)			
(5)			
(6)			
(7)			
(8)			
(b) Forgings			

(1) For manually operated valves only. *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.

FORM NPV-1 (Back)

Mark No.	Material Spec.No.	Manufacturer	Remarks
) Bolting	ASME SA		
1666	193 Gr. B8	NOVA MACHINE	HEX HD. CAP SCREWS
(d) Other Parts	ASME SA		
SAH	479 TYPE 316	NOVA MACHINE	COVER PLATE

9. Hydrostatic test 425 psi. Disk Differential test pressure 195 psi. ND-C41758-540

CERTIFICATE OF COMPLIANCE

e certify that the statements made in this report are correct and that this pump, or valve, onforms to the rules of construction of the ASME Code for Nuclear Power Plant Components.

Section III, Div. 1., Edition 1974 (Date), Addenda NONE, Code Case No. 1702/1773 Date 26 Jun 98

Signed JAMESBURY, INC. (N Certificate Holder) by Donald P. Parker

Our ASME Certificate of Authorization No. N-1228 to use the N (N) symbol expires 27 OCT. 1999 (Date).

CERTIFICATION OF DESIGN

Design information on file at PP & L, SUSQUEHANNA S.E.S BERWICK, PA. 18603

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

Design specifications certified by (1) EDWARD B. GERLACH

PE State PA Reg. No. 35701-E

Stress analysis certified by (1) N/A

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

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NEW YORK and employed by PROTECTION MUTUAL of NORWOOD, MASSACHUSETTS have inspected the pump, or valve, described in this Data Report on June 26 1998, 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 June 26 19 98.

(Inspector)

FACTORY MUTUAL ENGINEERING ASSOCIATION

Commissions NY5061 (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 1 Of 5

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RHR SERVICE WATER SYSTEM 116, 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 CODE EDITION PAGE 5)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) SERIES CASE (SPARE)	BYRON JACKSON	731-S-1152-6 (SERIES CASE)	N/A	1P506A	1978	REPAIRED	YES
2) 1A RHR SW PMP UPPER SERIES COMLUMN	BYRON JACKSON	198948 (COLUMN)	N/A	1P506A	1989	REPLACED	YES
3) 1A RHR SW PMP UPPER SERIES COMLUMN	BYRON JACKSON	731-S-1153-1 (COLUMN)	N/A	1P506A	1978	REPLACEMENT	YES
4) 1A RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	198947 (COLUMN)	N/A	1P506A	1989	REPLACED	YES
5) 1A RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	731-S-1153-2 (COLUMN)	N/A	1P506A	1978	REPLACEMENT	YES
6) 1A RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	198949 (COLUMN)	N/A	1P506A	1989	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 5

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

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 6 ~~19~~ 2000

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 9-22-98 to 10-27-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

* Factory Mutual Engineering Association

[signature] Commissions NB 7525 IBNA PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date July 10 ~~19~~ 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 2 of 5

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR SERVICE WATER SYSTEM 116A, 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 CODE EDITION PAGE 5)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
7) 1A RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	731-S-1153-3 (COLUMN)	N/A	1P506A	1978	REPLACEMENT	YES
8) 1A RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	198946 (COLUMN)	N/A	1P506A	1989	REPLACED	YES
9) 1A RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	731-S-1153-4 (COLUMN)	N/A	1P506A	1978	REPLACEMENT	YES
10) 1A RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1155-5 (CASE)	N/A	1P506A	1978	REPLACED	YES
11) 1A RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1154-5 (CASE)	N/A	1P506A	1978	REPLACEMENT	YES
12) 1A RHR SW PMP SERIES CASE	BYRON JACKSON	731-S-1155-6 (CASE)	N/A	1P506A	1978	REPLACED	YES
13) 1A RHR SW PMP SERIES CASE	BYRON JACKSON	731-S-1152-6 (CASE)	N/A	1P506A	1978	REPLACEMENT	YES
14) 1A RHR SW PMP SUCTION BELL	BYRON JACKSON	202944 (SUCT BELL)	N/A	1P506A	1987	REPLACED	YES
15) 1A RHR SW PMP SUCTION BELL	BYRON JACKSON	731-S-1154-7 (SUCT BELL)	N/A	1P506A	1978	REPLACEMENT	YES
16) 1A RHR SW PMP (BOLTING)	BYRON JACKSON	N/A	N/A	1P506A	1978	REPLACED	YES
17) 1A RHR SW PMP (BOLTING)	PP&L	N/A	N/A	1P506A	1998	REPLACEMENT	NO

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 3 of 5

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR SERVICE WATER SYSTEM 116A, 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 CODE EDITION PAGE 5)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) 1B RHR SW PMP UPPER SERIES COMLUMN	BYRON JACKSON	731-S-1153-1 (COLUMN)	N/A	1P506B	1978	REPLACED	YES
19) 1B RHR SW PMP UPPER SERIES COMLUMN	BYRON JACKSON	198948 (COLUMN)	N/A	1P506B	1989	REPLACEMENT	YES
20) 1B RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	731-S-1153-2 (COLUMN)	N/A	1P506B	1978	REPLACED	YES
21) 1B RHR SW PMP INTERMEDIATE COLUMN	BYRON JACKSON	198947 (COLUMN)	N/A	1P506B	1989	REPLACEMENT	YES
22) 1B RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	731-S-1153-3 (COLUMN)	N/A	1P506B	1978	REPLACED	YES
23) 1B RHR SW PMP LOWER SERIES COLUMN	BYRON JACKSON	198949 (COLUMN)	N/A	1P506B	1989	REPLACEMENT	YES
24) 1B RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	731-S-1153-4 (COLUMN)	N/A	1P506B	1978	REPLACED	YES
25) 1B RHR SW PMP BOTTOM COLUMN	BYRON JACKSON	198946 (COLUMN)	N/A	1P506B	1989	REPLACEMENT	YES
26) 1B RHR SW PMP TOP CASE	BYRON JACKSON	861W4335-1 (CASE)	N/A	1P506B	1987	REPLACED	YES
27) 1B RHR SW PMP TOP CASE	BYRON JACKSON	731-S-1155-5 (CASE)	N/A	1P506B	1978	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 4 of 5

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR SERVICE WATER SYSTEM 116A, 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 CODE EDITION PAGE 5)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) 1B RHR SW PMP SERIES CASE	BYRON JACKSON	861W4335-2	N/A	1P506B	1987	REPLACED	YES
29) 1B RHR SW PMP SERIES CASE	BYRON JACKSON	731-S-1155-6 (CASE)	N/A	1P506B	1978	REPLACEMENT	YES
30) 1B RHR SW PMP SUCTION BELL	BYRON JACKSON	861W4335-3	N/A	1P506B	1987	REPLACED	YES
31) 1B RHR SW PMP SUCTION BELL	BYRON JACKSON	202944 (SUCT BELL)	N/A	1P506B	1987	REPLACEMENT	YES
32) 1B RHR SW PMP BOLTING	BYRON JACKSON	N/A	N/A	1P506B	1978	REPLACED	YES
33) 1B RHR SW PMP (BOLTING)	PP&L	N/A	N/A	1P506B	1998	REPLACEMENT	NO

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

1. Owner: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 5 of 5

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR SERVICE WATER SYSTEM 116A, CLASS III

5. (a) Applicable Construction Code: ASME Sec III * 19 71 Edition, Thru W'72 Addenda, N/A* Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE CODE EDITION BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ WORK ORDER	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1	V81716	1P506A, SHOP WELD REPAIR OF SERIES CASE	N/A; SHOP WORK INSTALLATION IN 1P506A PER WA # V83785	1971 ED WIN 72 ADD
2-17	V81655 & S83785	1P506A; REPLACED ALL COLUMNS AND PUMP ASSEMBLY & ASSOCIATED BOLTING	VT-2 PER SE-116-301 TEMP 54°F PRESS 84 PSIG	Items Built Year 1989, Sec III1980 ED WIN 80 ADD. Original Pump & Replace Parts Built 1978, 1971 ED WIN 72 ADD
18-33	S83784 & S83786	1P506B; REPLACED ALL COLUMNS AND PUMP ASSEMBLY & ASSOCIATED BOLTING	VT-2 PER SE-116-301 TEMP 41°F PRESS 87 PSIG	ORIGINAL & REPLACEMENT PUMP, 1971 ED WIN 72 ADD Except Items Built Year 1989, Sec III1980 ED WIN 80 ADD

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 of 3

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

Unit: ONE

SEE PAGE 3 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Identification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D, 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 Code Case N-416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) CS PUMP ROOM COOLER HX	AEROFIN	900636	N.A.	1E231B (UPPER COIL)	1990	REPAIRED	YES
2) CS PUMP ROOM COOLER HX	AEROFIN	900637	N.A.	1E231B (LOWER COIL)	1990	REPAIRED	YES
3) UPPER FLEX HOSE (U. COIL)	ANAMET	0291-19251-03-1	N.A.	1E231B (UPPER COIL)	1990	REPLACED	NO
4) UPPER FLEX HOSE (U. COIL)	ANAMET	51399532281-01-001	N.A.	1E231B (UPPER COIL)	1999	REPLACEMENT	NO
5) CS PUMP ROOM COOLER HX	AEROFIN	900638	N.A.	1E231D (UPPER COIL)	1990	REPAIRED	YES
6) CS PUMP ROOM COOLER HX	AEROFIN	900639	N.A.	1E231D (LOWER COIL)	1990	REPAIRED	YES
7) CS PUMP ROOM COOLER HX	AEROFIN	900632	N.A.	1E231A (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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

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

Date: 06/26/00

Sheet 2 of 3

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

Unit: ONE

SEE ATTACHED PAGE 3 OF 3
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Indentification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D, 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 Code Case N-416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) CS PUMP ROOM COOLER HX	AEROFIN	900633	N.A.	1E231A (LOWER COIL)	1990	REPAIRED	YES
9) LOWER FLEX HOSE (L. COIL)	ANAMET	0291-19251-02-1	N.A.	1E231A (LOWER COIL)	1989	REPLACED	NO
10) LOWER FLEX HOSE (L. COIL)	ANAMET	102498531030-01-004	N.A.	1E231A (LOWER COIL)	1999	REPLACEMENT	NO
11) CS PUMP ROOM COOLER HX	AEROFIN	900634	N.A.	1E231C (UPPER COIL)	1990	REPAIRED	YES
12) CS PUMP ROOM COOLER HX	AEROFIN	900635	N.A.	1E231C (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 3 of 3

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

Unit: ONE

SEE BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Identification of System: CORE SPRAY PUMP ROOM COOLING SYSTEM 134D, 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 Code Case N-416-1

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHORIZATION	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1 - 4	103273	1E231B, REPAIRED COILS BY WELDING & UPPER COIL UPPER FLEX HOSE	VT-2 PER SE-054-301 TEMP: 55 °F / PRESS: 132 PSIG
5 - 6	103275	1E231D, REPAIRED COILS BY WELDING	VT-2 PER SE-054-301 TEMP: 55 °F / PRESS: 132 PSIG
7 – 10	103130	1E231A, REPAIRED COILS BY WELDING & LOWER COIL LOWER FLEX HOSE..	VT-2 PER SE-054-301 TEMP: 38 °F / PRESS: 138 PSIG
11 - 12	103274	1E231C, REPAIRED COILS BY WELDING	VT-2 PER SE-054-301 TEMP: 35 °F / PRESS: 138 PSIG

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 of 2

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

Unit: ONE

SEE SHEET 2 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Identification of System: HPCI PUMP ROOM COOLING SYSTEM 134E, 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 Code Case N-416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPHRC118-2	1982	REPAIRED	YES
2) FLEX HOSE (LOWER)	ANAMET	994-509826-02-001	N/A	1E229B	1994	REPLACED	NO
3) FLEX HOSE (LOWER)	ANAMET	120498531278 01-003	N/A	1E229B	1999	REPLACEMENT	NO
4) HEAT EXCH	AEROFIN	900613	N/A	1E229B	1990	REPAIRED	YES
5) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPHRC118-2	1982	REPLACED	YES
6) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPHRC118-2	2000	REPLACEMENT	NO

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 2 of 2

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

Unit: ONE

SEE BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Identification of System: HPCI PUMP ROOM COOLING SYSTEM 134E, 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 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	S81025	SPHRC118-2, REPAIRED DEFECTIVE SOCKET WELD	VT-2 PER SE-054-301 TEMP: 75°F / PRESS: 115 PSIG
2-6	103664	1E229B, REPAIRED COIL BY WELDING, REPLACED FLEX HOSE AND REPLACE SMALL PIPE FLANGE BOLTING.	VT-2 PER SE-054-301 TEMP: 35 °F / PRESS: 108 PSIG

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 of 4

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

Unit: ONE

SEE ATTACHED SHEET 4 OF 4 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Identification of System: RHR 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 Remarks Sec. 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) UPPER COIL (LOWER HOSE)	ANAMET	034-505916-01-004	N/A	1E230B	1994	REPLACED	NO
2) UPPER COIL (LOWER HOSE)	ANAMET	102498525665 01-003	N/A	1E230B	2000	REPLACEMENT	NO
3) HEAT EXCH UPPER COIL	AEROFIN	900616	N/A	1E230A	1990	REPAIRED	YES
4) HEAT EXCH LOWER COIL	AEROFIN	900617	N/A	1E230A	1990	REPAIRED	YES
5) UPPER COIL (UPPER HOSE)	ANAMET	061496520647 -02-002	N/A	1E230A	1996	REPLACED	NO
6) UPPER COIL (UPPER HOSE)	ANAMET	091495517419 -01-001	N/A	1E230A	1995	REPLACEMENT	NO
7) HEAT EXCH UPPER COIL	AEROFIN	900620	N/A	1E230B	1990	REPAIRED	YES

7. Description of Work: SEE SHEET 4 FOR DESCRIPTION OF WORK & TESTS CONDUCTED.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ SEE SHEET 4
Other ☐ Pressure _____ psi Test Temp. _____ °F SEE SHEET 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 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** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 6, 20 00
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 11-3-99 to 5-5-00, 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.

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

Date July 10 20 00

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

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

Date: 06/26/00

Sheet 2 of 4

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

Unit: ONE

SEE ATTACHED SHEET 4 OF 4
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Indentification 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 Remarks Sec. 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) LOWER COIL (UPPER HOSE)	ANAMET	N/A	N/A	1E230B	1989	REPLACED	NO
9) LOWER COIL (UPPER HOSE)	ANAMET	994-509951 -01-007	N/A	1E230B	1994	REPLACEMENT	NO
10) HEAT EXCH UPPER COIL	AEROFIN	900622	N/A	1E230D	1990	REPAIRED	YES
11) HEAT EXCH LOWER COIL	AEROFIN	900623	N/A	1E230D	1990	REPAIRED	YES
12) UPPER COIL (UPPER HOSE)	ANAMET	061496518270- 01-002	N/A	1E230D	1996	REPLACED	NO
13) UPPER COIL (UPPER HOSE)	ANAMET	0994509951- 01-004	N/A	1E230D	1994	REPLACEMENT	NO
14) UPPER COIL (LOWER HOSE)	ANAMET	794508841- 02-003	N/A	1E230D	1994	REPLACED	NO
15) UPPER COIL (LOWER HOSE)	ANAMET	102498525665- 01-004	N/A	1E230D	1999	REPLACEMENT	NO
16) HEAT EXCH UPPER COIL	AEROFIN	900616	N/A	1E230A	1990	REPAIRED	YES
17) HEAT EXCH LOWER COIL	AEROFIN	900617	N/A	1E230A	1990	REPAIRED	YES
18) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPHRC126-4	1982	REPLACED	YES

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

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

Date: 06/26/00

Sheet 3 of 4

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

Unit: ONE

SEE ATTACHED SHEET 4 OF 4
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Indentification 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 Remarks Sec. 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)
19) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPHRC126-4	2000	REPLACED	NO
20) HEAT EXCH LOWER COIL	AEROFIN	900619	N/A	1E230C	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 4 of 4

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

Unit: ONE

SEE BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: NONE

Authorization No.: N.A.

Expiration Date: N.A.

4. Identification of System: RHR 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 Remarks Sec. 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTHOR./ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	S85317	98-134-014	1E230B, REPLACED UPPER COIL LOWER HOSE	VT-2 PER SE-054-301 TEMP: 34°F / PRESS: 106 PSIG
3-6	P83575	99-134-002	1E230A, REPAIRED HTX BY WELDING & REPLACED UPPER COIL UPPER HOSE	VT-2 PER SE-054-301 TEMP: 35 °F / PRESS: 108 PSIG
7-9	101075	99-134-005 & 99-134-006	1E230B, REPAIRED HTX BY WELDING & REPLACED LOWER COIL UPPER HOSE	VT-2 PER SE-054-301 TEMP: 34 °F / PRESS: 106 PSIG
10-15	103084	99-134-007 & 99-134-008	1E230D REPAIRED HTX BY WELDING & REPLACED UPPER COIL BOTH HOSES	VT-2 PER SE-054-301 TEMP: 33 °F / PRESS: 145 PSIG
16-19	224059	00-134-005 & 00-134-011	1E230A REPAIRED HTX BY WELDING & REPLACED SMALL PIPE FLANGE BOLTING	VT-2 PER SE-054-301 TEMP: 32 °F / PRESS: 137 PSIG
20	204500	00-134-006 & 00-134-012	1E230C REPAIRED HTX BY WELDING	VT-2 PER SE-054-301 TEMP: 33 °F / PRESS: 134 PSIG

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 1 Of 3

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

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

5. (a) Applicable Construction Code 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 (PIPE PLUG)	ANCHOR DARLING	E5854-93-2	N/A	153070A	1981	REPLACED	YES
2) VALVE (PIPE PLUG)	PP&L	N/A	N/A	153070A	1998	REPLACEMENT	NO
3) HEAT EXCH (BOLTING)	AMERICAN STANDARD	5-20001-01-1	29063	1E202A	1975	REPLACED	YES
4) HEAT EXCH (BOLTING)	PP&L	N/A	N/A	1E202A	1999	REPLACEMENT	NO
5) HEAT EXCHANGER	AMERICAN STANDARD	5-20001-01-2	29064	1E202B	1975	REPAIRED	YES
6) HEAT EXCHANGER	AMERICAN STANDARD	5-20001-01-3	29065	1E202C	1975	REPAIRED	YES
7) HEAT EXCH (BOLTING)	AMERICAN STANDARD	5-20001-01-3	29065	1E202C	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 REPORT(S) ATTACHED. ANCHOR DARLING VALVE, '71 EDITION WINTER '72
Applicable Manufacturer's Data Reports to be attached

CC 1516-1 & 1534.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 6 19 2000

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 2-2-99 to 5-5-00, 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.

[signature] Inspector's Signature

Commissions NB 7525 IBNA PA 2139
National Board, State, Province, and Endorsements

Date July 10 19 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 2 of 3

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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)
8) HEAT EXCH (BOLTING)	PP&L	N/A	N/A	1E202C	1999	REPLACEMENT	NO
9) HEAT EXCH (SMALL PIPE NOZZLES)	AMERICAN STANDARD	5-20001-01-3	29065	1E202C	1975	REPLACED	YES
10) HEAT EXCH (SMALL PIPE NOZZLES)	PP&L	N/A	N/A	1E202C	1999	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 3 of 3

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL POOL COOLING 135B, 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 SECTION 9)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	S80759	98-135-001	153070A, REPLACED LEAK OFF BUSHING WITH PIPE PLUG	NON-VT-2 PER MI-PS-008
3-4	P80470	98-135-002	1E202A, REPLACED HEAT EXCHANGER BOLTING	NON-VT-2 PER MI-PS-008
5	P80337	99-135-001	1E202B, REPAIRED HEAT EXCHANGER BY WELDING.	VT-2 PER TP-000-001 TEMP 74°F / PRESS 30 PSIG
6-10	P80399	99-135-002 & 99-135-003	1E202C, REPAIRED HEAT EXCHANGER CORROSION AREAS, REPLACED PIPE NOZZLES AND BOLTING	VT-2 PER TP-000-001 TEMP 62°F / PRESS 29.9 PSIG

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 1

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

Unit: ONE

S84442, CRF 98-145-004 & 98-145-005 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: FEEDWATER SYSTEM 145A, 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 (* CC1516-1,1534,1535-2,1334-2)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) VALVE	ANCHOR DARLING	E5820-2A-1	N/A	141818B	1976	REPAIRED	YES

7. Description of Work: GROUND LINEAR INDICATIONS & REWELDED PIPE PLUG

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 VALVE ID # 141818B ORIGINALLY REPORTED ON N-5 REPORT AS HV-14107B.

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29, ~~19~~ 2000

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 10-6-98 to 10-8-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date JUNE 29 ~~19~~ 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 2

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: FEEDWATER SYSTEM 145A, 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) VALVE	ATWOOD MORRILL	1-203	N/A	HV-141F032A	1975	REPAIRED	YES
2) VALVE	ATWOOD MORRILL	1-203	N/A	HV-141F032A	1975	REPAIRED	YES
3) VALVE	ATWOOD MORRILL	2-203	N/A	HV-141F032B	1975	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 _____

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date June 29, 2000

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 10-4-98 to 6-8-00, 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.

[signature] Commissions NB 7525 IRNA PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 29 19 2000

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

1. Owner: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 2 of 2

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FEEDWATER SYSTEM 145A, 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

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK AUTH./ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1	S83957	98-145-003	HV141F032A, REPAIRED LEAK OFF PIPE PLUG WELD.	NON-VT-2 PER MI-PS-008
2	102341	99-145-001	HV141F032A, PERFORMED TACK WELDING DURING SOFT SEAT REPLACEMENT	NON-VT-2 PER MI-PS-008
3	102342	99-145-002	HV141F032B, PERFORMED TACK WELDING DURING SOFT SEAT REPLACEMENT	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/24/2000

Sheet 1 Of 5

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RHR POOL SPRAY, PUMPS AND AUXILIARY SYSTEM 149A, 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 (PLUG ASSEMBLY)	CONTROL COMPONENTS	35188-1-2	N/A	HV151F017B	1984	REPLACED	YES
2) VALVE (PLUG ASSEMBLY)	CONTROL COMPONENTS	Part # 127001005 S/N 1 or 2	N/A	HV151F017B	1984	REPLACEMENT	YES
3) VALVE (PLUG ASSEMBLY)	CONTROL COMPONENTS	35188-1-1	N/A	HV151F017A	1984	REPLACED	YES
4) VALVE (PLUG ASSEMBLY)	CONTROL COMPONENTS	M300781-2	N/A	HV151F017A	1999	REPLACEMENT	YES
5) VALVE (PLUG ASSEMBLY)	CONTROL COMPONENTS	Part # 127001005 S/N 1 or 2	N/A	HV151F017B	1984	REPLACED	YES
6) VALVE (PLUG ASSEMBLY)	CONTROL COMPONENTS	M300780-2	N/A	HV151F017B	1999	REPLACEMENT	YES
7) VALVE (BONNET PLUG)	CONTROL COMPONENTS	35188-1-2	N/A	HV151F017B	1984	REPLACED	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

Items 2 & 5 document deficiency tracing installation to a lot of 2 assemblies, the actual serial number was unknown. Plug assembly has been removed by item 5. Reference Condition Report 269641.

Items 29 & 30 document replacement of valve preformed in 1989. Reference Condition Report 245953.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date July 10 ~~19~~ 2000

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 4-5-99 to 4-3-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date July 10 ~~19~~ 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/24/2000

Sheet 2 of 5

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR POOL SPRAY, PUMPS AND AUXILIARY SYSTEM 149A, 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)
8) VALVE (BONNET PLUG)	BONNEY FORGE	HT # DF78	N/A	HV151F017B	1993	REPLACEMENT	NO
9) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB104-H2000	1982	REPAIRED	NO
10) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB104-H2002	1982	REPAIRED	NO
11) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPGBB104-H2003	1982	REPAIRED	NO
12) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBD5004-H10	1982	REPAIRED	NO
13) PUMP SUBASSEMBLY	INGERSOLL RAND	0573309	N/A	1P202B	1973	REPLACED	YES
14) PUMP SUBASSEMBLY	INGERSOLL RAND	0887-029	N/A	1P202B	1987	REPLACEMENT	YES
15) PUMP SEAL	INGERSOLL RAND	0573309	N/A	1P202B	1973	REPLACED	YES
16) PUMP SEAL	INGERSOLL RAND	91P90512	N/A	1P202B	1995	REPLACEMENT	YES
17) PUMP BOLTING	INGERSOLL RAND	0573309	N/A	1P202B	1973	REPLACED	YES
18) PUMP BOLTING	PP&L	N/A	N/A	1P202B	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/24/2000

Sheet 3 of 5

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR POOL SPRAY, PUMPS AND AUXILIARY SYSTEM 149A, 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)
19) LARGE PIPE SUB-ASSEMBLY (BOLTING)	BECHTEL	N/A	N/A	GBB112-2	1982	REPLACED	YES
20) LARGE PIPE SUB-ASSEMBLY (BOLTING)	PP&L	N/A	N/A	GBB112-2	2000	REPLACEMENT	NO
21) LARGE PIPE SUB-ASSEMBLY (BOLTING)	BECHTEL	N/A	N/A	GBB112-1	1982	REPLACED	YES
22) LARGE PIPE SUB-ASSEMBLY (BOLTING)	PP&L	N/A	N/A	GBB112-1	2000	REPLACEMENT	NO
23) VALVE	ANCHOR DARLING	E5854-27-1	N/A	HV151F024A	1977	REPAIRED	YES
24) VALVE	ANCHOR DARLING	E5854-27-2	N/A	HV151F024B	1977	REPAIRED	YES
25) VALVE	ANCHOR DARLING	E5854-27-1	N/A	HV151F024A	1977	REPAIRED	YES
26) LARGE PIPE SUPPORT	BECHTEL	N/A	N/A	GBB109-H35	1982	REPAIRED	NO
27) SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	JD-28-3-6C	1982	REPLACED	YES
28) SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	JD-28-3-6C	2000	REPLACEMENT	NO
29) VALVE	ANDERSON GREENWOOD	6195	N/A	IC-PSH-1N018	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: PP&L, Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
2. Plant: Susquehanna Steam Electric Station (Name)
   PO Box 467, Berwick, PA 18603 (Address)
3. Work Performed by: Pennsylvania Power & Light Co. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/24/2000
Sheet 4 of 5
Unit: ONE
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. Indentification of System: RHR POOL SPRAY, PUMPS AND AUXILIARY SYSTEM 149A, 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)
30) VALVE	ANDERSON GREENWOOD	N14691	N/A	IC-PSH-1N018	1982	REPLACEMENT	YES
31) VALVE	ANDERSON GREENWOOD	N14691	N/A	IC-PSH-1N018	1982	REPLACED	YES
32) VALVE	ANDERSON GREENWOOD	N940548	N/A	IC-PSH-1N018	1994	REPLACEMENT	YES
33) VALVE DISC	PP&L	E5854-27-2	N/A	HV151F024B	1977	REPLACED	YES
34) VALVE DISC	PP&L	1	N/A	HV151F024B	1985	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/24/00

Sheet 5 of 5

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

Unit: ONE

SEE LIST BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR POOL SPRAY, PUMPS AND AUXILIARY SYSTEM 149A, 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)
1-2	S90745	99-149-003	HV151F017B, REPLACED STEM/PLUG ASSEMBLY	NON VT-2 PER MI-PS-008	1980 ED WIN '80 ADD
3-4	S90940	99-149-004	HV151F017A, REPLACED STEM/PLUG ASSEMBLY	NON VT-2 PER MI-PS-008	1980 ED WIN '80 ADD
5-8	S90938	99-149-005	HV151F017B, REPLACED STEM/PLUG ASSEMBLY	NON VT-2 PER MI-PS-008	1980 ED WIN '80 ADD
9-12	105686	99-145-015	REMOVED & REINSTALLED SMALL PIPE HANGER CLIPS	N/A	71 ED WIN '72 ADD
13-18	105686	99-149-016	1P202B, REPLACED PUMP SUB-ASSEMBLY, SEAL, & ASSOCIATED BOLTING WITH NEW (DISCHARGE HEAD NOT REPLACED)	VT-2 PER SE-149-301 TEMP 65°F/ PRESS 285 PSIG	1968 PUMP & VALVE CODE
19-20	215801 & 215802	99-149-017 & 99-149-018	GBB112-2 FLANGE M1,M2, M3 & M4 REPLACED BOLTING WITH NEW	NON VT-2 PER MI-PS-008	71 ED WIN '72 ADD
21-22	215798 & 215799	99-149-019 & 99-149-020	GBB112-1 FLANGE M1,M2, M3 & M4 REPLACED BOLTING WITH NEW	NON VT-2 PER MI-PS-008	71 ED WIN '72 ADD
23	234282	00-149-004	HV-151F024A, REMOVAL & REINSTALLATION OF TACK WELD	NON VT-2 PER MI-PS-008	71 ED WIN ' 72 ADD CC 1516-1, 1534
24	234749	00-149-006	HV-151F024B, BASEMETAL BUILD-UP OF VALVE BODY BY WELDING	NON VT-2 PER MI-PS-008	71 ED WIN ' 72 ADD CC 1516-1, 1534
25	234745	00-149-007	HV-151F024A, BASEMETAL BUILD-UP OF VALVE BODY BY WELDING	NON VT-2 PER MI-PS-008	71 ED WIN ' 72 ADD CC 1516-1, 1534
26	242019	00-149-008	GBB109-H35, REMOVED & REINSTALLED TACK WELD	VT-3 INSPECTION OF SUPPORT	71 ED WIN '72 ADD
27-32	233577	00-149-010	IC-PSH-1N018, REPLACED VALVE & ASSOCIATED FITTINGS WITH NEW (See Remarks Section 9)	NON VT-2 PER MI-PS-008	ORIG. VALVE '74ED NO ADD. REPLACEMENT VALVE '71 ED W '73ADD
33-34	246691	00-149-015	HV-151F024B, REPLACED VALVE DISC & TACK WELDED SHIM PACK	NON VT-2 PER MI-PS-008	VALVE 71 ED WIN ' 72 ADD CC 1516-1, 1534; REPLACE DISC '71 ED WIN '72 ADD

(2) 46445 PR11F43

FORM N-2 NPT CERTIFICATE HOLDER'S DATA REPORT FOR NUCLEAR PARTS AND APPURTENANCES*

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

1. (a) Manufactured by CONTROL COMPONENTS INC., 2567 S.E. MAIN ST, IRVINE, CALIF.
(Name and address of NPT Certificate Holder)

(b) Manufactured for PENNSYLVANIA POWER & LIGHT, ALLENTOWN, PENNSYLVANIA
(Name and address of N Certificate Holder to whom Data Report is to be furnished)

2. Identification Certificate Holder's Serial No. of Part 1 & 2 CRN N/A Nat'l. Bd. No. N/A Year 1984
(a) Constructed According to Drawing No. 127001005 Drawing Prepared by CONTROL COMPONENTS INC
(b) Description of Part Inspected PLUG
(c) Applicable ASME Code: Section III, Edition 1980 Addenda date W'80 Code No. N/A Class 2

3. Remarks: RESIDUAL HEAT REMOVAL STATION
(Brief description of the work performed and its relation to the overall component and system)

C.C.I. WORK ORDER# 381571
C.C.I. M.O.# 98910

MATERIAL	TENSILE STRENGTH (MIN. OF SPECIFIED RANGE)	NOMINAL THICKNESS	DIAMETER	LENGTH
SA-182-F6a CLASS 1	70 K.S.I.	1.74"	16.1"	16.1"

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

4. Shell: Material N/A (Spec. & Grade No.) T.S. N/A (Min. of Range Specified) Nominal Thickness N/A in. Corrosion Allowance N/A in. Dia. N/A in. N/A in. Long. N/A in. N/A in.

5. Seams: Long N/A H.T.? N/A R.T. N/A Efficiency N/A % Girth N/A H.T.? N/A R.T. N/A No. of Courses N/A

6. Heads: (a) Material N/A T.S. N/A (b) Material N/A T.S. N/A

Location (Top, Bottom, Ends)	Thickness	Crown Radius	Knuckle Radius	Skirt Length	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Sidewall Slope (Cone or Conical)
(a) N/A								
(b) N/A								

If removable, bolts used N/A (Number, Size, Dia., T.S., Spec. Number) Other fastening N/A (Specify Type)

7. Jacket Closure: N/A (Describe type of closure, i.e. full flange, partial flange, welded, welded & bolted, etc.)

8. Design pressure 1500 psi at 565 °F Drop Weight N/A Charpy Impact N/A ft-lb at temp. of N/A °F

Items Sand 10 to be completed for tube sections

9. Tube Sheets: Stationary, Material N/A (Spec. & Grade No.) Dia. N/A (Min. of Range Specified) Thickness N/A in. Attachment N/A (Weld, Bolt, etc.)

Floating, Material N/A Dia. N/A Thickness N/A in. Attachment N/A

10. Tubes: Material N/A O.D. N/A in. Thickness N/A inches Gauge Number N/A Type N/A (Seamless, Welded, etc.)

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

11. Shell: Material N/A (Spec. & Grade No.) T.S. N/A (Min. of Range Specified) Nominal Thickness N/A in. Corrosion Allowance N/A Dia. N/A in. N/A in. Long. N/A in. N/A in.

12. Seams: Long N/A H.T.? N/A R.T. N/A Efficiency N/A % Girth N/A H.T.? N/A R.T. N/A No. of Courses N/A

Heads: (a) Material N/A (b) N/A (c) N/A

Location	Thickness	Stress Relieved	Heating Method	Original Form	Crown Arm Angle	Homogenized Relieved	Pad Element	Data to Plate Code or Code
(a) Top, bottom, ends	N/A							
(b) Channel	N/A							

If removable, bolts used (a) N/A (b) N/A (c) N/A Other fastening N/A

14. Design pressure N/A psi at N/A °F Drop Weight N/A Charpy Impact N/A ft-lb at temp of N/A °F

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number N/A Size N/A Location N/A

16. Nozzles:

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

17 Inspection Manholes, No. N/A Size Location

Openings: Handholes, No. N/A Size Location

Threaded, No. N/A Size Location

Supports: Skirt N/A Legs N/A Legs N/A Other N/A Attached N/A

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 December 11 19 84 Signed CONTROL COMPONENTS INC. By R. Z. [illegible]

Certificate of Authorization Expires JUNE 7, 1985 Certificate of Authorization No. 1405

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at CONTROL COMPONENTS INC., IRVINE, CALIF.

Stress analysis report on file at N/A

Design specifications certified by Richard H. O'Connell Prof. Eng. State Penn. Reg. No. 33098-E

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

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by H.S.B.I. S.I. CO. of HARTFORD, CONNECTICUT have inspected the part of a pressure vessel described in this Partial Data Report on 12-11 19 84 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, express 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 12-11 19 84

[illegible] Co. 1494 Insp. 2675

99-
RIR-446

Form N-2

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

1. Manufactured and certified by *C C I, 22591 Avenida Empresa, Rancho Santa Margarita, CA 92688*
(name and address of Certificate Holder)

2. Manufactured for *PENNSYLVANIA POWER & LIGHT, ALLENTOWN, PA*
(name and address of purchaser)

3. Location of installation *SUSQUEHANNA STEAM ELECTRIC STATION UNITS 1 & 2, BERWICK, PA*
(name and address)

4. Type 127000168 (drawing no.) | SA479-410 CL1 (mat'l spec. no.) | 70,000 PSI (tensile strength) | N/A (CRN) | 1999 (year built)

5. ASME Code, Section III, Division 1: 1980 (edition) | WINTER 1980 (addenda date) | 2 (class) | N//A (Code Case no.)

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

7. Remarks

CCI W.O. 888221, PLUGS FOR P/N 35188-1

8. Nom. thickness (in.) 1.684 Min. design thickness (in.) 1.668 Dia. ID (ft & in.) 12.63" Length overall (ft & in.) 16.13"

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1.)	M300780 S/N 2	N/A
(2.)	M300781 S/N 1	N/A
(3.)	M300781 S/N 2	N/A
(4.)		
(5.)		
(6.)		
(7.)		
(8.)		
(9.)		
(10.)		
(11.)		
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(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.)		
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(42.)		
(43.)		
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(45.)		
(46.)		
(47.)		
(48.)		
(49.)		
(50.)		

10. Design pressure 1500 psi Temp. 565 Deg. F Hydro test pressure N/A at temp. Deg. f

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11. (2) information in items 1 through 4 on this DataReport 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 (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Form N-2

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

Certificate Holder's Serial No. M300780 through M300781

CERTIFICATE OF DESIGN

Design Specification certified by RICHARD H. O'CONNELL P.E. State PA Reg. no. 33098-E

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

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2696 Expires JUNE 7, 2000

Date 24 Mar 99 Name CCI (NPT Certificate Holder) Signed [illegible] (Authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of CALIFORNIA and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY of HARTFORD, CONNECTICUT have inspected these items described in this Data Report on 3-24-99, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with ASME 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 warranty, expressed or implied, concerning the equipment described in this Data Report. Futhermore, 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 3-24-99 Signed [illegible] (Authorized Inspector) Commissions Co 1494 Pa 2770 (Nat'l Bd. (including endorsement) and state or prov., and no.)

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

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

S/O: 16,0796,001 P/O: 4-48833-1

1. Manufactured and certified by ANDERSON, GREENWOOD & CO. A SUBSIDIARY OF KEYSTONE, INTERNATIONAL, INC. 3950 GREENBRIAR, STAFFORD, TX 77477 (name and address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT TWO N. NINTH ST, ALLENTOWN, PA 18101 (name and address of Purchaser)
3. Location of installation SUSQUEHANNA POWER STATION 5MI. NE OF BERWICK ON US RT 11, BERWICK, PA 18603 (name and address)
4. Model No., Series No., or Type H7HS-3TC-N Drawing N02-4038-831 Rev. K CRN N/A
5. ASME Code, Section III, Division 1: 1971 (edition) W-73 (addenda date) 2 (class) N/A (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 3/8 (in.) Outlet size 3/8 (in.)
7. Material: Body SA479-316 Bonnet SA479-316 Disk A276-316 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
N940544	N/A	A992-31	A950	13405
N940545	N/A	A369-21	A950	13405
N940546	N/A	A992-103	A950	13405
N940547	N/A	A992-84	A950	13405
N940548	N/A	A992-114	A950	13405
N940549	N/A	A992-73	A950	13405
N940550	N/A	A992-48	B223	700780
N940551	N/A	A992-126	B223	700780
N940552	N/A	A992-56	B223	700780
N940553	N/A	A992-24	B223	700780
N940554	N/A	A369-12	A949	13405

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Certificate Holder's Serial No. N940544-N940554

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

9. Cold working pressure 3600 psi at 100°F

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

11. Remarks:

CERTIFICATION OF DESIGN

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

Design Report certified by N/A P.E. State N/A Reg. no. N/A

CERTIFICATE OF COMPLIANCE

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

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

Date 11-29-94 Name ANDERSON, GREENWOOD & CO. (N Certificate Holder) Signed Joseph A. Parks (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 TEXAS and employed by C.U.I.C. of BOSTON, MA have inspected the pump, or valve, described in this Data Report on 11-29-94, 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 11-29-94 Signed [illegible] (Authorized Inspector) Commissions Tex 803 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

*CORRECTED COPY
4/20/82

Form NPV-1

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by ANDERSON, GREENWOOD & CO.; 5425 S. Rice Ave Houston, TX 77081 (Name & Address of Manufacturer) Order No. 94.0025.01

2. Manufactured for BECHTEL POWER CORP; P.O.BOX 384, BERWICK, PA 18603 (Name and Address) Order No. 8856-J-94-AC

3. Owner PENNSYLVANIA POWER AND LIGHT COMPANY

4. Location of Plant SUSQUEHANNA STEAM ELEC. STA 4.5 mi NE of Berwick, PA on Rt 11 N

5. Pump or Valve Identification 6190 thru 6193; 6195 thru 6198; 6200; 6202; 6204 thru 6207; 6210; 6212
INSTRUMENT VALVE
(Brief description of service for which equipment was designed)

(a) Drawing No. N02-4038-560 Prepared by ANDERSON, GREENWOOD AND COMPANY

(b) National Board No. N/A

6. Design Conditions 2350 (Pressure) psi 700 (Temperature) °F

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

Edition 1974, Addenda Date N/A, Case No. N/A

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	N/A			
(b) Forgings	N/A			

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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.

1027 592

Form NPV-1

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	N/A			
*(d) Other Parts				
	N02-4089-502	SA105	Republic	Body
	N02-1519-001	SA 213-316	Teledyne Columbia/Summerill	Tube
	N02-2534-001	SA 105	Republic	Packing Nut
	N02-2583-001	SA 105	Republic	Bonnet
	N02-8274-001	A 276-316	Ultraspherics	Ball

8. Hydrostatic test 5400 psi.

* CERTIFICATION OF DESIGN

Design information on file at Anderson, Greenwood and Company
Stress analysis report on file at Anderson, Greenwood and Company
Design specifications certified by Lawrence S. Loomer (1) Prof. Eng. State PA Reg. No. 19975-E
Stress analysis report certified by N/A (1) Prof. Eng. State N/A Reg. No. N/A
(1) Signature not required. List name only.

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

Date 4-23- 19 82 Signed Anderson, Greenwood & Co. (Manufacturer) By Grant C. Donegan

Certificate of Authorization No. 2203 expires 8/4/81

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Texas and employed by C.U.I.C. of Boston, Mass. have inspected the equipment described in this Data Report on 4-26 19 82, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 4-26 19 82

(Inspector) Commission Texas 1027 (National Board, State, Province and No.)

Form NPV-1

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anderson, Greenwood & Co; 5425 S. Rice Ave; Houston, TX 77081 (Name & Address of Manufacturer) Order No. 94.0254.01

2. Manufactured for Bechtel Power Corp; P.O.Box 384; Berwick, PA 18603 (Name and Address) Order No. 8856-J-94-AC

3. Owner Pennsylvania Power and Light Company

4. Location of Plant Susquehanna Steam Elec Sta; 4.5 mi NE of Berwick, PA on Rt. 11 N

5. Pump or Valve Identification N14667 thru N14691

Instrument Hand Valve
(Brief description of service for which equipment was designed)

(a) Drawing No. N02-4038-830 Prepared by Anderson, Greenwood and Company

(b) National Board No. N/A

6. Design Conditions 2350 (Pressure) psi 700 (Temperature) °F

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

Edition 1974, Addenda Date N/A, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings N/A			
(b) Forgings N/A			

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Form NPV-1

FORM NPV-1 (back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	N/A			
(d) Other Parts				
	N02-4089-502	SA 105	AGCO	Body
	N02-1519-002	SA 213-316	AGCO	Tube
	N02-2583-001	SA 105	AGCO	Bonnet
	N02-8274-001	A 276-316	Ultraspherics	Ball

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Anderson, Greenwood and Company

Stress analysis report on file at Anderson, Greenwood and Company

Design specifications certified by Lawrence S. Loomer (1) Prof. Eng. State PA Reg. No. 19875-E

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

(1) Signature not required. List name only.

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

Date 5/19 19 82 Signed Anderson, Greenwood & Co. (Manufacturer) By [signature]

Certificate of Authorization No. 2203 expires 8/4/84

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Texas and employed by C.U.I.C. of Boston, Mass. have inspected the equipment described in this Data Report on 5/19 19 82, 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 5/19 19 82

[signature] (Inspector) Commissions Tex. 673 Penn. UE 2072 (National Board, State, Province and No.)

Printed in U.S.A. (6/72)

This form (E37) is obtainable from the ASME, 345 E. 47th St., New York, N.Y. 10017

85-1302

50707 PRB1

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FORM N-2 NPT CERTIFICATE HOLDER'S 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., Allentown, PA 18101 (Susquehanna)
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 1 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D7764 Drawing Prepared by Anchor/Darling Valve Co.

(b) Description of Part Inspected Disc, Heat No. 421C2311 SA515-70

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Code No. N/A Class 2

3. Remarks 18"-300#-Globe
(Brief description of service for which component was designed)

A/DV S.O. P-7387-1

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 4/24, 19 85 Signed Anchor/Darling Valve Co. By R S Stannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/86 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. Stamp Reg. No.

Stress analysis report certified by Prof. Eng. Stamp 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 3-29 Th 4-24-85, 19__, and state 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 4-24, 19 85

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

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size of sheet is 8½" x 11", (2) information in items 1-3 on this report is included on each sheet, and (3) each sheet is numbered and reference made to this report.

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 Of 3

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RHR STEAM CONDENSING MODE SYSTEM 149B, 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 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) HEAT EXCH (BOLTING)	MLW	10638-Q	121	1E205A	1976	REPLACED	YES
2) HEAT EXCH (BOLTING)	PP&L	N/A	N/A	1E205A	2000	REPLACEMENT	NO
3) HEAT EXCH (BOLTING)	MLW	10640-Q	123	1E205B	1976	REPLACED	YES
4) HEAT EXCH (BOLTING)	PP&L	N/A	N/A	1E205B	2000	REPLACEMENT	NO
5) RELIEF VALVE (BASE)	CROSBY	N60597-00-0007	N/A	PSV-15106A	1979	REPLACED	YES
6) RELIEF VALVE (BASE)	CROSBY	N91850-42-0036	N/A	PSV-15106A	1998	REPLACEMENT	NO
7) HEAT EXCH (TUBE PLUGGING)	MLW	10638-Q	121	1E205A	1976	REPAIRED	YES

7. Description of Work: SEE ATTACHED LIST SHEET 3 OF 3.

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 2 of 3

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR STEAM CONDENSING MODE SYSTEM 149B, 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 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) HEAT EXCH (TUBE PLUGGING)	MLW	10640-Q	123	1E205B	1976	REPAIRED	YES
9) SMALL PIPE SUB-ASSMELBY (BOLTING)	BECHTEL	N/A	N/A	SPHRC135-3	1981	REPLACED	YES
10) SMALL PIPE SUB-ASSMELBY (BOLTING)	PP&L	N/A	N/A	SPHRC135-3	2000	REPLACEMENT	NO
11) STEM/DISC ASSEMBLY	YARWAY	A0049	N/A	HV151F103A	1977	REPLACED	YES
12) STEM/DISC ASSEMBLY	YARWAY	TEZG-A23	N/A	HV151F103A	1999	REPLACEMENT	YES
13) BACKSEAT BUSHING	YARWAY	A0049	N/A	HV151F103A	1977	REPAIRED	YES
14) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	HV151F103A	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 3 of 3

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

Unit: ONE

SEE LIST BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR STEAM CONDENSING MODE SYSTEM 149B, 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	CODE EDITION/ADD (ASME SECT. III)
1-2	190940	99-149-009	1E205A, REPLACED HEAT EXCHANGER SHELL SIDE BOLTING	HEAT EXCHANGER, 71 ED W 72 ADD
3-4	190953	99-149-010	1E205B, REPLACED HEAT EXCHANGER SHELL SIDE BOLTING	HEAT EXCHANGER, 71 ED W 72 ADD
5-6	102785	00-149-009	PSV15106A, REPLACED RELIEF VALVE BASE	ORIG VALVE & REPLACEMENT BASE, '74 ED/S'75 ADD.
7	102224	00-149-013	1E205A, REPAIRED HEAT EXCHANGER BY INSTALLING WELDED TUBE PLUGS	HEAT EXCHANGER, 71 ED W 72 ADD
8-10	102225	00-149-014	1E205B, REPAIRED HEAT EXCHANGER BY INSTALLING WELDED TUBE PLUGS. REPLACED SMALL PIPE BOLTING ON SPHRC-135-3	HEAT EXCHANGER, 71 ED W 72 ADD
11-14	246585	00-149-016	HV151F103A, REPLACED STEM/DISC AND BACKSEAT BUSHING	ORIG VALVE, '74 ED/W'74 ADD.DISC REPLACEMENT PART(S) '86/NO ADD.

WIP ORDER 5019652

SALES ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25	—	(50)	

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

*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

FTI OP SUP PBG

FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 * ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [signature] (Authorized Inspector) Commissions NB9541 'N' PA2389 (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

FTI OP SUP PBG

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/12/2000

Sheet 1 Of 4

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RHR STEAM CONDENSING MODE SYSTEM 149B, 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 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) STEM/DISC ASSEMBLY	YARWAY	6392	N/A	112F107A	1976	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	TEZG-A24	N/A	112F107A	1999	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	6392	N/A	112F107A	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	112F107A	1984	REPLACEMENT	NO
5) STEM/DISC ASSEMBLY	YARWAY	5853	N/A	112F108A	1976	REPLACED	YES
6) STEM/DISC ASSEMBLY	YARWAY	TEZG-A26	N/A	112F108A	1999	REPLACEMENT	YES
7) BACKSEAT BUSHING	YARWAY	5853	N/A	112F108A	1976	REPLACED	YES

7. Description of Work: SEE ATTACHED LIST SHEET 4 OF 4.

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 **REPLACEMENT** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date July 6, 20 00

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 3-31-00 to 5-5-00, 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.

[signature] Inspector's Signature

Commissions NB 7525 IB/VA PA 2159
National Board, State, Province, and Endorsements

Date July 10 20 00

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/12/2000

Sheet 2 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR STEAM CONDENSING MODE SYSTEM 149B, 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 ATTACHED SHEET 4 OF 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) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	112F108A	1984	REPLACEMENT	NO
9) STEM/DISC ASSEMBLY	YARWAY	6392	N/A	112F109A	1976	REPLACED	YES
10) STEM/DISC ASSEMBLY	YARWAY	TEZG-A21	N/A	112F109A	1999	REPLACEMENT	YES
11) BACKSEAT BUSHING	YARWAY	6392	N/A	112F109A	1976	REPLACED	YES
12) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	112F109A *	1984	REPLACEMENT	NO
13) VALVE	YARWAY	6425	N/A	112F110A	1976	REPLACED	YES
14) VALVE	FLOWSERVE	E-660A-1-20	N/A	112F110A	1999	REPLACEMENT	YES
15) BACKSEAT BUSHING	FLOWSERVE	E-660A-1-20	N/A	112F110A	1999	REPLACED	YES
16) BACKSEAT BUSHING	FLOWSERVE	E-660A-1-11 (REMOVED FROM VALVE)	N/A	112F110A	1999	REPLACEMENT	YES
17) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPHRC135-4	1982	REPLACED	YES
18) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPHRC135-4	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: PP&L, Inc. (Name) — Date: 06/12/2000

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 4

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — See Attached List (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR STEAM CONDENSING MODE SYSTEM 149B, 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 ATTACHED SHEET 4 OF 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) RELIEF VALVE (BASE)	CROSBY	N60598-00-0001	N/A	PSV-11213A	1979	REPLACED	YES
20) RELIEF VALVE (BASE)	CROSBY	N91854-35-0018	N/A	PSV-11213A	1996	REPLACEMENT	YES
21) RELIEF VALVE (BASE)	CROSBY	N60598-00-0002	N/A	PSV-11213B	1979	REPLACED	YES
22) RELIEF VALVE (BASE)	CROSBY	N91854-37-0020	N/A	PSV-11213B	1997	REPLACEMENT	YES

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

1. Owner: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/12/00

Sheet 4 of 4

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR STEAM CONDENSING MODE SYSTEM 149B, 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 (* SEE CODE EDITION BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	CODE EDITION/ADD (ASME SECT. III)
1-4	104904	99-149-011	112F107A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	ORIG VALVE, '74 ED/W'74 ADD.DISC '86/NO ADD.
5-8	104904	99-149-012	112F108A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	ORIG VALVE, '74 ED/W'74 ADD.DISC '86/NO ADD.
9-12	104904	99-149-013	112F109A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	ORIG VALVE, '74 ED/W'74 ADD.DISC '86/NO ADD.
13-18	104904	99-149-014	112F110A, REPLACED VALVE, ASSOC. PIPE & BACKSEAT BUSHING OF NEW REPLACEMENT VALVE	ORIG VALVE, '74 ED/W'74 ADD. REPLACEMENT & DONOR VALVE(S) '86 ED NO ADD
19-20	102320	00-149-011	PSV-11213A, REPLACED VALVE BASE	ORIG VALVE & REPLACEMENT BASE , '74 ED/S'75 ADD.
21-22	102321	00-149-012	PSV-11213B, REPLACED VALVE BASE	ORIG VALVE '74 ED/S'75 ADD.CC1567 REPLACEMENT BASE , '74 ED/S'75 ADD.

WIP ORDER 5019652 SALES ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25		(50)	

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

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

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FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 *ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [illegible] (Authorized Inspector) Commissions NB9541'N' PA2389 (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

FTI OP SUP PBG

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

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

1. Manufactured and certified by Flowserve Corp. 701 First Street, Williamsport, PA 17701 (name and address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Company Two North Ninth Street, Allentown, PA 18101 (name and address of Purchaser or Owner)
3. Location of installation Susquehanna Station, 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 (edition) N/A (addenda date) 1 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1" (in.) Outlet size 1" (in.)
7. Material: Body SA216-WCB Bonnet N/A Disk AMS-5387 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-660A-1-19	N/A	6	N/A	HT#1899
E-660A-1-20	N/A	20	N/A	HT#1899

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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 1" - 1500# Y-Globe Valve w/10" Tee Handle
Reference S.O. E-660A-1

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

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 8/25/99 Name Flowserve Corp. (N Certificate Holder) Signed R L Stannett (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 Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 2-19 thru 8-26, 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 8-26-99 Signed Charles Young (Authorized Inspector) Commissions Pennsylvania 2392 [Nat'l. Bd. (incl. endorsements) state or prov. and no.]

(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

1. Manufactured and certified by Flowserve Corp. 701 First Street, Williamsport, PA 17701 (name and address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Company Two North Ninth Street, Allentown, PA 18101 (name and address of Purchaser or Owner)
3. Location of installation Susquehanna Station 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 (edition) N/A (addenda date) 1 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1" (in.) Outlet size 1" (in.)
7. Material: Body SA216-WCB Bonnet N/A Disk AMS-5387 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-660A-1-9	N/A	1	N/A	HT #1899
E-660A-1-10	N/A	3	N/A	HT #1899
E-660A-1-11	N/A	4	N/A	HT #1899
E-660A-1-12	N/A	10	N/A	HT #1899
E-660A-1-13	N/A	11	N/A	HT #1899
E-660A-1-14	N/A	17	N/A	HT #1899
E-660A-1-15	N/A	19	N/A	HT #1899
E-660A-1-16	N/A	21	N/A	HT #1899
E-660A-1-17	N/A	22	N/A	HT #1899
E-660A-1-18	N/A	23	N/A	HT #1899

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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 1" - 1500# Y-Globe Valve w/10" Tee Handle

Reference S.O. E-660A-1

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

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. (N Certificate Holder) Signed R L Stannett (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 ~~Province~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 2/9 thru 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 (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

Charles Young

(1) For manually operated valves only.

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MA

Q.C.-392
SHEET 1 OF 2

FORM N-2, N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES
As Required by the Provisions of the ASME Code, Section III, Division 1 - Not to Exceed One Day's Production

1. Manufactured and certified by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093
(Name and Address of N Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. ALLENTOWN, PA
(Name and Address of Purchaser or Owner)

3. Location of Installation SUSQUEHANNA SES STOREROOM BERWICK, PA
(Name and Address)

4. --- (CRN) DS-C-60598 REV. D (Drawing No.) 1996 (Year Built)

5. ASME SB 164 CL. A (Material Spec No.) 80,000 (Tensile Strength)

6. -- (Dia. ID) -- (Length Overall) Nom. Thickness(in.) -- Inch Min. Design Thickness -- Inch

7. --- (Design Pressure(PSI)) --- °F (Temperature)

Hydrostatic Test (psig) 675 at 70 °F
(When applicable)

8. Fabricated in accordance with Const. Spec.(Div. 2 only) --- (No.) Revision --- Date ---

9. ASME Code, Section III, Division 1: 1974 (Edition) SUMMER 1975 (Addenda Date) 2 (Class) --- (Code Case No.)

10. Remarks

11. When applicable, Certificate Holders' data reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. Numerical Order		Part or Appurtenance Serial Number	National Board No. Numerical Order
(1)	N91854-35-0018 ✓	--	(11)		
(2)			(12)		
(3)			(13)		
(4)			(14)		
(5)			(15)		
(6)			(16)		
(7)			(17)		
(8)			(18)		
(9)			(19)		
(10)			(20)		

Manufacturer Serial No. N91854-35-0018

Q.C.-392
SHEET 2 OF 2

CERTIFICATE OF SHOP COMPLIANCE

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

Date 20 DEC 96 Signed Crosby Valve & Gage Company by [signature]
(NptCertificate Holder) (Authorized Representative)

NV Certificate of Authorization No. N-1877 Expires 30 SEP 98
(Date)

CERTIFICATE OF DESIGN

Design specification certified by* AUTHUR R. SCHICK
PE State CA Reg No. 13898
Design Report Certified by* ---
PE State --- Reg No. ---

*Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by * Protection Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on December 20, 1996 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 warrant, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 12-20, 1996

Signed [signature] Commissions MA-1418
(Inspector) (Nat'l. Bd., State, Prov. and No.)

*Factory Mutual Systems

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MA

Q.C.-392
SHEET 1 OF 2

FORM N-2, N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES
As Required by the Provisions of the ASME Code, Section III, Division 1 - Not to Exceed One Day's Production

1. Manufactured and certified by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093
(Name and Address of N Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT CO.
(Name and Address of Purchaser or Owner)

3. Location of Installation BERWICK, ME
(Name and Address)

4. -- (CRN) DS-C-60598 REV.D (Drawing No.) 1997 (Year Built)

5. ASME SB164UNS-N04400 (Material Spec No.) 80,000 (Tensile Strength)

6. --- Dia. ID --- Length Overall Nom. Thickness(in.) -- Inch Min. Design Thickness -- Inch

7. --- Design Pressure(PSI) --- °F Temperature

Hydrostatic Test (psig) 675 at 70 °F
(When applicable)

8. Fabricated in accordance with Const. Spec.(Div. 2 only) --- (No.) Revision --- Date ---

9. ASME Code, Section III, Division 1: 1974 (Edition) SUMMER 1975 (Addenda Date) 3 (Class) -- (Code Case No.)

10. Remarks

11. When applicable, Certificate Holders' data reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. Numerical Order		Part or Appurtenance Serial Number	National Board No. Numerical Order
(1)	N91854-37-0020	--	(11)		
(2)			(12)		
(3)			(13)		
(4)			(14)		
(5)			(15)		
(6)			(16)		
(7)			(17)		
(8)			(18)		
(9)			(19)		
(10)			(20)		

Manufacturer Serial No. N91854-37-0020

CERTIFICATE OF SHOP COMPLIANCE

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

Date 8OCT97 Signed Crosby Valve & Gage Company by B A Crosby
(NptCertificate Holder) (Authorized Representative)

NV Certificate of Authorization No. N-1877 Expires 30 SEP 98
(Date)

CERTIFICATE OF DESIGN

Design specification certified by* AUTHUR R. SCHICK
PE State CA Reg No. 13898
Design Report Certified by* ---
PE State --- Reg No. ---

*Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by * Protection Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on October 8, 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. 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 warrant, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-8, 1997.
Signed [illegible] Commissions MA-1418
(Inspector) (Nat'l. Bd., State, Prov. and No.)
*Factory Mutual Systems

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 Of 1

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

Unit: ONE

W/O 244606 CRF # 00-149-020 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RHR 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 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 DISC	ANCHOR DARLING	E5854-5-2	N/A	HV151F021B	1976	REPLACED	YES
2) VALVE DISC	ANCHOR DARLING	U2249	N/A	HV151F021B	1985	REPLACEMENT	YES
3) VALVE DISC	ANCHOR DARLING	U2249	N/A	HV151F021B	1985	REPAIRED	YES
4) VALVE (PIPE PLUG)	ANCHOR DARLING	E5854-5-2	N/A	HV151F021B	1976	REPLACED	YES
5) VALVE (PIPE PLUG)	BONNEY FORGE	HT CD # 9162	N/A	HV151F021B	1998	REPLACEMENT	NO

7. Description of Work: REPLACED DISC & PIPE PLUG. NEW DISC WAS FITTED TO VALVE.

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. ANCHOR DARLING VALVE CODE OF CONSTRUCTION
Applicable Manufacturer's Data Reports to be attached

1971 EDITION WINTER 72 ADDENDA CC 1516-1 & 1534. REPLACEMENT DISC 1974 EDITION

SUMMER 1975 ADDENDA.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date June 29, 19 2000

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 4-9-2000 to 4-14-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date JUNE 29 19 2000

FORM N-3 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provisions 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 Illinois Power Co., P.O. Box 511, Decatur, IL 62525
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part U2249- Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D7813 R/F Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected 12"-300-FW Disc, Heat No. 1054 SA216-WCB

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date Sum '75, Code No. N/A Class 2

3. Remarks A/OV S.O. & Item P-4888-2
(Brief description of service for which component was designed)
No Hydrotest 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 10/18 19 85 Signed Anchor/Darling Valve Co. By D. Wright
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/86 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 6-24 thru 10-18-85 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 10-18 19 85 #16754

Russell P. Montgomery Commissions Pennsylvania NC972
Russell P. Montgomery National Board, State, Province and No.

*Supplementary sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 at top of this form.

(10/77) This form (E00004) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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

1. Owner: PP&L, Inc. (Name) — Date: 06/26/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 Of 1

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — W/O 188385 & 188260 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

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

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) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDCA110-2	1982	REPAIRED	YES
2) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPDCA110-3	1991	REPAIRED	NO

7. Description of Work: REMOVED & REWELDED SOCKET WELDS WITH EXTENDED LEG FILLETS

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 _____

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** (repair or replacement) Conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date July 3 19 2000

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 4-7-00 to 5-5-00, 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.

[signature] Commissions NB 7525 IBNA PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date July 10 19 2000

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

1. Owner: PP&L, Inc. (Name) — Date: 06/26/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 Of 1

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — W/O S90534, CRF 99149001 & 99149002 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RESIDUAL HEAT REMOVAL SYSTEM 149G, CLASS II

5. (a) Applicable Construction Code: III 19 80 Edition, thru S'82 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	EDWARDS	44AEQ	N/A	151F089B	1992	REPLACED	YES
2) VALVE DISC	EDWARDS	21AEQ (REMOVED FROM VALVE)	N/A	151F089B	1992	REPLACEMENT	YES
3) VALVE SEAT	EDWARDS	44AEQ	N/A	151F089B	1992	REPAIRED	YES
4) VALVE DISC	EDWARDS	18 AEQ	N/A	151F090B	1992	REPLACED	YES
5) VALVE DISC	EDWARDS	16AEQ (REMOVED FROM VALVE)	N/A	151F090B	1992	REPLACEMENT	YES
6) VALVE SEAT	EDWARDS	18 AEQ	N/A	151F090B	1992	REPAIRED	YES

7. Description of Work: REPLACED VALVE DISC'S & RESTORED SEAT SURFACE BY LAPPING

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** (repair or replacement) Conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 3 ~~19~~ 2000

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 2-12-99 to 5-25-00, 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.

[signature] Inspector's Signature

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

Date July 10 ~~19~~ 2000

CIC 144 G11 V48

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 C92-152-021 8

1. Manufactured by EDWARD VALVES INC., 1900 S. SAUNDERS ST., RALEIGH, NC 27603 02
   (Name and Address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO., P.O. BOX 467, BERWICK, PA 18603 02
   (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 2 (inch) Outlet Size 2 (inch)

	(a) Model No., Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1)	B36274	14 AEQ	N/A	D326100698/D	2	N/A	1992
(2)		15					
(3)		16					
(4)		17					
(5)		18					
(6)		19					
(7)		20					
(8)		21					
(9)		22					
(10)	B36274	23 AEQ	N/A	D326100698/D	2	N/A	1992

5. 2" CHECK VALVE B36274T2
   (Brief description of service for which equipment was designed)
   S.O. 36-22940-01
6. Design Conditions 2665 (Pressure) psi 700 (Temperature) °F or Valve Pressure Class 1500 (1)
7. Cold Working Pressure 3705 psi at 100°F.
8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
D	A567GR1/A732GR21	CONSOLIDATED CAST.	DISK
(b) Forgings			
JWJA	SA105	TRINITY FORGE	BODY
23442-201	SA696 GRC	COULTER STEEL	COVER

(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.

(10/77) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NPV-1 (Back)

ITEM 1, PAGE 1 VALVE S/N 34

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
(d) Other Parts			

9. Hydrostatic test 5575 psi. Disk Differential test pressure 4100 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 1980, Addenda SUMMER 1982 (Date). Code Case No. N/A Date 3/11/92

Signed EDWARD VALVES INC. (N Certificate Holder) by [signature]

Our ASME Certificate of Authorization No. N-1562 to use the "N" (N) symbol expires 11/26/98 (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 HEBER JR

PE State 20118 E Reg. No. PA

Stress analysis certified by (1)

PE State Reg. No.

(1) Signature not required. List name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of 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 19 92

(Inspector) Commissions NC1083 (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 Of 2

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

Unit: ONE

W/O 104992 & 253137 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RCIC TURBINE & AUX. SYSTEM 150B, 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 Sheet 2)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) STEM/DISC ASSEMBLY	MASONIELAN	N-00186-12-1	N/A	HV149F088	1978	REPLACED	YES
2) STEM/DISC ASSEMBLY	MASONIELAN	1810-0-1031-1	N/A	HV149F088	1992	REPLACEMENT	YES
3) VALVE BONNET	ANCHOR DARLING	E-5853-1-1	N/A	HV149F007	1976	REPLACED	YES
4) VALVE BONNET	ANCHOR DARLING	S/N 6	N/A	HV149F007	1990	REPLACEMENT	YES

7. Description of Work: SEE SHEET 2

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE SHEET 2)
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** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29, 19 2000

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 4-16-2000 to 4-18-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date JUNE 29 19 2000

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

1. Owner: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 2 of 2

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

Unit: UNIT ONE

SEE BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RCIC TURBINE & AUX. SYSTEM 150B, 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(S)	WORK AUTH./ WORK ORDER	CODE PROG FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS	CODE EDITION/ADD (ASME SECT. III)
1-2	104992	00-150-003	HV149F088, REPLACED VALVE STEM/DISC ASSEMBLY	NON VT-2 PER MI-PS-008	VALVE & REPLACEMENT STEM/DISC 1974 ED WINTER 1975 ADDENDA
3-4	253137	00-150-004	HV149F007,REPLACED VALVE BONNET	VT-2 PER SE-000-017 TEMP 543°F/ PRESS 1045 PSIG	VALVE '71 ED WIN 72 ADD CC1516-1,1534,1535-2,1334-2 REPLACEMENT BONNET VALVE '71 ED WIN 72 ADD NO CC

FORM N-2 CERTIFICATE HOLDER'S DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

N-360186-2

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 Masoneilan-Dresser Industries, 85 Bodwell St., Avon, MA 02322 (name and address of NPT Certificate Holder)

2. Manufactured for Pennsylvania Power & Light, Two North Ninth St., Allentown, PA 18101 (name and address of Purchaser)

3. Location of installation Pennsylvania Power & Light, Susquehanna Steam Electric Station, 5 mi NE of Berwick on US Rt. 11 PO Box 467, Berwick, PA 18603 (name and address)

4. Type: P9899 Rev. B (drawing no.) | Stellite 6B (mat'l spec. no.) | 152000 PSI (tensile strength) | NA (CRN) | 1992 (year built)

5. ASME Code, Section III, Division 1: 1974 (edition) | Winter 1975 (addenda date) | 1 (class) | NA (Code Case no.)

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

7. Remarks: Replacement Part for S/N N00186-5,-6,-7,-8,-9,-10,-12,-14

Qty. (1)

Masoneilan Part #013431-135-1L2

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

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

Part or Appurtenance Serial Number Heat Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 1810-0-1031-1		(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 1350 psi. Temp. 585 °F. Hydro. test pressure NA (when applicable) at temp. °F

* 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.

(12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

No. 92-02055
RECORD PACKAGE
PAGE 6 OF 14

FORM N-2 Basic Report

Certificate Holder's Serial No. N360186-2 through

CERTIFICATION OF DESIGN

Design specifications certified by Sidney Copland (when applicable) P.E. State PA Reg. no. 19877-E

Design report* certified by NA (when applicable) P.E. State NA Reg. no. NA

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this ~~these~~ 1" 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 8-19-92

Date 2/28/92 Name Masoneilan-Dresser Industries (NPT Certificate Holder) Signed Joseph A DeStefano (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 FEB. 29 1992, 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 FEB 29 1992 Signed [illegible] Evans (Authorized Inspector) Commissions NA-1222/WC-2514 PA (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

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

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

1. (a) Manufactured by 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 - 6 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D8118 Drawing Prepared by Anchor/Darling Valve Comp

(b) Description of Part Inspected Bonnet, Heat No. A173 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. N/A Class 1

3. Remarks: 4"-900#-Gate
(Brief description of service for which component was designed)

A/DV Shop Order EB602-3

Reference Bonnet Assembly C12614

Note: No Bonnet Hydro Performed

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

Date 10/29 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 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 ~~XXXXXXX~~ 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 8-13-90 thru 10-30-90 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 10-30 19 90

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

Charles Young

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-2 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at item 3, "Remarks".

90-133

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 3

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

Unit: ONE

See Sheet 3 of 3 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RCIC TURBINE & AUX. (Steam Loops & Flow Control) 150B, 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)
1) STEM/DISC ASSEMBLY	YARWAY	5950	N/A	1RV-PI-1R003/ 1RV-PT-1N007	1976	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	AV94-B20	N/A	1RV-PI-1R003/ 1RV-PT-1N007	1998	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	5950	N/A	1RV-PI-1R003/ 1RV-PT-1N007	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-PI-1R003/ 1RV-PT-1N007	1998	REPLACEMENT	NO
5) RUPTURE DISC	BS&B SAFETY SYS	HT # 886798	N/A	PSE1D001	1984	REPLACED	NO
6) RUPTURE DISC	BS&B SAFETY SYS	HT # 886798	N/A	PSE1D001	1984	REPLACEMENT	NO
7) RUPTURE DISC	BS&B SAFETY SYS	HT # 886798	N/A	PSE1D002	1984	REPLACED	NO

7. Description of Work: SEE SHEET 3

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ (SEE SHEET 3)
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED. ORIGINAL YARWAY VALVE CODE OF CONSTRUCTION
Applicable Manufacturer's Data Reports to be attached

1974 EDITION WINTER 1974 ADDENDA. YARWAY REPLACEMENT PARTS 1986 EDITION NO .

ADDENDA. BS&B SAFETY SYSTEM RUPTURE (ORIGINAL & REPLACEMENT) 1971 EDITION

SUMMER 1973 ADDENDA.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29, 2000

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 1-8-99 to 4-21-00, 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.

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

Date JUNE 29 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 2 of 3

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

Unit: ONE

See Sheet 3 of 3 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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, * 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) RUPTURE DISC	BS&B SAFETY SYS	886798	N/A	PSE1D002	1984	REPLACEMENT	NO
9) STEM/DISC ASSEMBLY	YARWAY	5524	N/A	149022	1976	REPLACED	YES
10) STEM/DISC ASSEMBLY	YARWAY	TEZG-A33	N/A	149022	1999	REPLACEMENT	YES
11) BACKSEAT BUSHING	YARWAY	5524	N/A	149022	1976	REPLACED	YES
12) BACKSEAT BUSHING	YARWAY	Ht # 5293	N/A	149022	1984	REPLACEMENT	NO
13) STEM/DISC ASSEMBLY	YARWAY	5520	N/A	149014	1976	REPLACED	YES
14) STEM/DISC ASSEMBLY	YARWAY	TEZG-A18	N/A	149014	1999	REPLACEMENT	YES
15) BACKSEAT BUSHING	YARWAY	5520	N/A	149014	1976	REPLACED	YES
16) BACKSEAT BUSHING	YARWAY	Ht # 5293	N/A	149014	1984	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 3 of 3

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

Unit: UNIT ONE

SEE BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RCIC TURBINE & AUX. (Steam Loops & Flow Control) 150B, 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 AUTH./ WORK ORDER	CODE PROG FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	S83604	98-150-003	1RV-PI-1R003/1RV-PT-1N007, REPLACED STEM/DISC ASSEMBLY & BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
5-8	103139	99-150-001	PSE-1D001 & PSE-1D002, REPLACED RCIC TURBINE RUPTURE DISCS DURING PM.	VT-2 PER SE-150-301 TEMP 77°F/ PUMP DISCH PRESS @ 1200 PSIG
9-12	232959	00-150-001	149022 REPLACED STEM/DISC ASSEMBLY & BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
13-16	232959	00-150-002	149014 REPLACED STEM/DISC ASSEMBLY & BACKSEAT BUSHING	NON VT-2 PER MI-PS-008

BS&B

SAFETY SYSTEMS

CUSTOMER: Pennsylvania Power & Light
P.O. #: 4-32842-1

FORM NR-1
DATA REPORT OF RUPTURE DISKS
As Required by the Provisions of the
ASME Code Rules, Section III, Div. 1

1. Manufactured by: BS&B Safety Systems, Inc., Tulsa, Oklahoma
(Name and address of Manufacturer)

IDENTIFICATION OF RUPTURE DISK

2. Type of Style: BV Lot No.: 84090018-1

3. Disk Dimensional Characteristics:

Size: 8" Capacity 102485 SCFM Air

4. Material Specification: ASTM A167 316 SST

5. Drawing No.: N/A

6. Burst Pressure: 156.5 PSIG Max. 141.6 PSIG Min.

7. Coincident Disk Temperature: 370 Deg F

8. Element used in test: Air

9. Cyclic Test Results: N/A
(if required)

CERTIFICATION

10. Place of Test: Tulsa, Oklahoma Date of Test: 10/30/84

WE CERTIFY THE ABOVE DATA TO BE CORRECT AND THAT THESE DISKS HAVE BEEN MANUFACTURED AND TESTED TO THE REQUIREMENTS OF THE ASME CODE.

DATE: 10/30/84 ISSUED BY: BS&B Safety Systems, Inc.

APPROVED BY: Jay B. Vance, Quality Control Manager
Jay B. Vance

No. of Pieces Shipped: 20

Actual Burst Test Results: 185 PSIG @ 72 Deg F
148, 150 PSIG @ 370 Deg F

No. 84-2447
RECORD PACKAGE
PAGE 4 OF 14

BS&B SAFETY SYSTEMS, INC. • 7455 EAST 46th STREET • P. O. BOX 470590 • TULSA, OKLAHOMA 74147-0590 • PHONE 918/622-5950
TELEX 49-2479 BS&B GEN TUL • FAX 918/665-3905

BS&B SAFETY SYSTEMS, INC. • 7455 EAST 46th STREET • P. O. BOX 470590 • TULSA, OKLAHOMA 74147-0590 • PHONE 918/622-5950
TELEX 49-2479 BS&B GEN TUL • FAX 918/665-3905

B 5 4 1 3 4 1 2 1 . 0 9
(19) 10896 5Y 181

BS&B

SAFETY SYSTEMS

Oct. 30, 1984

CUSTOMER: PENNSYLVANIA POWER & LIGHT

SUBJECT: Your Purchase Order Number: 4-32842-1
BS&B S.O. Number: 84090018
BS&B Lot Number: 84090018-1

CERTIFICATE OF CONFORMANCE
ASME SECTION III
RUPTURE DISK

We certify that the material covered by this report has been manufactured, inspected, and tested in accordance with the ASME Section III Nuclear Code and that test results and mill test reports are on file subject to examination. The applicable ASME Section III paragraphs are as follows: NC-2000, NC-7830, and NC-7920 with 1971 Edition, 1973 Summer Addenda, Class 2.

STAMP DISK TAB: 10896

ATTACHMENTS: BURST TEST CERTIFICATE (NR-1 FORM)
MILL TEST REPORT (HT #886798) - DISK
MILL TEST REPORT (HT #877488) - VACUUM SUPPORT
MATERIAL VERIFICATION (MIDSTATES PO #91745 BI:B1634)

DISK DATE OF MANUFACTURE - OCTOBER 10, 1984

IF STORED IN A DRY, PROTECTED, NON-CORROSIVE ENVIRONMENT, AND IF STORED IN THE ORIGINAL UNOPENED PACKAGING, THESE RUPTURE DISKS AND VACUUM SUPPORTS HAVE AN INDEFINITE SHELF LIFE.

BS&B SAFETY SYSTEMS, INC.

Jay B. Vance

Jay B. Vance
Quality Control Manager

No. 84-3447
RECORD PAGE
PAGE 3 OF 4

BS&B SAFETY SYSTEMS, INC. • 7455 EAST 46th STREET • P.O. BOX 470580 • TULSA, OKLAHOMA 74147-0580 • PHONE 918/622-5950
TELEX 49-2479 BS&B GEN TUL • FAX 918/665-3905

WIP ORDER 5019652 S'''S ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25	—	(50)	

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

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

FTI OP SUP PBG

FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 *ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 ·s of any kind arising from or connected with this inspection.

*FACTORY MUTUAL ENGINEERING ASSOCIATION

Date 05/28/99 Signed [illegible] (Authorized Inspector) Commissions NB9541'N' PA2389 (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

FT
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WIP ORDER 5006907 SALES ORDER NO 2003656

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1998 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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)	FTI OP SUP PBG
(21) AV94-B21	—	(46)	
(22) AV94-B22	—	(47)	
(23) AV94-B23	—	(48)	
(24) AV94-B24	—	(49)	
(25) AV94-B25	—	(50)	

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

*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) (when applicable) P.E. State _____ Reg. no. _____

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

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 (NPT Certificate Holder) Signed F. W. Peszka (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

5/21/98 Signed _____ (Authorized Inspector) Commissions PA2389 'N' 'S' (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 1

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

Unit: ONE

W/O 102359, 00-152-001 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

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

5. (a) Applicable Construction Code: III 19 74 Edition, thru W'75 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 BONNET	MASONEILAN	N00186-5-1	N/A	HV155F100	1978	REPLACED	YES
2) VALVE BONNET	MASONEILAN	N00186-522	N/A	HV155F100	1985	REPLACEMENT	YES
3) VALVE (PLUG/STEM ASSEM)	MASONEILAN	N00186-5-1	N/A	HV155F100	1978	REPLACED	YES
4) VALVE (PLUG/STEM ASSEM)	MASONEILAN	1810-1-1035-8	N/A	HV155F100	1997	REPLACEMENT	YES

7. Description of Work: REPLACED BONNET & PLUG/STEM ASSEMBLY

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ (NON VT-2 PER MI-PS-008)
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORTS 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** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29, 19 2000

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 3-20-00 to 4-18-00, 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.

[signature] Inspector's Signature

Commissions NB 7525 IBNA PA2159
National Board, State, Province, and Endorsements

Date JUNE 29, 19 2000

8 9 1 0 7 1 3 1 0 3 8 2

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 Masoneilan-Dresser Industries 85 Bodwell St., Avon, Ma. 02322
(Name and address of Manufacturer of part)

(b) Manufactured for Pennsylvania Power & Light, 2North Ninth St., Allentown, Pa. 18101
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part N00186-522 Nat'l Bd. No. NA

(a) Constructed According to Drawing No. P10873 Drawing Prepared by Masoneilan

(b) Description of Part Inspected 1" Bonnets (Qty.3) P/N 013041-653-1K8 Heat No. 43616 Mark No. D7-1A,D7-2A,D7-4A

(c) Applicable ASME Code: Section III, Edition 1974, Addenda date W 1975, Case No. NA Class 1

3. Remarks: Replacement For Masoneilan Valve Serial No.s N00186-8,-9,-10,-14,-15
(Brief description of service for which component was designed)

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 Dec. 20, 19 85 Signed Masoneilan-Dresser (Manufacturer) By D. Randall Q.A. Mgr.

Certificate of Authorization Expires 8/19/86 Certificate of Authorization No. N-1837

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at Masoneilan-Dresser Industries

Stress analysis report on file at Masoneilan-Dresser Industries

Design specifications certified by Sidney A. Copland Prof. Eng. State Pa. Reg. No. 19877-E

Stress analysis report certified by Gerald W. Austin Prof. Eng. State Ma. Reg. No. 28243

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 Ma. and employed by H.S.B.I.&I. Co. of Hartford, Ct. have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on December 20 1985, 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 December 20 19 85

John B. Caron
Inspector's Signature

Commissions Mass 871 - Pa WC 2846
National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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".

8 9 1 4 3 1 1 0 4 0 4

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

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

N 398186-1

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 (drawing no.) Haynes Alloy 6B (mat'l. spec. no.) 139,291 PSI (tensile strength) N/A (CRN) 1997 (year built)
5. ASME Code, Section III, Division 1: 1974 Edition (edition) Winter 1975 (addenda date) 1 (class) N/A (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision N/A Date N/A
7. Remarks: Masoneilan Part No. 013431-135-1L2 - 3/4" & 1"

   Spare Part for S/N N00186-5,6,7,8,9,10,12,14,15

   Qty. (2)
8. Nom. thickness (in.) N/A Min. design thickness (in.) N/A Dia. ID (ft & in.) N/A Length overall (ft & in.) N/A
9. When applicable, Certificate Holders' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 1810-1-1035-7		(26)	
(2) 1810-1-1035-8		(27)	
(3)		(28)	
(4)		(29)	
(5)		(30)	
(6)		(31)	
(7)		(32)	
(8)		(33)	
(9)		(34)	
(10)		(35)	
(11)		(36)	
(12)		(37)	
(13)		(38)	
(14)		(39)	
(15)		(40)	
(16)		(41)	
(17)		(42)	
(18)		(43)	
(19)		(44)	
(20)		(45)	
(21)		(46)	
(22)		(47)	
(23)		(48)	
(24)		(49)	
(25)		(50)	

10. Design pressure 1650 psi. Temp. 565 °F. Hydro. test pressure N/A (when applicable) at temp. °F

* 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.

(12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Pg 4

FORM N-2 (Back — Pg. 2 of 2)

Certificate Holder's Serial Nos. N 398186-1 through -

CERTIFICATION OF DESIGN

Design specifications certified by Sidney A. Copland (when applicable) P.E. State PA Reg. no. 19877-E

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (~~Vessel~~) 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 9/16/97 Name Masoneilan-Dresser Industries (NPT 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 MA and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected these items described in this Data Report on SEPT. 17, 1997, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.

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

Date 9/17/97 Signed [signature] (Authorized Inspector) Commissions MA-1337 (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 1

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

Unit: ONE

W/O 247182, 00-153-002 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

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

5. (a) Applicable Construction Code: III 19 74 Edition, thru W'74 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 (BACKSEAT BUSHING)	YARWAY	A0076	N/A	HV148F006	1976	REPLACED	YES
2) VALVE (BACKSEAT BUSHING)	YARWAY	YW 577C	N/A	HV148F006	1982	REPLACEMENT	YES

7. Description of Work: REPLACED BACKSEAT BUSHING

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 _____

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

Type Code Symbol Stamp N/A

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

Signed _____ Date June 29, 19 2000

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 4-11-2000 to 4-20-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

_____ Commissions NB 7525 IBNA PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 29, 19 2000

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

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

REGISTER: 61328 P.O. 20798

1. (a) Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422
(Name and address of NPT Certificate Holder)

(b) Manufactured for PENNSYLVANIA POWER & LIGHT CO., SUSQUEHANNA STEAM ELECTRIC STATION
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part YW 577C Nat'l Bd. No. ---

(a) Constructed According to Drawing No. 106641-03 Drawing Prepared by YARWAY CORPORATION

(b) Description of Part Inspected BUSHING, BACKSEAT, 1-1/2" - 5551B QUANTITY: 1

(c) Applicable ASME Code: Section III, Edition 1974 WINTER, Addenda date 1974, Case No. ____ Class 1

3. Remarks: RENEWAL PARTS FOR NUCLEAR MANUAL GLOBE VALVES.
(Brief description of service for which component was designed)

MATERIAL: ASME SA564 GRADE630

DESIGN PRESSURE: 1500 PSI

HYDROSTATIC TEST PRESSURE: 3600 PSI

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 Jan. 19 1982 Signed YARWAY CORPORATION By W. A. Volger
(NPT Certificate Holder) W. A. VOLGER

Certificate of Authorization Expires NOVEMBER 14, 1983 Certificate of Authorization No. NPT 2450

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at BECHTEL POWER CORPORATION

No. 83-1150 RECORD PACKAGE PAGE 8 OF 22

Stress analysis report on file at BECHTEL POWER CORPORATION

Design specifications certified by JOHN R. SCHMIEDEL Prof. Eng. State PA. Reg. No. 19870E

Stress analysis report certified by HAROLD I. GREGG Prof. Eng. State PA. Reg. No. 9053E

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS MUTUAL of INSURANCE CO. of PHILADELPHIA, PA.* have inspected the part of a pressure vessel described in this Partial Data Report on 1/19/82 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.

*FACTORY MUTUAL SYSTEM.

Date 6/15 1982

Inspector's Signature

Commissions PA 1515
National Board, State, Province and No.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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 6 - "Remarks".

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 Of 3

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

Unit: ONE

SEE SHT 3 OF 3
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 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-515-EQ 5395	5395	HV148F004A	1997	REPLACED	YES
2) SQUIBB VALVE INLET FITTING	CONAX	GE-541-EQ 5521	5521	HV148F004A	1998	REPLACEMENT	YES
3) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-515-EQ 5420	5420	HV148F004A	1997	REPLACED	YES
4) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-541-EQ 5546	5546	HV148F004A	1998	REPLACEMENT	YES
5) SQUIBB VALVE INLET FITTING	CONAX	GE-514-EQ 5394	5394	HV148F004B	1997	REPLACED	YES
6) SQUIBB VALVE INLET FITTING	CONAX	GE-561-EQ 5758	5758	HV148F004B	1999	REPLACEMENT	YES
7) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-514-EQ 5419	5419	HV148F004B	1997	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 VALVE CODE OF CONST. 1968 DRAFT
Applicable Manufacturer's Data Reports to be attached

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29, 2000

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 4-27-99 to 4-10-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date JUNE 29, 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 2 of 3

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

Unit: ONE

SEE SHT 3 OF 3
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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-561-EQ 5733	5733	HV148F004B	1999	REPLACEMENT	YES
9) SQUIBB VALVE INLET FITTING	CONAX	GE-541-EQ 5521	5521	HV148F004A	1998	REPLACEMENT	YES
10) SQUIBB VALVE INLET FITTING	CONAX	GE-562-EQ 5759	5759	HV148F004A	1999	REPLACEMENT	YES
11) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-541-EQ 5546	5546	HV148F004A	1998	REPLACEMENT	YES
12) SQUIBB VALVE TRIGGER ASSEMBLY	CONAX	GE-562-EQ 5734	5734	HV148F004A	1999	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 3 of 3

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

Unit: ONE

SEE LIST BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 AUTH./ WORK ORDER		DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-4	H81005	99-153-001	HV-143F004A, REPLACED INLET FITTING & TRIGGER ASSMEBLY	N/A; REPLACED PRIOR TO TESTING SEE CODE FORM 00-153-001
5-8	H81006	99-153-002	HV-143F004B, REPLACED INLET FITTING & TRIGGER ASSMEBLY	VT-2 PER SE-054-301 TEMP 75° PRESS 1320 PSIG
9-12	247365	00-153-001	HV-143F004A, REPLACED INLET FITTING & TRIGGER ASSMEBLY	VT-2 PER SE-054-301 TEMP 75° PRESS 1320 PSIG

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

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

1. Manufactured and certified by IST Conax Nuclear, Inc. 402 Sonwil 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 (drawing no.) SA479 304SST (mat'l spec. no.) 75 KSI (tensile strength) N/A (CRN) 1998 (year built)

5. ASME Code, Section III, Division 1: 77 (edition) S77 (addenda date) 1 (class) N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision _____ 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)	5515	5515
(2)	5516	5516
(3)	5517	5517
(4)	5518	5518
(5)	5519	5519
(6)	5520	5520
(7)	5521	5521
(8)	5522	5522
(9)	5523	5523
(10)	5524	5524
(11)	5525	5525
(12)	5526	5526
(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)		
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(41)		
(42)		
(43)		
(44)		
(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 1500 psi. Temp. 150 °F. Hydro. test pressure * See Remarks (when applicable) at temp. °F

*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.

8-6-98

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

Certificate Holder's Serial Nos. 5515 through 5526

CERTIFICATION OF DESIGN

Design specifications certified by George I. Skoda (when applicable) P.E. State CA Reg. no. 15847

Design report* certified by Francis J. Domino (when applicable) P.E. State NY Reg. no. 36832

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-1850 Expires September 2, 1998

Date 8/4/98 Name IST Conax Nuclear (NPT Certificate Holder) Signed Paul E Couchon (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 AUG. 4 1998, 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 8-4-98 Signed (Authorized Inspector) Commissions NB 10964AN NY 5057 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

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

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

Not to Exceed One Day's Production

1. Manufactured and certified by IST Conax Nuclear, 2300 Walden Avenue, 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 (drawing no.) SA479 304SST (mat'l spec. no.) 75 KSI (tensile strength) N/A (CRN) 1998 (year built)

5. ASME Code, Section III, Division 1: 77 (edition) S77 (addenda date) 1 (class) N/A (Code Case no.)

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

7. Remarks: Trigger Body Subassembly for explosive actuated valve replacement kit for standby liquid control system.

Para. NB-2121 (b) is applicable to ram. Press Fit/Seal on .328 & .4375 diameters. Overall subassembly length is 2.5".

Pressure Test at 2800 psi for 10 minutes.

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

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	5540	5540
(2)	5541	5541
(3)	5542	5542
(4)	5543	5543
(5)	5544	5544
(6)	5545	5545
(7)	5546	5546
(8)	5547	5547
(9)	5548	5548
(10)	5549	5549
(11)	5550	5550
(12)	5551	5551
(13)		
(14)		
(15)		
(16)		
(17)		
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	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(26)		
(27)		
(28)		
(29)		
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(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 1500 psi. Temp. 150 °F. Hydro. test pressure * See Remarks (when applicable) at temp. °F

*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.

2-6-98

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

Certificate Holder's Serial Nos. 5540 through 5551

CERTIFICATION OF DESIGN

Design specifications certified by George I. Skoda (when applicable) P.E. State CA Reg. no. 15847

Design report* certified by Francis J. Domino (when applicable) P.E. State NY Reg. no. 36832

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-1850 Expires September 2, 1998

Date 8/4/98 Name IST Conax Nuclear (NPT Certificate Holder) Signed Paul E. Couchman (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 AUG. 4 1998, 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 8-4-98 Signed [illegible] (Authorized Inspector) Commissions NB 10964AN NY 5057 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

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

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

Not to Exceed One Day's Production

1. Manufactured and certified by IST Conax Nuclear, 402 Sonwil 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 (drawing no.) SA479 304SST (mat'l spec. no.) 75 KSI (tensile strength) N/A (CRN) 1999 (year built)

5. ASME Code, Section III, Division 1: 77 (edition) S77 (addenda date) 1 (class) N/A (Code Case no.)

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

7. Remarks: Trigger Body Subassembly for explosive actuated valve replacement kit for standby liquid control system.

Para. NB-2121 (b) is applicable to ram. Press Fit/Seal on .328 & .4375 diameters. Overall subassembly length is 2.5".

Pressure Test at 2800 psi for 10 minutes.

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

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

	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1)	5732	5732
(2)	5733	5733
(3)	5734	5734
(4)	5735	5735
(5)	5736	5736
(6)	5737	5737
(7)	5738	5738
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(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)		
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(32)		
(33)		
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(48)		
(49)		
(50)		

10. Design pressure 1500 psi. Temp. 150 °F. Hydro. test pressure * See Remarks (when applicable) at temp. °F

*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.

5 GES 7/30/99

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

05A

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

Certificate Holder's Serial Nos. 5732 through 5738

CERTIFICATION OF DESIGN

Design specifications certified by George I. Skoda (when applicable) P.E. State CA Reg. no. 15847

Design report* certified by Francis J. Domino (when applicable) P.E. State NY Reg. no. 36832

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this (these) Medium Voltage Penetration 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, 2001

Date 6/4/99 Name IST Conax Nuclear (NPT Certificate Holder) Signed Paul E Couchm (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 26, 1999, 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 6-4-99 Signed [illegible] (Authorized Inspector) Commissions NB 10964AN NY 5057 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

5 GES

7/30/99

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \?

06

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

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

Not to Exceed One Day's Production

1. Manufactured and certified by IST Conax Nuclear, Inc. 402 Sonwil 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 (drawing no.) SA479 304SST (mat'l spec. no.) 75 KSI (tensile strength) N/A (CRN) 1999 (year built)

5. ASME Code, Section III, Division 1: 77 (edition) S77 (addenda date) 1 (class) N/A (Code Case no.)

6. Fabricated in accordance with Const. Spec. (Div. 2 only) N/A (no.) Revision _____ 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)	5757	5757
(2)	5758	5758
(3)	5759	5759
(4)	5760	5760
(5)	5761	5761
(6)	5762	5762
(7)	5763	5763
(8)		
(9)		
(10)		
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(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)		
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(45)		
(46)		
(47)		
(48)		
(49)		
(50)		

10. Design pressure 1500 psi. Temp. 150 °F. Hydro. test pressure * See Remarks (when applicable) at temp. °F

*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.

5 GES 7/30/99

Assigned to: ???? FOR INFORMATION ONLY Expires On: 17

06A

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

Certificate Holder's Serial Nos. 5757 through 5763

CERTIFICATION OF DESIGN

Design specifications certified by George I. Skoda (when applicable) P.E. State CA Reg. no. 15847

Design report* certified by Francis J. Domino (when applicable) P.E. State NY Reg. no. 36832

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 6/4/99 Name IST Conax Nuclear (NPT Certificate Holder) Signed Paul E Loughlin (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 26 1999, 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 6-4-99 Signed (Authorized Inspector) Commissions NB 10964AN NY 5057 (Nat'l Bd. (incl. endorsements) and state or prov. and no.)

5 GES 7/30/99

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 07/05/00

Sheet 1 Of 1

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

Unit: ONE

WA P84204 & P81053 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: EMERGENCY SERVICE WATER154A, 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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	CROSBY	N67795-00-0003	N/A	PSV-08624B1	1984	REPLACED	YES
2) VALVE	CROSBY	N67795-00-0013	N/A	PSV-08624B1	1988	REPLACEMENT	YES
3) VALVE	CROSBY	N67795-00-0001	N/A	PSV-08624A1	1984	REPLACED	YES
4) VALVE	CROSBY	N67795-00-0012	N/A	PSV-08624A1	1988	REPLACEMENT	YES

7. Description of Work: REPLACED VALVES

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ (VT-2 PER SE-054-301)
Other ☐ Pressure A1-91/B1-121 psi Test Temp. A1-34/B1-55 °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** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date July 10, 2000

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 10-27-98 to 5-5-00, 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.

[signature] Inspector's Signature

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

Date July 10 2000

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

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

Q.C.-44C-1

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. VR Order No N85075 Contract Date 10/20/87 National Board No. --

2. Manufactured For Pennsylvania Power & Light Co. 2 No. 9th Street Allentown, PA 18101 Order No. 6-14904-1
Name and Address

3. Owner Pennsylvania Power & Light Co.
Name and Address

4. Location of Plant Susquehanna SES Berwick, PA

5. Valve Identification PSV-21102 Serial No. N67795-00-0013 Drawing No. DS-C-67795 Rev. A

Type Vacuum
Safety, Safety Relief, Pilot, Power Actuated

Orifice Size -- Inch Pipe Size --- Inch Inlet 2 Inch Outlet 2 Inch

6. Set Pressure (PSIG) 0.2 PSIG 125 °F
Rated Temperature

Stamped Capacity 128 SCFM AIR @ 60°F @ 10 % Overpressure -- Blowdown (PSIG) ----

Hydrostatic Test (PSIG) Inlet ---- Complete Valve 255

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

Class 3 Edition 1971, Addenda Date WINTER 1972, Case No. ---

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification Including Type or Grade
a. ~~XXXXXX~~ Forgings		
Body	N94530-36-0020	ASME SA 105
Bonnet	N94531-33-0011	ASME SA 105
b. Bar Stock and Forgings		
~~XXXXXXXXX~~ Cage	N93989-36-0023	ASME SA 479 Type 316
~~XXXXXX~~ Disc Collar	N93993-45-0042	ASME SA 479 Type 316
Disc	N93990-40-0023	ASME SA 479 Type 316
Spring Washers	N93991-36-0026	ASME SA 479 Type 316
Adjusting Bolt		
Spindle		

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	NX4766-0015	ASTM A 313 Type 316
d. Bolting		
e. Other Parts such as Pilot Components		

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

Date 6/10/1988 Signed Crosby Valve & Gage Co. By [signature]
Manufacturer

Certificate of Authorization No. 1878 expires September 30, 1989

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Arkwright Mutual Insurance Company have inspected the equipment described in this Data Report on June 10 1988 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

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

Date June 10 1988 Factory Mutual System

[signature]
(Inspector)

Commissions MA 1375 PAWC 3327
(National Board, State, Province and No.)

KIK 88-751

CROSBY CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

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

Q.C.-44C-1

DATA REPORT
Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093
Name and Address

Model No. VR Order No. N85075 Contract Date 10/20/87 National Board No. --

2. Manufactured For Pennsylvania Power & Light Co. 2 No. 9th Street Allentown, PA 18101 Order No. 6-14904-1
Name and Address

3. Owner Pennsylvania Power & Light Co.
Name and Address

4. Location of Plant Susquehanna SES Berwick, PA

5. Valve Identification PSV-21101 Serial No. N67795-00-0012 Drawing No. DS-C-67795 Rev. A

Type Vacuum Orifice Size -- Pipe Size --- Inlet 2 Outlet 2
Safety, Safety Relief, Pilot, Power Actuated Inch Inch Inch Inch

6. Set Pressure (PSIG) 0.2 PSIG 125 F
Rated Temperature

Stamped Capacity 128 SCFM AIR @ 60°F @ 10 % Overpressure -- Blowdown (PSIG) ----

Hydrostatic Test (PSIG) Inlet ---- Complete Valve 255

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

Class 3 Edition 1971, Addenda Date WINTER 1972, Case No.

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification Including Type or Grade
a. ~~XXXXXX~~ Forgings		
Body	N94530-36-0019	ASME SA 105
Bonnet	N94531-33-0012	ASME SA 105
b. Bar Stock and Forgings		
~~XXXXXXXXX~~ Cage	N93989-36-0019	ASME SA 479 Type 316
~~XXXXXX~~ Disc Collar	N93993-45-0044	ASME SA 479 Type 316
Disc	N93990-40-0021	ASME SA 479 Type 316
Spring Washers	N93991-36-0028	ASME SA 479 Type 316
Adjusting Bolt		
Spindle		

No. 88-0785 751 SOP 3-29-89
RECORD PACKAGE
PAGE 8 OF 16

8 8 2 8 6 2 1 4 1 6

RIK 88-121

CROSBY

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	NX4766-0011	ASTM A 313 Type 316
d. Bolting		
6. Other Parts such as Pilot Components		

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

Date 6/10/1988 Signed Crosby Valve & Gage Co. By

Manufacturer

Certificate of Authorization No. 1878 expires September 30, 1989

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Arkwright Mutual Insurance Company have inspected the equipment described in this Data Report on June 10 19 88 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

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

Date June 10 19 88 Factory Mutual System

(Inspector) Commissions MA 1575 PANC 3327

(National Board, State, Province and No.)

No. 0725 RECORD PAGE

8828522417

CROSBY

CROSBY VALVE INC.
WRENTHAM, MA

Q.C.-257, Rev. B

REPAIR CERTIFICATION REPORT

CROSBY SALES ORDER NO.:	NV9000057
CUSTOMER ORDER NO.:	123812-C AMMENDMENT 003
VALVE SERIAL NUMBER:	N67795-00-0012
VALVE TAG NUMBER:	PSV21101

Description of Repair:

THE VALVE WAS VISUAL INSPECTED AND TESTED FOR SET PRESSURE AND SEAT LEAKAGE IN ACCORDANCE WITH CROSBY TEST PROCEDURE T-16306 REPORTS ATTACHED.
THE VALVE PASSED "AS RECEIVED "TESTING NO DISASSEMBLY OR FURTHER INSPECTION REQUIRED.

THE REFURBISHMENT WAS PROCESSED IN ACCORDANCE WITH THE PENNSYLVANIA POWER & LIGHT CO. PURCHASE ORDER 123812-C AMMENDMENT 003.

DAB 7/5/00

*Inspection and testing only.

ANI 07-05-2000

Deborah Berner
CROSBY VALVE QUALITY ASSURANCE

25 NOV 98
DATE

REPAIR AND REPLACEMENT
TO NUCLEAR COMPONENTS AND SYSTEMS IN NUCLEAR POWER PLANTS

Work performed by Crosby Valve Inc., 43 Kendrick St., Wrentham, MA 02093
(Name and Address)

(Repair organization's P.O. No., Job No., etc.) NV9000057

2. Owner PENNSYLVANIA POWER & LIGHT CO.
(Name and Address)

3. Name and Identification of Nuclear Power Plant SUSQUEHANNA

4. Address of Nuclear Power Plant BERWICK ,PA 18603

5. Identification of System VACUUM RELIEF

6. a. Identification of component repaired or replacement component PSV21101
   b. Name of manufacturer CROSBY VALVE INC.
   c. Identifying Nos. N67795-00-0012 — — — 1988
   (Mfr's. Serial No.) (Nat'l. Bd. No.) (Jurisdiction No.) (Other) (Year Built)

7. Applicable Section(s) XI of ASME Code, 1989 Edition _____ Addenda Code Case --

8. Tests conducted: Hydrostatic ☐ Pneumatic ☐ Design Pressure ☐ Pressure 0.2PSID psi

9. Description of work: REFURBISHMENT

(use of additional sheet(s) or sketch(es) is acceptable if properly identified)

10. Remarks:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and all design, material, and workmanship on this (REPAIR) conforms to the applicable section of the ASME Code.
(repair, replacement)

Signed [signature] QA ENGINEER Nov 25, 1998
(Authorized Representative of repair organization) (Title) (Date)

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 the valve described in this report on November 25, 1998 and state that to the best of my knowledge and belief, this repair or replacement has been made or constructed in accordance with the applicable section of the ASME Code.

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

Date 11/25/98 Signed [signature] Commissions MA-1418 N
(Authorized Inspector) (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 1 of 1

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

Unit: ONE

WORK ORDER # 200506 CODE FORM 00-155-004
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: CONTROL ROD DRIVE HYDRAULIC SYSTEM 155, 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 CC N-416-1

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	DBC-108-1	1985	REPLACED	NO
2) LARGE PIPE ASSEMBLY	PP&L	N/A	N/A	DBC-108-1	2000	REPLACEMENT	NO
3) VALVE	ANCHOR DARLING	E3390-1-1	N/A	146026	1984	REPLACED	YES
4) VALVE	FLOWSERVE	E932A-1-1	N/A	146026	2000	REPLACEMENT	YES
5) VALVE	ANCHOR DARLING	E3390-1-2	N/A	146027	1984	REPLACED	YES
6) VALVE	FLOWSERVE	E932A-1-2	N/A	146027	2000	REPLACEMENT	YES

7. Description of Work: REPLACED VALVES AND PIPE BY WELDING, 146026 & 146027

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1070 psi Test Temp. 93.3 °F VT-2 PER SE-000-017

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. Section 5(a) Original & replacement Code of Construction
Applicable Manufacturer's Data Reports to be attached

for valve 146026 & 146027, ASME Sec III 1980 Edition Summer 1982 Addenda.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date July 3, 2000
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 3-13-2000 to 4-1-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date July 10 / 2000

1983 Edition

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 Flowserve Corp. 701 First Street, Williamsport, PA 17701
(name and address of N Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Inc., 2 North Ninth St., Allentown, PA 18101-1149
(name and address of Purchaser or Owner)

3. Location of installation Susquehanna Station, P.O. Box 467, Berwick, PA 18603
(name and address)

4. Model No., Series No., or Type Durabla Check Drawing W9925476 Rev. A CRN --

5. ASME Code Section III: 1980 (Edition) Summer 82 (Addenda date) 3 (Class) -- (Code Case no.)

6. Pump or valve Valve Nominal inlet size 3" (in.) Outlet size 3" (in.)

7. Material: Body SA216-WCB ~~Bonnet~~ End Flange SA105 Disk SA479-316 Bolting SA193-B7 SA194-2H

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) ~~Bonnet~~ End Flange Serial No.	(e) Disk Serial No.
E932A-1-1	N/A	1	HT.#703ZNF1	1
E932A-1-2	N/A	2	HT.#703ZNF1	2

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1

Mfr. Serial No. E932A-1-1 & -1-2

8. Remarks

S.O. #E932A-1

9. Design conditions 2220 (pressure) psi 100 (temperature) °F or valve pressure class 900# (1)

10. Cold working pressure 2220 psi at 100°F

11. Hydrostatic test 3350 psi Temp. Ambient °F Disk differential test pressure 2442 psi

CERTIFICATION OF DESIGN

Design Specification certified by J.R. Schmiedel Prof. Eng. state PA Reg. No. 19870-E

Design Report certified by R.S. Farrell Prof. Eng. state PA Reg. No. 035216-E

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 4/15/01

Date 3/17/2000 Name Flowserve Corp. (N Certificate Holder) Signed R.S. Stannett (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 1-20 to 3-17-00, 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 MAR 17 2000 CU 256

Charles Young (Inspector)

Commissions Pennsylvania 2392 (Nat'l Bd., (incl. endorsements) State, 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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 1 Of 4

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 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)
1) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1345	N/A	HCU-5835	1975	REPLACED	YES
2) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8153	N/A	HCU-5835	1998	REPLACEMENT	YES
3) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1894	N/A	HCU-1407	1975	REPLACED	YES
4) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8087	N/A	HCU-1407	1998	REPLACEMENT	YES
5) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1302	N/A	HCU-3803	1975	REPLACED	YES
6) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8091	N/A	HCU-3803	1998	REPLACEMENT	YES
7) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	2046	N/A	HCU-2227	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.

Applicable Manufacturer's Data Reports to be attached

GE Accumulators: ASME VIII, (Year 1998) '95Ed '97Add & '98 Ed '98 Add (Year 1999) '98 Ed '98 Add

Original Henry Vogt Valve Sec III '71 Ed Win '72 Add, Replacement Disc Sec III '89 Ed No Add

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 3, 19 2000

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 10-13-98 to 4-17-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date July 10, 19 2000

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

1. Owner: PP&L, Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
2. Plant: Susquehanna Steam Electric Station (Name)
   PO Box 467, Berwick, PA 18603 (Address)
3. Work Performed by: PP&L, Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00
Sheet 3 Of 4
Unit: ONE
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: 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) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8301	N/A	HCU-4639	1998	REPLACEMENT	YES
19) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	1274	N/A	HCU-5039	1975	REPLACED	YES
20) NITROGEN ACCUMULATOR	GENERAL ELECTRIC	8161	N/A	HCU-5039	1998	REPLACEMENT	YES
21) VALVE GATE	HENRY VOGT	2102-181441	N/A	HCU-3447 (VALVE 147112)	1975	REPLACED	YES
22) VALVE GATE	HENRY VOGT	TRACE CODE # WAS	N/A	HCU-3447 (VALVE 147112)	1997	REPLACEMENT	YES

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

1. Owner: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 4 Of 4

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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

ITEM(S)	WORK AUTH./ WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	S86237	98-155-009	HCU-5835, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
3-4	S84934	98-155-010	HCU-1407, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
5-6	S84752	98-155-012	HCU-3803, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
7-8	S85451	98-155-013	HCU-2227, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
9-10	195870	99-155-001	HCU-0619, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
11-12	195472	99-155-002	HCU-0643, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
13-14	195498	99-155-003	HCU-1443, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
15-16	195499	99-155-004	HCU-3051, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
17-18	195503	99-155-005	HCU-4639, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
19-20	195507	99-155-006	HCU-5039, REPLACED NITROGEN ACCUMULATOR	NON-VT-2 LEAK TEST PER MT-055-002
21-22	217687	00-155-001	HCU-3447, REPLACED DISC IN VALVE 147112	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&2 Berwick, Pennsylvania 18603
(Name and address of purchaser)

3. Location of installation not known
(Name and address)

4. Type Vertical (Horiz. or vert. tank) 8153 (Mfg'r serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l. Bd. No.) 1998 (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 (Year) to 1997 (Addenda (Date)) N/A (Code Class Nat.) N/A (Special service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

7. Seams: Seamless (Long. (Welded,Dbl.,Sngl.,Lap,Butt)) R.T. (Spot or Full) Eff.(%) R.T. Temp. (F) Time(hr) N/A (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	2.485"	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 (Yes or No) Legs (No.) Legs (No.) Other Band Clamps (Describe) Attached around approx. middle (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'r's name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 08/24/98 Co. name GE-NE (Manufacturer) Signed C.L. Bassett (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 8/7, 1998, 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 8/25/98 Signed [illegible] (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (Incl. endorsements), State, Prov. and No.)

(08/80)

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 (Horiz. or vert. tank) 8087 (Mfg's serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l. Bd. No.) 1998 (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1. 1995 (Year) to 1997 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

7. Seams: Seamless (Long. (Welded,Dbl.,Sing.,Lap,Butt)) R.T. (Spot or Full) Eff. (%) R.T. Temp. (F) Time (hr) N/A (Girth (Welded,Dbl.,Sing.,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	2.485"	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.	Diam 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 (Yes or No) Legs (No.) Legs (No.) Other Band Clamps (Describe) Attached around approx. middle (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
N/A (Name of part, item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999

Date 08/24/98 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 9/2, 1998, 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 8/25/98 Signed [signature] (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(08/90)

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 (Horiz. or vert. tank) 8091 (Mfg's serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l. Bd. No.) 1998 (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 (Year) to 1997 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG-120(d))

6. Shell: SA351 CF8 (Matl. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

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

8. Heads: (a) Matl. SA182-F304 (Spec. No. Grade) (b) Matl. 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	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	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:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Matl.	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 (Yes or No) Legs (No.) Lugs (No.) Other Band Clamps (Describe) Attached around approx. middle (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A (Name of part, item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 08/24/98 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 8/17, 1998, 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 8/25/98 Signed [signature] (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(08/90)

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 (Horiz. or vert. tank) 8070 (Mfg's serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l Bd. No.) 1998 (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1995 (Year) to 1997 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

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

8. Heads: (a) Mat'l. SA182-F304 (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	2.485"	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 (Yes or No) Legs (No.) Legs (No.) Other Band Clamps (Describe) Attached around approx. middle (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

N/A (Name of part, item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999

Date 08/24/98 Co. name GE-NE (Manufacturer) Signed (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 9/17, 1998 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 9/25/98 Signed (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(08/90)

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 (Horiz. or vert. tank) 8169 (Mfg's serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l. Bd. No.) 1998 (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 (Year) to 1998 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

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

8. Heads: (a) Matl. SA182-F304 (Spec. No. Grade) (b) Matl. 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	2.485"	0.005"	-	-	-	-	-	7.220"	Flathead
(b)	Bottom	2.485"	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:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	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 (Yes or No) Legs _____ (No.) Legs _____ (No.) Other Band Clamps (Describe) Attached around approx. middle (Where and how)

12. Remarks: Manufacturer's Partial Data reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
N/A
(Name of part, item number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 01/22/99 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 12/15, 1998, 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 1/22/99 Signed [signature] (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(08/90)

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 (Horiz. or vert. tank) 8300 (Mfg's serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l. Bd. No.) 1998 (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 (Year) to 1998 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

7. Seams: Seamless (Long. (Welded,Dbl.,Sngl.,Lap,Butt)) R.T. (Spot or Full) Eff. (%) R.T. Temp. (F) Time(hr) Girth (Welded,Dbl.,Sngl.,Lap,Butt) N/A 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	2.485"	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.	Diam. 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 (Yes or No) Lugs (No.) Legs (No.) Other Band Clamps (Describe) Attached around approx. middle (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'r. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 01/22/99 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 12/15, 1998, 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 1/22/99 Signed [signature] (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(08/90)

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 (Horiz. or vert. tank) 8332 (Mfg'r's serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l. Bd. No.) 1999 (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 (Year) to 1998 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

7. Seams: Seamless (Long. (Welded,Dbl.,Sngl.,Lap,Butt)) R.T. (Spot or Full) Eff. (%) R.T. Temp. (F) Time (hr) N/A 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	2.485"	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 (Yes or No) Legs (No.) Legs (No.) Other Band Clamps (Describe) Attached around approx. middle (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'r'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 S Barrett (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 9/10, 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 Jerome P Emerson (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(06/90)

Assigned to: ???? FOR INFORMATION ONLY Expires On: \??

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 (Horiz. or vert. tank) 8157 (Mfg'r serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l Bd. No.) 1998 (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 (Year) to 1998 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

7. Seams: Seamless (Long. (Welded,Dbl.,Sngl.,Lap,Butt)) N/A (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 (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	2.485"	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 (Yes or No) Legs (No.) Legs (No.) Other Band Clamps (Describe) Attached around approx. middle (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'r's name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 01/22/99 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 12/15, 1998, 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 1/22/99 Signed [signature] (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(08/80)

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

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 (Horiz. or vert. tank) 8301 (Mfgr's serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l Bd. No.) 1998 (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 (Year) to 1998 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

7. Seams: Seamless (Long. (Welded,Dbl.,Sngl.,Lap,Butt)) R.T. (Spot or Full) Eff. (%) R.T. Temp. (F) Time(hr) Girth (Welded,Dbl.,Sngl.,Lap,Butt) N/A 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	2.485"	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.	Diam 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 (Yes or No) Lugs _____ (No.) Legs _____ (No.) Other Band Clamps (Describe) Attached around approx. middle (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, Mfgr's. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 01/22/99 Co. name GE-NE (Manufacturer) Signed C S Barrett (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 12/15, 1998, 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 1/22/99 Signed Jerome L Emore (Authorized Inspector) Commission NC 1231, Ohio, WC 3686 PA (Nat'l Board (incl. endorsements), State, Prov. and No.)

(08/90)

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

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 (Horiz. or vert. tank) 8161 (Mfg's serial No.) N/A (CRN) 112D3405 G001 Rev 03 (Drawing No.) N/A (Nat'l. Bd. No.) 1998 (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 (Year) to 1998 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG-120(d))

6. Shell: SA351 CF8 (Mat'l. (Spec. No., Grade)) 0.750" (Nom. Thk. (in.)) 0.005" (Corr. Allow. (in.)) 7.028" (Diam. I.D. (ft. & in.)) 3 ft. 2.38 inches (Length (overall) (ft. & in.))

7. Seams: Seamless (Long. (Welded,Dbl.,Sngl.,Lap,Butt)) R.T. (Spot or Full) Eff. (%) R.T. Temp. (F) Time (hr) N/A (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	2.485"	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 (Yes or No) Legs (No.) Lugs (No.) Other Band Clamps (Describe) Attached around approx. middle (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, Mark number, Mfg's. name and identifying stamp)

Complete mechanical assembly with no welded joints.
Although a Differential Pressure exists on each side of the Internal Piston, the Accumulator Cylinder is hydrostatically tested with the Piston removed.
Meets design, construction, and test requirements of 1977 edition, winter 1979 addenda.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10,572 expires June 10, 1999.

Date 01/22/99 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 1/15, 1998, 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 1/22/99 Signed [signature] (Authorized Inspector) Commissions NC 1231, Ohio, WC 3686 PA (Nat'l Board (Incl. endorsements), State, Prov. and No.)

(08/90)

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

As required by the Provisions of the ASME Code Rules

1. (a) Manufactured by VOGT VALVE CO., LOUISVILLE, KY
(Name and address of Manufacturer of part)

(b) Manufactured for GENERAL ELECTRIC CO., SAN JOSE, CAL
(Name and address of Manufacturer of completed nuclear component)

2. Identification-Manufacturer's Serial No. of Part PN 11521 Nat'l Bd. No. ---

(a) Constructed According to Drawing No. E17897, R24 Drawing Prepared by VOGT VALVE CO.

(b) Description of Part Inspected GATE, MATERIAL CODE WAS - SA479 T410 (CHEM ONLY)

(c) Applicable ASME Code: Section III, Edition 1989, Addenda date NONE, Case No. NONE Class 1

3. Remarks: REPLACEMENT GATE FOR 1/2, 3/4" LINE VALVES
(Brief description of service for which component was designed)

ORDER 217395 - 60 PIECES

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

Date 5/15/ 19 97 Signed VOGT VALVE CO. (Manufacturer) By Barbara Bronger

Certificate of Authorization Expires 1/6/99 Certificate of Authorization No. N-948

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at _____

Stress analysis report on file at _____

Design specifications certified by _____ Prof. Eng. State _____ Reg. No. _____

Stress analysis report certified by _____ Prof. Eng. State _____ Reg. No. _____

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of KENTUCKY and employed by COMMERCIAL UNION INS. CO. of BOSTON, MA have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on 5/9 19 97, and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III.

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

Date May 15 19 97

Inspector's Signature _____ Commissions Ky 257

National Board, State, Province and No.

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*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-2 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remarks".

MAY 21 1997

FORM N-2 (back)

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

4. Shell: Material _____ (Kind & Spec. No.) T.S. _____ (Min. of Range Specified) Nominal Thickness ____ in. Corrosion Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____ in.

5. Seams: Long _____ H.T.[1] _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.[1] _____ R.T. _____ No. of Courses _____

6. Heads: (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

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

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

7. Jacket Closure: _____ (Describe as edge and weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

8. Design pressure[2] _____ psi at _____ °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items 9 and 10 to be completed for tube sections

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

Floating. Material _____ Dia. _____ Thickness ____ in. Attachment _____

10. Tubes: Material _____ O.D. ____ in. Thickness _____ inches or gage. Number _____ Type _____ (Str. or U)

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

11. Shell: Material _____ (Kind & Spec. No.) T.S. _____ (Min. of Range Specified) Nominal Thickness ____ in. Corrosion Allowance ____ in. Dia. ____ ft. ____ in. Length ____ ft. ____ in.

12. Seams: Long _____ H.T.[1] _____ R.T. _____ Efficiency _____ %

Girth _____ H.T.[1] _____ R.T. _____ No. of Courses _____

13. Heads (a) Material _____ T.S. _____ (b) Material _____ T.S. _____

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

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

14. Design pressure[2] _____ psi at _____ °F Drop Weight _____ Charpy Impact _____ ft-lb at temp. of _____ °F

Items below to be completed for all vessels where applicable.

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

16. Nozzles:

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

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

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

[1] If Postweld Heat-Treated.
[2] List other internal or external pressure with coincident temperature when applicable.

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

1. Owner: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 of 3

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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) CONTAINMENT HEAD (GASKET)	CB&I	N/A	N/A	X-003	1975	REPLACED	NO
2) CONTAINMENT HEAD (GASKET)	PP&L	N/A	N/A	X-003	2000	REPLACEMENT	NO
3) SUPP. POOL A HATCH (GASKET)	CB&I	N/A	N/A	X-200A	1975	REPLACED	NO
4) SUPP. POOL A HATCH (GASKET)	PP&L	N/A	N/A	X-200A	2000	REPLACEMENT	NO
5) SUPP. POOL B HATCH (GASKET)	GB&I	N/A	N/A	X-200B	1975	REPLACED	NO
6) SUPP. POOL B HATCH (GASKET)	PP&L	N/A	N/A	X-200B	2000	REPLACEMENT	NO
7) CRD HATCH (GASKET)	CB&I	N/A	N/A	X-006	1975	REPLACED	NO

7. Description of Work: SEE ATTACHED LIST.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ SEE SHEET 3
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 ALL PENETRATIONS AND HATCHES ORIGINAL DESIGN PER ASME III NE 1971 WITH
Applicable Manufacturer's Data Reports to be attached

SUMMER '72 ADD. CODE CASES 1493,1522,1567,1571.

REPLACEMENT GASKETS ARE NON-CODE.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date July 6 19 2000

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 4-16-2000 to 6-6-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions NB 2525 18 NA PA 2159
Inspector's Signature National Board, State, Province, and Endorsements

Date July 10 19 2000

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

1. Owner: PP&L Inc. (Name) — Date: 06/26/2000

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 3

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — SEE ATTACHED LIST (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: CONTAINMENT PRESSURE VESSEL, 159A, CLASS MC.

5. (a) Applicable Construction Code: 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. OF IWE

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
8) CRD HATCH (GASKET)	PP&L	N/A	N/A	X-006	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 3 of 3

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 OF IWE

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-2	100728	00-159-001	REMOVE AND REINSTALL CONTAINMENT HEAD USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-159-004 temp : ambient / press 45 psig
3-4	100714	00-159-002	REMOVE AND REINSTALL SUPPRESSION POOL "A" HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-159-015 temp : ambient / press 45 psig
5-6	100715	00-159-003	REMOVE AND REINSTALL SUPPRESSION POOL "B" HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-159-016 temp : ambient / press 45 psig
7-8	100713	00-159-004	REMOVE AND REINSTALL CRD HATCH USING NEW GASKET.	VT-3 PER ASME XI, 92 ED. '92 ADD. LLRT PER SE-159-005 temp : ambient / press 45 psig

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

1. Owner: PP&L, Inc. (Name) — Date: 06/26/2000

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 Of 4

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — See Attached List (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: REACTOR WATER 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 LIST SHEET 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) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPEBC106-3	1982	REPLACED	YES
2) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPEBC106-3	2000	REPLACEMENT	NO
3) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPEBC106-H2014	1982	REPLACED	NO
4) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPEBC106-H2014	2000	REPLACEMENT	NO
5) VALVE	HILLS MCCANNA	30-973	N/A	145030A	N/A	REPLACED	YES
6) VALVE	HILLS MCCANNA	216-380	N/A	145030A	1981	REPLACEMENT	YES
7) VALVE	VALTEK	6611-6-1	N/A	FV14566A	N/A	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 REPORT(S) ATTACHED.
Applicable Manufacturer's Data Reports to be attached

ITEMS 18 & 19 ARE BEING REPORTED DUE TO ERROR IN REPORTING DURING 1RO10.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date June 29 ~~19~~ 2000

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 11-29-99 to 3-17-00, 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.

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

Date JUNE 29 ~~19~~, 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 2 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 LIST SHEET 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) VALVE (PIPE PLUG)	VALTEK	6611-6-1	N/A	FV14566A	N/A	REPLACED	YES
9) VALVE (PIPE PLUG)	PP&L	N/A	N/A	FV14566A	2000	REPLACEMENT	NO
10) VALVE	HILLS MCCANNA	146-673	N/A	14513A	N/A	REPLACED	YES
11) VALVE	HILLS MCCANNA	210-380	N/A	14513A	1980	REPLACEMENT	YES
12) VALVE	HILLS MCCANNA	145-673	N/A	14513B	N/A	REPLACED	YES
13) VALVE	HILLS MCCANNA	206-380	N/A	14513B	1980	REPLACEMENT	YES
14) VALVE	BNL INDUSTRIES	A960201-2-1	N/A	HV-14512A	1996	REPLACED	YES
15) VALVE	BNL INDUSTRIES	A960201-2-2	N/A	HV-14512A	1996	REPLACEMENT	YES
16) VALVE BALL	BNL INDUSTRIES	A960201-2-2	N/A	HV-14512A	1996	REPLACED	YES
17) VALVE BALL	BNL INDUSTRIES	A000305-1-1	N/A	HV-14512A	2000	REPLACEMENT	YES
18) VALVE	HILLS MCCANNA	222-673	N/A	HV-14512B	N/A	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: PP&L, Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
2. Plant: Susquehanna Steam Electric Station (Name)
   PO Box 467, Berwick, PA 18603 (Address)
3. Work Performed by: Pennsylvania Power & Light Co. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000
Sheet 3 of 4
Unit: ONE
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. Indentification 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 LIST SHEET 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) VALVE	BNL INDUSTRIES	A960201-2-3	N/A	HV-14512B	1996	REPLACEMENT	YES
20) VALVE BALL	BNL INDUSTRIES	A960201-2-3	N/A	HV-14512B	1996	REPLACED	YES
21) VALVE BALL	BNL INDUSTRIES	A980803-1-1	N/A	HV-14512B	1998	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 4 of 4

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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
1-6	104673	99-161-011	REPLACED VALVE 145030A, ASSOC PIPE SPEBC106-3 & SUPT CLIP SPEBC106-H2014	ORIG. VALVE SEC III 1968 DRAFT P&V CODE. REPLACEMENT SEC III '77 ED NO ADD	VT-2 PER TP-000-001 TEMP 104°F/PRESS 1155 PSIG
7-9	187815	99-161-012	FV-14566A, REPAIRED BONNET BY MACHINING AND REPLACED BONNET PIPE PLUG	ORIG. VALVE SEC III 1968 DRAFT P&V CODE.	VT-2 PER TP-000-001 TEMP 104°F/PRESS 1160 PSIG
10-13	104585	99-161-013 & 99-161-014	HV-14513A & HV-14513B, REPLACED VALVES BY WELDING	ORIG. VALVE SEC III 1968 DRAFT P&V CODE. REPLACEMENT SEC III '77 ED NO ADD	VT-2 PER TP-000-001 TEMP 90°F/PRESS 1190 PSIG
14-17	237159	00-161-009	HV14512A, REPLACED VALVE BY WELDING & BALL IN NEW VALVE DUE TO DAMAGE AT INSTALLATION	ORIG VALVE, REPLACE VALVE & REPLACE BALL ASME SEC III '74 ED NO ADD	NON VT-2 PER MI-PS-008
18-19	S44595	95-161-007	HV14512B, REPLACED VALVE (SEE COMMENTS SECTION 9)	ORIG. VALVE SEC III 1968 DRAFT P&V CODE. REPLACEMENT SEC III '74 ED NO ADD	NON VT-2 PER MI-PS-008
20-21	237159	00-161-010	HV14512B, REPLACED VALVE BALL	ORIG VALVE, REPLACEMENT BALL ASME SEC III '74 ED NO ADD	NON VT-2 PER MI-PS-008

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

1. Manufactured by Hills McCanna Company 400 Maple Ave., Carpentersville, IL 60110
(Name and Address of Manufacturer)
2. Manufactured for General Electric Co., 175 Curtner Ave., San Jose, Calif. 95125
(Name and Address of Purchaser or Owner)
3. Location of Installation Public Service Co. of OK, Black Fox Station Unit 2, Inola, OK 74036
(Name and Address)
4. Pump or Valve Ball Valve. Nominal Inlet Size 2" (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	212-380	./.	CBVA-2475	3	./.	1980
(3)	CS-E-S6	213-380	./.	CBVA-2475	3	./.	1980
(4)		214-380	./.	CBVA-2475	3	./.	1980
(5)		215-380	./.	CBVA-2475	3	./.	1980
(6)		216-380	./.	CBVA-2475	3	./.	1980
(7)							
(8)							
(9)							
(10)							

5. Filter Demineralizer Ball Valves
(Brief description of service for which equipment was designed)

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

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
Body 229-0234	SA216 Gr. WCB	Lebanon Steel	SN 1077-282 Ht. 9519W7
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-49 Ht. WJ737
Body 229-0234	SA216 Gr. WCB	PRL Industries	SN 1079-20 Ht. WJ546
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-56 Ht. WJ733
Body 229-0234	SA216 Gr. WCB	PRL Industries	SN 1079-21 Ht. WJ563
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-77 Ht. WJ742
Body 229-0234	SA216 Gr. WCB	Lebanon Steel	SN 1077-253 Ht. 9519W4
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-55 Ht. WJ743
Body 229-0234	SA216 Gr. WCB	PRL Industries	SN 1079-29 Ht. WJ562
Bonnet 229-0624	SA216 Gr. WCB	PRL Industries	SN 1079-50 Ht. WJ757
(b) 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.

(1/76) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

CUH 11-7-81

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Stud 229-3305	SA193 Gr. B7	Victor Products	Marking: "VB7 DG"
Nut 919-2409	SA194 Gr. 2H	Nuts, Inc.	Marking: "NW8"
(d) Other Parts			
Ball 229-G746	SA479 Type 316	Ryerson	Marking: "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 /. (Date), Code Case No. /. Date 10-20-81

Signed Hills McCanna Company (Manufacturer) by Thomas G Gallant

Our ASME Certificate of Authorization No. N-2495 to use the N (N) (NPV) symbol expires 7-17-84 (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 /. 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 Lumbermens Mutual Casualty of Long Grove, Illinois have inspected the pump, or valve, described in this Data Report on 10-29- 19 81, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

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

Date 10-29- 1981 (Inspector) R. D. Humphreys

Commissions Ill. 919. (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	210-380	/	CBVA 2475	3	/	1980
(3)	CS-E-S6	211-380		CBVA 2475	3		1980
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

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

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

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings				
Body	229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-27 Ht. #WJ555
Bonnet	229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-67 Ht. #WJ750
Body	229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-25 Ht. #WJ545
Bonnet	229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-54 Ht. #WJ738
(b) Forgings				

8/7/80

(1) For manually operated valves only.

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

(1/76) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

	Mat'l 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 ./. (Date), Code Case No. ./. Date

Signed Hills McCanna Company (Manufacturer) by John L. Heidenreich

Our ASME Certificate of Authorization No. N-1037 to use the N (N) (NPV) symbol expire: 5-6-81 (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 ./. 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 Lumbermens 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 Prem 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	205-380	/	CBVA 2475	3	/	1980
(3)	CS-E-S6	206-380		CBVA 2475	3		1980
(4)		207-380		CBVA 2475	3		1980
(5)		208-380		CBVA 2475	3		1980
(6)		209-380		CBVA 2475	3		1980
(7)							
(8)							
(9)							
(10)							

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

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

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings				
Body	229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-15 Ht. #WJ560
Bonnet	229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-53 Ht. #WJ755
Body	229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-26 Ht. #WJ549
Bonnet	229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-61 Ht. #WJ735
Body	229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-16 Ht. #WJ538
Bonnet	229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-58 Ht. #WJ753
Body	229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-6 Ht. #WJ552
Bonnet	229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-75 Ht. #WJ736
Body	229-0234	SA 216 Gr. WCB	PRL Industries	Ser. #1079-17 Ht. #WJ543
Bonnet	229-0624	SA 216 Gr. WCB	PRL Industries	Ser. #1079-51 Ht. #WJ749
(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.

(1/76) This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

FORM NPV-1 (Back)

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting				
Stud	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 /. (Date), Code Case No. /. Date

Signed Hills McCanna Company (Manufacturer) by John L. Heidemerch

Our ASME Certificate of Authorization No. N-1037 to use the N (N) (NPV) symbol expires 5-6-81 (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 /. 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 Lumbermens 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 Commissions IL-1088 (Nat'l Bd., State, Prov. and No.)

Frank Lahoti (Inspector)

corrected 7/18/96

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

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

1. Manufactured and certified by BNL INDUSTRIES, INC, 30 INDUSTRIAL PARK RD, VERNON CT 06066
(name and address of N Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT, TWO NORTH NINTH ST, ALLENTOWN PA 18101
(name and address of Purchaser)
3. Location of installation P P & L, SUSQUEHANNA, RTE 11, BERWICK PA 18603
(name and address)
4. Model No., Series No., or Type valve Drawing A NBV-A2-04-0061 Rev. B CRN
5. ASME Code, Section III, Division 1: 1974 (edition) 7/15/96 (addenda date) 3 (class) (Code Case no.)
6. Pump or valve valve Nominal inlet size 1/2" (in.) Outlet size 1/2" (in.)
7. Material: Body SA 105 Bonnet SA 105 Disk SA 479 Ty 316 Bolting SA193GrB7/SA194Gr2H

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A960201-2-1		K23-1	K23-2	K72
A960201-2-2		K23-1	K23-2	K72
A960201-2-3		K23-1	K23-2	K72
A960201-2-4		K23-1	K23-2	K72

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

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

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 Ins Co. 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] (authorized inspector) Commissions CT1343 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(1) For manually operated valves only.

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

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

Not to Exceed One Day's Production

1. Manufactured and certified by BNL INDUSTRIES, INC, 30 INDUSTRIAL PARK ROAD, VERNON, CT, 06066 (name and address of NPT Certificate Holder)
2. Manufactured for PENNSYLVANIA POWER & LIGHT CO, TWO NORTH NINTH ST, ALLENTOWN, PA 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 (drawing no.) SA-479, Ty316 / (mat'l. spec. no.) 75 KSI (tensile strength) (CRN) 2000 (year built)
5. ASME Code, Section III, Division 1: 1974 / (edition) - (addenda date) 3 / (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) _____ (no.) Revision _____ Date _____
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
A000305-1-(1) (BNI TRACE#L128) /	
(1)	
(2)	
(3)	
(4)	
(5)	
(6)	
(7)	
(8)	
(9)	
(10)	
(11)	
(12)	
(13)	
(14)	
(15)	
(16)	
(17)	
(18)	
(19)	
(20)	
(21)	
(22)	
(23)	
(24)	
(25)	

Part or Appurtenance Serial Number	National Board No. in Numerical Order
(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 ANSI 600# psi. Temp. 150F °F. Hydro. test pressure 1630 PSI AMBIENT (when applicable) at temp. °F

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Reprint (7/91)

FORM N-2 (Back — Pg. 2 of 2)

A000305-1-(1) (BNL TRACE#L128)

Certificate Holder's Serial Nos. _____ through _____

CERTIFICATION OF DESIGN

Design specifications certified by J.G. SHELLENBERGER (when applicable) P.E. State PA Reg. no. 19551-E

Design report* certified by _____ (when applicable) P.E. State _____ Reg. no. _____

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 03/07/00 Name BNL INDUSTRIES, INC. (NPT Certificate Holder) Signed _____ (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 03/07/00, 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 3-7-2000 Signed _____ (Authorized Inspector) Commissions NB. 6504 AN 2 659 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

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

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

Not to Exceed One Day's Production

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 (drawing no.) SA-479,Ty316 (mat'l. spec. no.) 75 KSI (tensile strength) (CRN) 1998 (year built)
5. ASME Code, Section III, Division 1: 1974 (edition) - (addenda date) 3 (class) (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) _____ (no.) Revision _____ Date _____
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
A980803-1-(1THRU2)	(BNL TRACE#L128)		
(1)		(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 ANSI 600# psi. Temp. 150F °F. Hydro. test pressure 1630 PSI AMBIENT (when applicable) at temp. °F

* 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.

(12/88) 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)

A980803-1-(1&2)

Certificate Holder's Serial Nos. _____ through _____

CERTIFICATION OF DESIGN

Design specifications certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E
(when applicable)

Design report* certified by _____ P.E. State _____ Reg. no. _____
(when applicable)

CERTIFICATE OF COMPLIANCE

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

NPT Certificate of Authorization No. N-2883 Expires 11/10/98

Date 09/23/98 Name BNL INDUSTRIES, INC. Signed _____
(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 09/23/98, 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 9/23/98 Signed _____ Commissions NY 2597
(Authorized Inspector) [Nat'l. Bd. Insp. endorsement(s) 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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 Of 4

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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 SECTION 9 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) STEM/DISC ASSEMBLY	YARWAY	4888	N/A	144F002	1976	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	A8643 (REMOVED FROM VALVE)	N/A	144F002	1979	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	4888	N/A	144F002	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	A8643 (REMOVED FROM VALVE)	N/A	144F002	1979	REPLACEMENT	NO
5) VALVE GASKET RETAINING RING	ANCHOR DARLING	E5853-24-1	N/A	HV144F004	1975	REPLACED	YES
6) VALVE GASKET RETAINING RING	ANCHOR DARLING	HT # 89886-21	N/A	HV144F004	1984	REPLACEMENT	YES
7) VALVE (PIPE PLUG)	ANCHOR DARLING	E5853-24-1	N/A	HV144F004	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 REPORT(S) ATTACHED. ORIGINAL YARWAY VALVE CODE OF CONST1974 ED
Applicable Manufacturer's Data Reports to be attached

WIN 1974 ADD. YARWAY REPLACEMENT PARTS 1986 ED NO ADD. AND 1974 ED WIN 74 ADD.

ORIGINAL ANCHOR DARLING VALVE 1971 ED WINTER 1972 ADD CC 1516-1, 1534, 1535-2 & 1334-2.

ANCHOR DARLING REPLACEMENT PARTS 1971 ED WINTER 1972 ADD.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29, 19/2000

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 10-15-99 to 4-25-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date JUNE 29 ~~19~~, 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 2 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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 SECTION 9 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) VALVE (PIPE PLUG)	BONNEY FORGE	HT # 9162	N/A	HV144F004	1998	REPLACEMENT	NO
9) VALVE BONNET	ANCHOR DARLING	HT # A-928	N/A	HV144F001	1988	REPLACED	YES
10) VALVE BONNET	FLOWSERVE	1	N/A	HV144F001	1999	REPLACEMENT	YES
11) VALVE (PIPE PLUG)	ANCHOR DARLING	E5853-23-1	N/A	HV144F001	1975	REPLACED	YES
12) VALVE (PIPE PLUG)	BONNEY FORGE	HT # 9162	N/A	HV144F001 *	1998	REPLACEMENT	NO
13) STEM/DISC ASSEMBLY	YARWAY	4902	N/A	144F003	1976	REPLACED	YES
14) STEM/DISC ASSEMBLY	YARWAY	90-1-2W1-E-1	N/A	144F003	1999	REPLACEMENT	YES
15) BACKSEAT BUSHING	YARWAY	4902	N/A	144F003	1976	REPLACED	YES
16) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	144F003	1993	REPLACEMENT	NO
17) STEM/DISC ASSEMBLY	YARWAY	A8643 (REMOVED FROM VALVE)	N/A	144F002	1976	REPLACED	YES
18) STEM/DISC ASSEMBLY	YARWAY	TEZG-A15	N/A	144F002	1999	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 3 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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 SECTION 9 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)
19) BACKSEAT BUSHING	YARWAY	A8643 (REMOVED FROM VALVE)	N/A	144F002	1976	REPLACED	YES
20) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	144F002	1984	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: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
2. Plant: Susquehanna Steam Electric Station (Name)
   PO Box 467, Berwick, PA 18603 (Address)
3. Work Performed by: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 4 of 4

Unit: ONE

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. Indentification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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 SECTION 9 REMARKS)

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
1-4	S91662	99-161-006	144F002, REPLACED STEM/DISC ASSEMBLY & BACKSEAT BUSHING	NON VT-2 Per MI-PS-008
5-8	105258	99-161-008	HV144F004, REPLACED GASKET RETAINING RING & BONNET PIPE PLUG	VT-2 PER SE-100-002, TEMP 168°F/PRESS 1040 PSIG
9-12	105259	99-161-009	HV144F001, REPLACED VALVE BONNET & BONNET PIPE PLUG	VT-2 PER SE-100-002, TEMP 168°F/PRESS 1040 PSIG
13-16	106268	99-161-010	144F003 REPLACED STEM/DISC ASSEMBLY & BACKSEAT BUSHING	NON VT-2 Per MI-PS-008
17-20	246731	00-161-011	144F002 REPLACED STEM/DISC ASSEMBLY & BACKSEAT BUSHING	NON VT-2 Per MI-PS-008

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

As Required by the Provisions of the ASME Code Rules P. O. # 40505

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 41201
(Name & Address of Manufacturer)

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

3. Owner MISSISSIPPI POWER AND LIGHT COMPANY

4. Location of Plant PORT GIBSON, MISSISSIPPI

5. Pump or Valve Identification NUCLEAR SERVICE VALVES SIZE - 1"

SERIAL NUMBER(S) A8640 THRU A8651 A8643
(Brief description of service for which equipment was designed)

(a) Drawing No. 103272-21 Prepared by YARWAY CORPORATION

(b) National Board No. ---

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

7. The material, design, construction, and workmanship complies with ASME Code Section III. Class 1

Edition 1974, Addenda Date WINTER 1974, Case No. NONE

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C7	AMS 5385	NOVA/HOWMET CORP.	DISC
(b) Forgings	B4	SA182 Gr. F316	CAPE ANN TOOL CO.	BODY
	6581	SA564 Gr. 630	CARTECH CORP.	BACKSEAT BUSHING

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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.

3/75 This form (E00037, may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017.

FORM NPV-1 (back)

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

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

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

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

Date JULY 27 19 79 Signed YARWAY CORPORATION (Manufacturer) By W. A. Volger
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 of Province of PENNSYLVANIA and employed by PHILADELPHIA MANUFACTURERS of MUTUAL INSURANCE CO. of PHILADELPHIA, PA.* have inspected the equipment described in this Data Report on JULY 27 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 JULY 27 19 79

N S Hewitt (Inspector)
N. S. HEWITT

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

*PART OF THE FACTORY MUTUAL SYSTEM

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., Allentown, PA 18101 (Susquehanna Station)
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part N/A Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C12259 Drawing Prepared by Anchor/Darling Valve Co.

(b) Description of Part Inspected Gasket Retaining Ring, Heat No. 89886-21 SA515-70

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Code No. N/A Class 1

3. Remarks 6"-600# Gate
(Brief description of service for which component was designed)
A/DV S.O. P-2895-2

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 1/20 1984 Signed Anchor/Darling Valve Co. By R. L. Stannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/86 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 or Province of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 12-21-83 thru 1-20-84, 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' ss of any kind arising from or connected with this inspection.

Date 1-20 1984

Russell E. Montgomery Commission Pennsylvania WC972
National Board, State, Province and No.

*Supplementary sketches in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information is clear as to the Data Report to which it is attached, and (3) each item is identified and number of items is recorded on each. "Designer"

(10/77)

This form (E00034) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

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

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

1. (a) Manufactured by Flowserve Corp., 701 First Street, Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co., 2 North Ninth Street, Allentown, PA 18101-1149
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N-1 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. D7912 Drawing Prepared by Flowserve Corp.

(b) Description of Part Inspected Bonnet Heat #A585A SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date W72, Case No. - Class 1

3. Remarks: 6" - 600# FW GATE
(Brief description of service for which component was designed)

Flowserve Shop Order #P509F-2

No bonnet hydro performed

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

Date 12/20 19 99 Signed Flowserve Corp. By R L Stennett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/01 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 ~~or Province 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 10-12-99 to 12-21-99 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 12-21 19 99

Charles Young
Inspector's Signature

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

*Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1-3 on this Data Report is included on each sheet, and (3) each sheet is referenced to item 3, "Remarks".

WIP ORDER 5019652 SALES ORDER NO 2015457

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 969155-08 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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) 90-1-2W1-E1 ✓	—	(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 N/A (when applicable) at temp. °F
**FOR ANSI CLASS 1500 VALVES

*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

FTI OP SUP FSG

FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 * ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [illegible] (Authorized Inspector) Commissions NB9541 'N' PA2388 (Nat'l. Bd. [incl. endorsements] state or prov. and no.),

FTI OP SUP FBG

WIP ORDER 5019652

SALES ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25		(50)	

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

*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

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FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 * ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [signature] (Authorized Inspector) Commissions NB9541'N' PA2389 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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PBG

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 1

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

Unit: ONE

WORK ORDER# 104886 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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 COMMENTS 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) BACKSEAT BUSHING	YARWAY	6078	N/A	144009A	1976	REPLACED	YES
2) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	144009A	1984	REPLACEMENT	NO
3) STEM/DISC ASSEMBLY	YARWAY	6279	N/A	144009B	1976	REPLACED	YES
4) STEM/DISC ASSEMBLY	YARWAY	TEZG-A22	N/A	144009B	1999	REPLACEMENT	YES
5) BACKSEAT BUSHING	YARWAY	6279	N/A	144009B	1976	REPLACED	YES
6) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	144009B	1984	REPLACEMENT	NO

7. Description of Work: 144009A REPLACE BACKSEAT BUSHING & 144009B REPLACED STEM & BACKSEAT BUSHING

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. ORIGINAL YARWAY VALVE CODE OF CONSTRUCTION
Applicable Manufacturer's Data Reports to be attached

1974 ED WINTER 1974 ADD. YARWAY REPLACEMENT PARTS 1986 EDITION NO ADDENDA

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date June 29, 19 2000

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 2-1-2000 to 4-16-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date JUNE 29, 19 2000

WIP ORDER 5019652 SALES ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25	—	(50)	

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

*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

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FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 * ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [illegible] (Authorized Inspector) Commissions NB9541 'N' PA2389 (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 4

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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)
1) HEAT EXCHANGER	GENERAL ELECTRIC	223408	52970	1E208	1972	REPAIRED	YES
2) HEAT EXCH (BOLTING)	GENERAL ELECTRIC	223408	52970	1E208	1972	REPLACED	YES
3) HEAT EXCH (BOLTING)	PP&L	N/A	N/A	1E208	1999	REPLACEMENT	NO
4) HEAT EXCHANGER	GENERAL ELECTRIC	223408	52970	1E208	1972	REPAIRED	YES
5) STEM/DISC ASSEMBLY	YARWAY	6265	N/A	144006A	1976	REPLACED	YES
6) STEM/DISC ASSEMBLY	YARWAY	HT CD # C7	N/A	144006A	1979	REPLACEMENT	YES
7) BACKSEAT BUSHING	YARWAY	6265	N/A	144006A	1976	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** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Date June 29, 19 2000
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 12-11-98 to 4-21-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date JUNE 29, 19 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 2 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	144006A	1998	REPLACEMENT	NO
9) STEM/DISC ASSEMBLY	YARWAY	6245	N/A	144006B	1979	REPLACED	YES
10) STEM/DISC ASSEMBLY	YARWAY	AV94-B19	N/A	144006B	1998	REPLACEMENT	YES
11) BACKSEAT BUSHING	YARWAY	6245	N/A	144006B	1979	REPLACED	YES
12) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	144006B	1998	REPLACEMENT	NO
13) STEM/DISC ASSEMBLY	YARWAY	6401	N/A	144F018C	1976	REPLACED	YES
14) STEM/DISC ASSEMBLY	YARWAY	TEZG-A25	N/A	144F018C	1999	REPLACEMENT	YES
15) BACKSEAT BUSHING	YARWAY	6401	N/A	144F018C	1976	REPLACED	YES
16) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	144F018C	1984	REPLACEMENT	NO
17) STEM/DISC ASSEMBLY	YARWAY	6064	N/A	144F019C	1983	REPLACED	YES
18) STEM/DISC ASSEMBLY	YARWAY	TEZG-A12	N/A	144F019C	1999	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 3 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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)
19) BACKSEAT BUSHING	YARWAY	6064	N/A	144F019C	1976	REPLACED	YES
20) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	144F019C	1984	REPLACEMENT	NO
21) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDBC101-1	1982	REPLACED	YES
22) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPDBC101-1	2000	REPLACEMENT	NO
23) VALVE	YARWAY	6581	N/A	144011A	1976	REPLACED	YES
24) VALVE	FLOWSERVE	E660A-1-13	N/A	144011A	1999	REPLACEMENT	YES
25) VALVE	YARWAY	6577	N/A	144011B	1976	REPLACED	YES
26) VALVE	FLOWSERVE	E660A-1-16	N/A	144011B	1999	REPLACEMENT	YES
27) VALVE DISC	ANCHOR DARLING	ET044-3-2	N/A	144F043B	1992	REPLACED	YES
28) VALVE DISC	ANCHOR DARLING	S/N 8 HT # T8962	N/A	144F043B	1993	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 4 of 4

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

Unit: ONE

SEE LIST BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: REACTOR WATER CLEAN-UP SYSTEM 161B, 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 AUTH./ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	CODE OF CONSTRUCTION	DESCRIPTION OF TESTS
1-3	S85145	98-161-007	1E208, REPAIRED DIAPHRAGM LEAK BY WELDING AND REPLACED BOLTING	HT EXCH, ASME SEC VIII 72 ED	VT-2, PER TP-000-001, TEMP 510°F, PRESS 1200 PSIG
4	S90486	99-161-001	1E208, REPAIRED DIAPHRAGM LEAK BY WELDING NEW NON-SAFETY DIAPHRAGM	HT EXCH, ASME SEC VIII 72 ED	VT-1 BOLTING, VT-2 PER TP-000-001,TEMP 520°F, PRESS 1220 PSIG
5-8	S98694	99-161-004	144006A, REPLACE STEM/DISC ASSEM AND BACKSEAT BUSHING	ORIG VAL 74ED WIN 74 ADD REPL DISC 74 ED WIN 75 ADD	NON VT-2 PER MI-PS-008
9-12	S98694	99-161-005	144006B, REPLACE STEM/DISC ASSEM AND BACKSEAT BUSHING	ORIG VAL 74ED WIN 74 ADD REPL DISC 86 ED NO ADD	NON VT-2 PER MI-PS-008
13-16	104887	00-161-002	144F018C, REPLACE STEM/DISC ASSEM AND BACKSEAT BUSHING	ORIG VAL 74ED WIN 74 ADD REPL DISC 86 ED NO ADD	NON VT-2 PER MI-PS-008
17-20	104887	00-161-003	144F019C, REPLACE STEM/DISC ASSEM AND BACKSEAT BUSHING	ORIG VAL 74ED WIN 74 ADD REPL DISC 86 ED NO ADD	NON VT-2 PER MI-PS-008
21-26	104893	00-161-012	144011A, 144011B & SPDBC101-1 REPLACED VALVES & ASSOC PIPE	ORIG VALVE 74ED WIN 74 ADD; REPL VALVE 86 ED NO ADD	NON VT-2 PER MI-PS-008
27-28	105820	00-161-013	144F043B, REPLACED VALVE DISC	ORIG VAL 71ED WIN 72 ADD CC 1516-1 & 1534 REPL DISC 71 ED WIN 72 ADD	NON VT-2 PER MI-PS-008

WIP ORDER 5006907 SALES ORDER NO 2003656

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

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

1 Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (matl. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1998 (year built)

5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)

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

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)	FTI OP SUP PBG
(21) AV94-B21	—	(46)	
(22) AV94-B22	—	(47)	
(23) AV94-B23	—	(48)	
(24) AV94-B24	—	(49)	
(25) AV94-B25	—	(50)	

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

mental 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)

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Mfr Serial No SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 (NPT Certificate Holder) Signed F. W. Peszka (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

5/21/98 Signed _____ (Authorized Inspector) Commissions PA2389 'N' 'S' (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

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WIP ORDER 5019652

SALES ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25		(50)	

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

*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

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PAGE 7 OF 25

FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 *ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [illegible] (Authorized Inspector) Commissions NB8541'N' PA2399 (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

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

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

1. Manufactured and certified by Flowserve Corp. 701 First Street, Williamsport, PA 17701 (name and address of N Certificate Holder)
2. Manufactured for Pennsylvania Power & Light Company Two North Ninth Street, Allentown, PA 18101 (name and address of Purchaser or Owner)
3. Location of installation Susquehanna Station 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 (edition) N/A (addenda date) 1 (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1" (in.) Outlet size 1" (in.)
7. Material: Body SA216-WCB Bonnet N/A Disk AMS-5387 Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E-660A-1-9	N/A	1	N/A	HT #1899
E-660A-1-10	N/A	3	N/A	HT #1899
E-660A-1-11	N/A	4	N/A	HT #1899
E-660A-1-12	N/A	10	N/A	HT #1899
E-660A-1-13	N/A	11	N/A	HT #1899
E-660A-1-14	N/A	17	N/A	HT #1899
E-660A-1-15	N/A	19	N/A	HT #1899
E-660A-1-16	N/A	21	N/A	HT #1899
E-660A-1-17	N/A	22	N/A	HT #1899
E-660A-1-18	N/A	23	N/A	HT #1899

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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 1" - 1500# Y-Globe Valve w/10" Tee Handle
Reference S.O. E-660A-1

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

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. (N Certificate Holder) Signed R L Stannett (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 ~~Province~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 2/9 thru 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 (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

Charles Young

(1) For manually operated valves only.

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co., 2 N. 9th St., Allentown, PA 18101
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N - 8 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C20128 Drawing Prepared by Anchor/Darling Valve Company

(b) Description of Part Inspected Disc, Heat No. T8962 SA216-WCB

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date Wnt '72, Case No. --- Class 3

3. Remarks: 4"-900#-Gate
(Brief description of service for which component was designed)

A/DV Shop Order P-W111-4

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 6/21/93 19 93 Signed Anchor/Darling Valve Co. By R L Stannet
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/95 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 ~~XXXXXXXX~~ 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 3-18-93 thru 6-21-93 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 6-21 19 93

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) size is 8½" 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".

(10/77)

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

9 3 2 2 1 0 5 0 2

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0085	N/A	PSV 141F013A	1981	REPLACED	YES
2) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0086	N/A	PSV 141F013A	1981	REPLACEMENT	YES
3) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0022	N/A	PSV 141F013B	1983	REPAIRED	YES
4) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0022 (VALVE)	N/A	PSV 141F013B	1980	REPLACED	YES
5) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N93185-37-0071 (DISC INSERT)	N/A	PSV 141F013B	1987	REPLACEMENT	NO
6) MAIN STEAM RELIEF VALVE (DUAL DIA STUD)	CROSBY	N63790-00-0022	N/A	PSV 141F013B	1980	REPLACED	YES
7) MAIN STEAM RELIEF VALVE (DUAL DIA STUD)	ALLIED	TRACE CODE B7-A78	N/A	PSV 141F013B	1998	REPLACEMENT	NO

7. Description of Work: SEE SHEET(S) 15-17

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure * psi Test Temp. * °F SEE SHEET(S) 15-17

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29, 19 2000

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 8-20-99 to 4-19-00, 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.

[signature] Commissions NB 7525 IB/NA PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 29 19 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 2 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) MAIN STEAM RELIEF VALVE (STUD)	CROSBY	N63790-00-0022	N/A	PSV 141F013B	1980	REPLACED	YES
9) MAIN STEAM RELIEF VALVE (STUD)	NOVA	TRACE CODE AGT	N/A	PSV 141F013B	1995	REPLACEMENT	NO
10) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0093	N/A	PSV 141F013B	1981	REPLACED	YES
11) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0022	N/A	PSV 141F013B	1980	REPLACEMENT	YES
12) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0092	N/A	PSV 141F013E	1983	REPAIRED	YES
13) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0092 (VALVE)	N/A	PSV 141F013E	1983	REPLACED	YES
14) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N93185-62-0275 (DISC INSERT)	N/A	PSV 141F013E	1996	REPLACEMENT	YES
15) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0030	N/A	PSV 141F013E	1980	REPLACED	YES
16) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0092	N/A	PSV 141F013E	1983	REPLACEMENT	YES
17) MAIN STEAM RELIEF VALVE (DISC INSERT)	CROSBY	N63790-00-0032 (VALVE)	N/A	PSV 141F013F	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 3 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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 (DISC INSERT)	CROSBY	N93185-57-0255 (DISC INSERT)	N/A	PSV 141F013F	1994	REPLACEMENT	NO
19) MAIN STEAM RELIEF VALVE (NOZZLE)	CROSBY	N63790-00-0032 (VALVE)	N/A	PSV 141F013F	1980	REPLACED	YES
20) MAIN STEAM RELIEF VALVE (NOZZLE)	CROSBY	N93184-38-0068 (NOZZLE)	N/A	PSV 141F013F	1987	REPLACEMENT	NO
21) MAIN STEAM RELIEF VALVE (7 STUDS TOTAL)	CROSBY	N63790-00-0032 (VALVE)	N/A	PSV 141F013F	1980	REPLACED	YES
22) MAIN STEAM RELIEF VALVE (7 STUDS TOTAL)	ALLIED	N/A	N/A	PSV 141F013F	N/A	REPLACEMENT	NO
23) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0129	N/A	PSV 141F013F	1982	REPLACED	YES
24) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0032	N/A	PSV 141F013F	1980	REPLACEMENT	YES
25) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0132	N/A	PSV 141F013H	1982	REPLACED	YES
26) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0029	N/A	PSV 141F013H	1980	REPLACEMENT	YES
27) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0034	N/A	PSV 141F013L	1980	REPLACED	YES
28) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0019	N/A	PSV 141F013L	1980	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 4 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of 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) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0019 VALVE	N/A	PSV 141F013L	1980	REPLACED	YES
30) MAIN STEAM RELIEF VALVE (NUTS)	PP&L	N/A	N/A	PSV 141F013L	2000	REPLACEMENT	NO
31) MAIN STEAM RELIEF VALVE (DUAL DIA STUD)	CROSBY	N63790-00-0094	N/A	PSV 141F013M	1981	REPLACED	YES
32) MAIN STEAM RELIEF VALVE (DUAL DIA STUD)	ALLIED	TRACE CODE TC-Y70	N/A	PSV 141F013M	1996	REPLACEMENT	NO
33) MAIN STEAM RELIEF VALVE (STUD)	CROSBY	N63790-00-0094	N/A	PSV 141F013M	1981	REPLACED	YES
34) MAIN STEAM RELIEF VALVE (STUD)	NOVA	TRACE CODE AGT	N/A	PSV 141F013M	1995	REPLACEMENT	NO
35) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0096	N/A	PSV 141F013M	1981	REPLACED	YES
36) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0094	N/A	PSV 141F013M	1981	REPLACEMENT	YES
37) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-00130	N/A	PSV 141F013S	1982	REPAIRED	YES
38) MAIN STEAM RELIEF VALVE (SPINDLE ASSEMBLY)	CROSBY	N63790-00-00130 (VALVE)	N/A	PSV 141F013S	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 5 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
39) MAIN STEAM RELIEF VALVE (SPINDLE ASSEMBLY)	CROSBY	N82137-40-0022	N/A	PSV 141F013S	1987	REPLACEMENT	YES
40) MAIN STEAM RELIEF VALVE (STUD)	CROSBY	N63790-00-0130	N/A	PSV 141F013S	1982	REPLACED	YES
41) MAIN STEAM RELIEF VALVE (STUD)	NOVA	TRACE CODE AGT	N/A	PSV 141F013S	1995	REPLACEMENT	NO
42) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0095	N/A	PSV 141F013S	1981	REPLACED	YES
43) MAIN STEAM RELIEF VALVE	CROSBY	N63790-00-0130	N/A	PSV 141F013S	1982	REPLACEMENT	YES
44) MAIN STEAM RELIEF VALVE (NUTS)	CROSBY	N63790-00-0130 (VALVE)	N/A	PSV 141F013S	1982	REPLACED	YES
45) MAIN STEAM RELIEF VALVE (NUTS)	UNY.TITE	TRACE CODE P46	N/A	PSV 141F013S	1997	REPLACEMENT	NO
46) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DCA-111-2 FLANGE M1& M2	1982	REPLACED	YES
47) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DCA-111-2 FLANGE M1& M2	2000	REPLACEMENT	NO
48) LARGE PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	DBA-112-1 FLANGE M1	1982	REPLACED	YES
49) LARGE PIPE SUBASSEMBLY	PP&L	N/A	N/A	DBA-112-1 FLANGE M1	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 6 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
50) SMALL PIPE SUBASSEMBLY	BECHTEL	N/A	N/A	SP-DBA-112-5	1982	REPLACED	YES
51) SMALL PIPE SUBASSEMBLY	PP&L	N/A	N/A	SP-DBA-112-5	2000	REPLACEMENT	NO
52) CONTROL ROD DRIVE	GE	8210	N/A	02-19 (CORE LOC.)	1978	REPLACED	YES
53) CONTROL ROD DRIVE	GE	7887	N/A	02-19 (CORE LOC.)	1978	REPLACEMENT	YES
54) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	02-19 (CORE LOC.)	1978	REPLACED	NO
55) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	02-19 (CORE LOC.)	2000	REPLACEMENT	NO
56) CONTROL ROD DRIVE	GE	8473	N/A	02-43 (CORE LOC.)	1978	REPLACED	YES
57) CONTROL ROD DRIVE	GE	8303	N/A	02-43 (CORE LOC.)	1978	REPLACEMENT	YES
58) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	02-43 (CORE LOC.)	1978	REPLACED	NO
59) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	02-43 (CORE LOC.)	2000	REPLACEMENT	NO
60) CONTROL ROD DRIVE	GE	8230	N/A	10-39 (CORE LOC.)	1981	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 7 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
61) CONTROL ROD DRIVE	GE	A2722	N/A	10-39 (CORE LOC.)	1981	REPLACEMENT	YES
62) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	10-39 (CORE LOC.)	1981	REPLACED	NO
63) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	10-39 (CORE LOC.)	2000	REPLACEMENT	NO
64) CONTROL ROD DRIVE	GE	9475	N/A	14-15 (CORE LOC.)	1978	REPLACED	YES
65) CONTROL ROD DRIVE	GE	9471	N/A	14-15 (CORE LOC.)	1978	REPLACEMENT	YES
66) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	14-15 (CORE LOC.)	1981	REPLACED	NO
67) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	14-15 (CORE LOC.)	2000	REPLACEMENT	NO
68) CONTROL ROD DRIVE	GE	9217	N/A	14-43 (CORE LOC.)	1978	REPLACED	YES
69) CONTROL ROD DRIVE	GE	9348	N/A	14-43 (CORE LOC.)	1978	REPLACEMENT	YES
70) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	14-43 (CORE LOC.)	1981	REPLACED	NO
71) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	14-43 (CORE LOC.)	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 8 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
72) CONTROL ROD DRIVE	GE	A3686	N/A	18-31 (CORE LOC.)	1981	REPLACED	YES
73) CONTROL ROD DRIVE	GE	7863	N/A	18-31 (CORE LOC.)	1978	REPLACEMENT	YES
74) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	18-31 (CORE LOC.)	1981	REPLACED	NO
75) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	18-31 (CORE LOC.)	2000	REPLACEMENT	NO
76) CONTROL ROD DRIVE	GE	A4322	N/A	22-07 (CORE LOC.)	1981	REPLACED	YES
77) CONTROL ROD DRIVE	GE	7927	N/A	22-07 (CORE LOC.)	1984	REPLACEMENT	YES
78) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	22-07 (CORE LOC.)	1981	REPLACED	NO
79) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	22-07 (CORE LOC.)	2000	REPLACEMENT	NO
80) CONTROL ROD DRIVE	GE	8505	N/A	22-51 (CORE LOC.)	1984	REPLACED	YES
81) CONTROL ROD DRIVE	GE	A4660	N/A	22-51 (CORE LOC.)	1981	REPLACEMENT	YES
82) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	22-51 (CORE LOC.)	1981	REPLACED	NO

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
83) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	22-51 (CORE LOC.)	2000	REPLACEMENT	NO
84) CONTROL ROD DRIVE	GE	8864	N/A	30-43 (CORE LOC.)	1978	REPLACED	YES
85) CONTROL ROD DRIVE	GE	7621	N/A	30-43 (CORE LOC.)	1978	REPLACEMENT	YES
86) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	30-43 (CORE LOC.)	1981	REPLACED	NO
87) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	30-43 (CORE LOC.)	2000	REPLACEMENT	NO
88) CONTROL ROD DRIVE	GE	A4495	N/A	30-59 (CORE LOC.)	1981	REPLACED	YES
89) CONTROL ROD DRIVE	GE	9281	N/A	30-59 (CORE LOC.)	1978	REPLACEMENT	YES
90) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	30-59 (CORE LOC.)	1981	REPLACED	NO
91) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	30-59 (CORE LOC.)	2000	REPLACEMENT	NO
92) CONTROL ROD DRIVE	GE	9418	N/A	34-03 (CORE LOC.)	1981	REPLACED	YES
93) CONTROL ROD DRIVE	GE	7899	N/A	34-03 (CORE LOC.)	1978	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
94) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	34-03 (CORE LOC.)	1981	REPLACED	NO
95) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	34-03 (CORE LOC.)	2000	REPLACEMENT	NO
96) CONTROL ROD DRIVE	GE	9137	N/A	06-23 (CORE LOC.)	1978	REPLACED	YES
97) CONTROL ROD DRIVE	GE	8818	N/A	06-23 (CORE LOC.)	1978	REPLACEMENT	YES
98) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	06-23 (CORE LOC.)	1981	REPLACED	NO
99) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	06-23 (CORE LOC.)	2000	REPLACEMENT	NO
100) CONTROL ROD DRIVE	GE	A983	N/A	14-07 (CORE LOC.)	1978	REPLACED	YES
101) CONTROL ROD DRIVE	GE	A1058	N/A	14-07 (CORE LOC.)	1978	REPLACEMENT	YES
102) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	14-07 (CORE LOC.)	1981	REPLACED	NO
103) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	14-07 (CORE LOC.)	2000	REPLACEMENT	NO
104) CONTROL ROD DRIVE	GE	7295	N/A	38-51 (CORE LOC.)	1978	REPLACED	YES

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 11 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
105) CONTROL ROD DRIVE	GE	7715	N/A	38-51 (CORE LOC.)	1984	REPLACEMENT	YES
106) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	38-51 (CORE LOC.)	1981	REPLACED	NO
107) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	38-51 (CORE LOC.)	2000	REPLACEMENT	NO
108) CONTROL ROD DRIVE RING FLG (CAPSCREWS)	GE	8223	N/A	42-11 (CORE LOC.)	1978	REPLACED	NO
109) CONTROL ROD DRIVE RING FLG (CAPSCREWS)	PP&L	8223	N/A	42-11 (CORE LOC.)	1978	REPLACEMENT	NO
110) CONTROL ROD DRIVE	GE	A5621	N/A	42-11 (CORE LOC.)	1981	REPLACED	YES
111) CONTROL ROD DRIVE	GE	8223	N/A	42-11 (CORE LOC.)	1978	REPLACEMENT	YES
112) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	42-11 (CORE LOC.)	1981	REPLACED	NO
113) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	42-11 (CORE LOC.)	2000	REPLACEMENT	NO
114) CONTROL ROD DRIVE	GE	8467	N/A	46-11 (CORE LOC.)	1978	REPLACED	YES
115) CONTROL ROD DRIVE	GE	7821	N/A	46-11 (CORE LOC.)	1978	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: PP&L, Inc. (Name) — Date: 06/26/2000
   Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 12 of 18
2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE
   PO Box 467, Berwick, PA 18603 (Address) — SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None
   Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A
   Expiration Date: N/A
4. Indentification 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 (* SEE CODE EDITION PAGE 18)
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
116) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	46-11 (CORE LOC.)	1981	REPLACED	NO
117) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	46-11 (CORE LOC.)	2000	REPLACEMENT	NO
118) CONTROL ROD DRIVE	GE	7136	N/A	46-43 (CORE LOC.)	1978	REPLACED	YES
119) CONTROL ROD DRIVE	GE	A5600	N/A	46-43 (CORE LOC.)	1981	REPLACEMENT	YES
120) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	46-43 (CORE LOC.)	1981	REPLACED	NO
121) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	46-43 (CORE LOC.)	2000	REPLACEMENT	NO
122) CONTROL ROD DRIVE	GE	7776	N/A	26-19 (CORE LOC.)	1978	REPLACED	YES
123) CONTROL ROD DRIVE	GE	7536	N/A	26-19 (CORE LOC.)	1984	REPLACEMENT	YES
124) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	26-19 (CORE LOC.)	1981	REPLACED	NO
125) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	26-19 (CORE LOC.)	2000	REPLACEMENT	NO
126) CONTROL ROD DRIVE	GE	8500	N/A	50-35 (CORE LOC.)	1978	REPLACED	YES

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
127) CONTROL ROD DRIVE	GE	7817	N/A	50-35 (CORE LOC.)	1978	REPLACEMENT	YES
128) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	50-35 (CORE LOC.)	1981	REPLACED	NO
129) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	50-35 (CORE LOC.)	2000	REPLACEMENT	NO
130) CONTROL ROD DRIVE	GE	A1045	N/A	58-43 (CORE LOC.)	1978	REPLACED	YES
131) CONTROL ROD DRIVE	GE	8860	N/A	58-43 (CORE LOC.)	1978	REPLACEMENT	YES
132) CONTROL ROD DRIVE (BOLTS)	GE	N/A	N/A	58-43 (CORE LOC.)	1981	REPLACED	NO
133) CONTROL ROD DRIVE (8 BOLTS)	PP&L	N/A	N/A	58-43 (CORE LOC.)	2000	REPLACEMENT	NO
134) VALVE STEM	ATWOOD & MORRILL	2-221 (VALVE)	N/A	HV141F022B	1974	REPLACED	YES
135) VALVE STEM	ATWOOD & MORRILL	HT# 51354 S/N # 3	N/A	HV141F022B	1999	REPLACEMENT	NO
136) VALVE STEM	ATWOOD & MORRILL	4-221 (VALVE)	N/A	HV141F022D	1974	REPLACED	YES
137) VALVE STEM	ATWOOD & MORRILL	HT# 8656687 S/N # 2	N/A	HV141F022D	1999	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
138) VALVE STEM	ATWOOD & MORRILL	3-221 (VALVE)	N/A	HV141F022C	1974	REPLACED	YES
139) VALVE STEM	ATWOOD & MORRILL	HT# 51354 S/N # 2	N/A	HV141F022C	1999	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 15 of 18

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

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
1-2	100443	99-162-003	PSV 141F013A, REPLACED RELIEF VALVE	VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
3-9	100450	99-162-011	PSV 141F013B, REPAIRED RELIEF VLV NOZZLE BY MACHINING AND REPLACED DISC INSERT & INLET STUDS (2)	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/O # 100444
10-11	100444	99-162-004	PSV 141F013B, REPLACED RELIEF VALVE	VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
12-14	100450	99-162-013	PSV 141F013E, REPAIRED RELIEF VLV NOZZLE BY MACHINING AND REPLACED DISC INSERT	VT-2 DURING INSTALLATION PER W/O # 100445
15-16	100445	99-162-005	PSV 141F013E, REPLACED RELIEF VALVE	VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
17-22	100450	99-162-012	PSV 141F013F, REPLACED RELIEF VLV NOZZLE, DISC INSERT & STUDS (7)	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/O # 100445
23-24	100446	99-162-006	PSV 141F013F, REPLACED RELIEF VALVE	VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
25-26	100447	99-162-007	PSV 141F013H, REPLACED RELIEF VALVE	VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
27-30	100448	99-162-008	PSV 141F013L, REPLACED RELIEF VALVE & NUTS (3)	VT-1 for inlet nuts, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
31-34	100450	99-162-014	PSV 141F013M, REPLACED RELIEF VLV INLET STUDS (3)	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/O # 100449
35-36	100449	99-162-009	PSV 141F013M, REPLACED RELIEF VALVE	VT-1 for inlet bolting, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
37-41	100450	99-162-015	PSV 141F013S, REPAIRED RELIEF VLV LOWER SPRING WASHER AND THRUST BEARING BY MACHINING AND REPLACED SPINDLE ASSEMBLY AND INLET STUD (1)	VT-1 for inlet bolting, VT-2 DURING INSTALLATION PER W/O # 100363
42-45	100363	99-162-010	PSV 141F013S, REPLACED RELIEF VALVE AND NUTS	VT-1 for inlet nuts, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
46-47	105247	99-162-017 & 99-162-018	DCA-111-2, FLANGE M1 & M2 REPLACED STUDS AND NUTS	VT-1 BOLTING, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
48-49	105247	99-162-020	DBA-112-1, FLANGE M1 REPLACED STUDS	VT-1 BOLTING, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG

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

1. Owner: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

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

Unit: ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)

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
50-51	105247	99-162-021 & 99-162-022	SP-DBA-112-5, IT # 13 & 14, IT # 15 & 16 REPLACED STUDS	VT-1 BOLTING, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
52-55	100681	99-162-023	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 02-19	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
56-59	100682	99-162-024	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 02-43	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
60-63	100683	99-162-025	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 10-39	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
64-67	100684	99-162-026	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 14-15	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
68-71	100685	99-162-027	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 14-43	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
72-75	100686	99-162-028	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 18-31	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
76-79	100687	99-162-029	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 22-07	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
80-83	100688	99-162-030	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 22-51	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
84-87	100689	99-162-031	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 30-43	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
88-91	100690	99-162-032	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 30-59	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
92-95	100691	99-162-033	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 34-03	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
96-99	100692	99-162-034	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 06-23	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
100-103	100693	99-162-035	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 14-07	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
104-107	100694	99-162-036	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 38-51	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG

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

1. Owner: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
2. Plant: Susquehanna Steam Electric Station (Name)
   PO Box 467, Berwick, PA 18603 (Address)
3. Work Performed by: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000
Sheet 17 of 18
Unit: ONE
SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)
Type Code Symbol Stamp: None
Authorization No.: N/A
Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION PAGE 18)
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
108-109	245688	00-162-001	REPLACED CONTROL ROD DRIVE RING FLANGE CAP SCREWS 42-11	VT-1 CAP SCREWS, VT-2 AT INSTALLATION PER 100695
110-113	100695	99-162-037	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 42-11	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
114-117	100696	99-162-038	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 46-11	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
118-121	100697	99-162-039	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 46-43	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
122-125	100698	99-162-040	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 26-19	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
126-129	100699	99-162-041	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 50-35	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
130-133	100700	99-162-042	REPLACED CONTROL ROD DRIVE AND BOLTS AT CORE LOC. 58-43	VT-1 CAP SCREWS, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
134-135	195978	00-162-002	HV-141F022B; REPLACED VALVE STEM	VT-3 STEM, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
136-137	196005	00-162-003	HV-141F022D; REPLACED VALVE STEM	VT-3 STEM, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG
138-139	243710	00-162-004	HV-141F022C; REPLACED VALVE STEM	VT-3 STEM, VT-2 PER SE-100-002 TEMP 168°/PRESS 1040 PSIG

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

1. Owner: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/20/2000

Sheet 18 of 18

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

Unit: UNIT ONE

SEE SHEET(S) 15-17 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 (* SEE CODE EDITION BELOW)

6. Identification of Components Repaired or Replaced and Replacement Components

SUPPLEMENT 5 (a)

COMPONENT MANUFACTURER	CODE OF CONSTRUCTION / CODE CASE(S)
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
Crosby Valve & Gage Co. Replacement Parts; Disc Inserts	Replacement Code is ASME Section III, 1971 Edition NO Addenda & 1974 Edition Summer 75 Addenda
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
ATWOOD & MORRILL (ORIGINAL VALVE CODE OF CONSTRUCTION)	ASME Section III, 1971 Ed. Summer '71 Add. Code Case 1535-2
ATWOOD & MORRILL (REPLACEMENT STEMS)	ASME Section III, 1986 Ed. Summer '87 Add.

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

QC-70B-3

CROSBY FACTORY ORDER NO. N7841000

CROSBY ITEM NO. 008

CUSTOMER ORDER NO. 7-11210-1

CUSTOMER ITEM NO. 008

CERTIFICATE OF AUTHORIZATION
NO. N-1877 EXPIRES: 9/30/89

CERTIFICATE OF COMPLIANCE

The Crosby Valve & Gage Company hereby certifies that Part See Below, Part No. See Below, Serial No. (if applicable) See Below, meets the requirements of the subject customer purchase order for Material Specification, Customer Specification, Code Edition and Addenda, Class, applicable drawing; and that all required tests, and inspections, have been performed; and the item is interchangeable with the same item supplied in the original equipment.

Part	Part Number	Serial Number
Disc Insert	N93185	N93185-37-0063
Disc Insert	N93185	N93185-37-0064
Disc Insert	N93185	N93185-37-0065
Disc Insert	N93185	N93185-37-0066
Disc Insert	N93185	N93185-37-0067
Disc Insert	N93185	N93185-37-0068
Disc Insert	N93185	N93185-37-0069
Disc Insert	N93185	N93185-37-0070
Disc Insert	N93185	N93185-37-0071
Disc Insert	N93185	N93185-37-0072
Disc Insert	N93185	N93185-37-0073
Disc Insert	N93185	N93185-37-0074
Disc Insert	N93185	N93185-37-0075
Disc Insert	N93185	N93185-37-0076
Disc Insert	N93185	N93185-37-0077
Disc Insert	N93185	N93185-37-0078
Disc Insert	N93185	N/A
Pin	106257	

Rena Mullaney
CROSBY QA RECORDS SPECIALIST

July 24, 1987
DATE

RECORD PROVIDED PAGE 1 OF 1

PHONES
AREA CODE 312
772-6700

TWX
910-221-1357

CHARLES E. LARSON & SONS
OPEN DIE FORGINGS

A Corrected Copy
8-7-87
EM

TO

Crosby Valve & Gage Co.

Wrentham, Mass.02093

CERTIFICATION CHECKED AND FOUND TO MEET ALL THE REQUIREMENTS OF ASTM A 637-70 Gr. 718
X. Perry 8/7/87

CUSTOMER ORDER NO.	DATE SHIPPED	HEAT NO.	SPECIFICATION-GRADE
00960	6-23-87	9-11592	ASME SA-637 Gr.718

ITEM	QUANTITY	DESCRIPTION
2	16-	FRCM93169 Insert forgings made,solution annealed,aged & rough turned as per drg.no. P-M93168,Rev.A

The forgings were heated to 1775°F, ½ Hour, Air-cooled.
The forgings were re-heated to 1325°F, 8 hours,furnace cooled @100°F. per hour to 1150°F,held at temp.for 8 more hours,then air-cooled. (Total Time 18 Hours).

The forgings comply with the ASME B. & P.V.Code,Sections II & III, Section III, Para.NCA-3800 and per Larson Q.C.Manual,Rev.4 dated 9/1/81 as approved by Crosby.

Stress Rupture @1200°F: Stress-100,000 PSI Rupture Time-60.2 Hours
Elongation-19.6% / Red.of Area-40.1%

Stress Rupture Diameter: .25 2 inches

Forgings in accordance with QAI-3224,Suppl.1,Rev.8 , Forging procedure P-2079,Rev.3 and SQR-1,Rev.3

CROSBY FINAL DOCUMENTATION
PART DISC Forgings
CROSBY S/N 9-11592
HEAT NO. 9-11592
F.O. 47R4000 ITEM 008
CUSTOMER P.O. 7-1210-1

CERTIFICATION REVIEWED IN ACCORDANCE WITH CROSBY QC-110 AND MEETS ALL THE REQUIREMENTS OF ASME 1977 EDITION SUMMER 1978 ADDENDA. X. Perry 8/28/87

No. 87-1000
RECORD PACKAGE
PAGE 10 OF 73

REPORTED LADLE ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Mo	V	Cu	Co	Cb/Ta
.034	.07	.013	.002	.11	53.80	18.10	2.98		.05	.52	
.031	.10	.013	.001	.17	54.3	17.9	2.89		.17	.57	5.36

Nb/Ta	Al	Sn	Fe	Ti	B	Pb	Bi	Mg	Ca	Ag	CE. analysis
5.29	.50	<50ppm	17.45	.99	.003	<10ppm	<1ppm	<100ppm	.010	<10ppm	(Ladle)
	.64		18.6	1.04	.003 (Ck.analysis)						

MECHANICAL PROPERTIES

HARDNESS	TENSILE (PSI)	YIELD (PSI)	%ELONG. IN 2"	%RED. IN AREA
415 BHN	210,150	186,000	14%	24%

ULTRASONIC TEST RESULTS
UT per U1928,Rev.2 & U18-24,Rev.3
(See attached UT report)
Q.A. L.R. JUL 1 1987

JOMINY HARDENABILITY BY 1/16"

GRAIN SIZE	1	2	3	4	5	6	7	8	9	10	12	14	16	20	24	28	32

SUBSCRIBED AND SWORN TO BEFORE ME
THIS 23rd. DAY OF June.,1987

NOTARY PUBLIC

MY COMMISSION EXPIRES OCTOBER 10, 1989

CHARLES E. LARSON & SONS, INC.

FORGERS OF CARBON, ALLOY, STAINLESS & TOOL STEELS, COPPER, MONEL, INCONEL, HIGH TEMPERATURE & EXOTIC METALS

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MA

*CORRECTED BAC 21APR98 KAH 4-21-98

Q.C.-392
SHEET 1 OF 2

FORM N-2, N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES
As Required by the Provisions of the ASME Code, Section III, Division 1 - Not to Exceed One Day's Production

1. Manufactured and certified by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093
(Name and Address of N Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT CO. BERWICK, PA
(Name and Address of Purchaser or Owner)

3. Location of Installation PENNSYLVANIA POWER & LIGHT CO. ALLENTOWN, PA
(Name and Address)

4. -- (CRN) DS-A-63790 REV. E (Drawing No.) 1996 (Year Built)

5. ~~ASTM A-637~~ GR. 718 *ASME SA637 (Material Spec No.) BAC 21APR98 KAH 4-21-98 REMARKS (Tensile Strength)

6. -- Dia. ID -- Length Overall Nom. Thickness(in.) -- Inch Min. Design Thickness -- Inch

7. -- Design Pressure(PSI) -- Temperature °F

Hydrostatic Test (psig) 2370 at 70 °F
(When applicable)

8. Fabricated in accordance with Const. Spec.(Div. 2 only) -- Revision -- Date --
KAH 4-21-98 BAC 21APR98 *1974 (No.) KAH 4-21-98 BAC 21APR98 *S75

9. ASME Code, Section III, Division 1: ~~1971~~ (Edition) ~~NO ADDENDA~~ (Addenda Date) 1 (Class) -- (Code Case No.)

10. Remarks MINIMUM TENSILE STRENGTH 185,000

11. When applicable, Certificate Holders' data reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. Numerical Order		Part or Appurtenance Serial Number	National Board No. Numerical Order
(1)	N93185-62-0271	--	(11)		
(2)	N93185-62-0272	--	(12)		
(3)	N93185-62-0273	--	(13)		
(4)	N93185-62-0274	--	(14)		
(5)	N93185-62-0275	--	(15)		
(6)	N93185-62-0276	--	(16)		
(7)	N93185-62-0277	--	(17)		
(8)			(18)		
(9)			(19)		
(10)			(20)		

Manufacturer Serial No. N93185-62-0271

Q.C.-392
SHEET 2 OF 2

CERTIFICATE OF SHOP COMPLIANCE

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

*CORRECTED (Authorized Rep.) 21APR98 Date

Date 27 June 96 Signed Crosby Valve & Gage Company (NptCertificate Holder) by (Authorized Representative)

NV Certificate of Authorization No. N-1877 Expires 30 SEP 98 (Date)

CERTIFICATE OF DESIGN

Design specification certified by* C.T. NIEH
PE State CA Reg No. 15587
Design Report Certified by* D. THIBAULT
PE State MA Reg No. 33747

*Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by * Protection Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on June 27, 1996 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 warrant, 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, 1996 * ANI MA1418 4-21-98 Date

Signed (Inspector) Commissions MA-1418 (Nat'l. Bd., State, Prov. and No.)

*Factory Mutual Systems

9705821372

PP&L

RECEIPT INSPECTION REPORT

(1) RIR NO. 96-0512 (2) DATE 8/2/96

(3) ITEM NO.	6-18431-1	REV. NO.	N/A	(4) DRAWING NO./REV. NO.	DS-A-63790, RE
(5) SUPPLIER	CROSBY VALVE	SUPPLIER NO.	110		

(6) ITEM DESCRIPTION	(7) CLASS	(8) MFG. DATE/SHELF LIFE	(9) CAT. NO.	(10) QTY.	(11) QTY. ACCEPTED	(12) QTY. REJECTED
DISC, INSERT, W/ PIN	Q1	N/A	50592	7	7	0
SA637 GR. 718	ASME					
DISC P/N N93185	CL. 1					
PIN P/N 106257						
S/N: 0271 THRU 0277						

FOR INFORMATION ONLY

Revised Code Data Report 4/24/96

(13) Hold Status	Completion of Inspection ☐	Confirmatory Testing ☐	Dedicaton Testing ☐	Dedication Document ☐
CR NO(s)		RDR NO(s)		MAR NO(s)		TELECON DATE(s)	8/2/96

(14) SOURCE INSPECTION PERFORMED ☐ YES ☒ NO

(15) ATTRIBUTES	SAT	UNSAT	N/A	ATTRIBUTES (Cont'd)	SAT	UNSAT	N/A	ADDITIONAL	SAT	UNSAT	N/A
Shipping Damage	☒	☐	☐	Protection Cover & Seals	☒	☐	☐	Packaging	☒	☐	☐
Vendor Documentation	☒	☐	☐	Inert Gas Blanket	☐	☐	☒	Direct Ship	☐	☐	☒
Identification & Markings	☒	☐	☐	Physical Properties	☒	☐	☐	ASME Code ED/ADD	☐	☐	☐
Workmanship	☒	☐	☐	Dimensions	☐	☐	☒	Confirmatory Testing	☐	☐	☒
Physical Damage	☒	☐	☐	Weld End Preps	☐	☐	☒	Dedication Results	☐	☐	☒
Cleanliness	☒	☐	☐	Electrical Insulation	☐	☐	☒	Supplier Status	☒	☐	☐
Coatings & Preservatives	☒	☐	☐	Lubricants & Oils	☐	☐	☒	DDL Review	☒	☐	☐
Desiccant	☐	☐	☒								

(16) REMARKS

ISSUED TELECON FOR REVISED DOC. EGK 8/2/96 Revised Doc rec'd Telecon closed 8/9/96

(17) CALIBRATED TOOLS USED	DUE DATE	(18) INSPECTOR	DATE
N/A	N/A		8/2/96

LOCATION CODE: FLOOR (20) CLOSED BY: 8/9/96

Form NP-QA-401-2, Rev. 4 Page 1 of 1

PAGE

8 9 1 1 8 1 1 1 1 4 0

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MASS

QC-70B-5

CROSBY FACTORY ORDER NO. N8529000

CROSBY ITEM NO. 003

CUSTOMER ORDER NO. 7-07557-1

CUSTOMER ITEM NO. 52512

CERTIFICATE OF AUTHORIZATION
NO. N-1877 EXPIRES: 9/30/89

CERTIFICATE OF COMPLIANCE

The Crosby Valve & Gage Company hereby certifies that Part Nozzle, Part No. N93184, Serial No. (if applicable) N93184-38-0052 thru 0063, N93184-38-0065 thru 0068 meets the requirements of the subject customer purchase order for Material Specification, Customer Specification, Code Edition and Addenda, Class, applicable drawing; and that all required tests, and inspections, have been performed; and the item is interchangeable with the same item supplied in the original equipment.

87-1-126
PACKAGE 4 OF 14

Benea Mullaney
Crosby QA Records Specialist

November 30, 1987
Date

CHARLES E. LARSON & SONS
OPEN DIE FORGINGS

2648-68 N. KEELER AVENUE • CHICAGO, IL 60639

SOLD TO

CROSBY VALVE & GAGE CO.

WRENTHAM, MASS. 02093

52512 PR12NIA
RIR 87-1726

772 9700
TWX
910-221-1387
FAX
3.2 772-9785

CUSTOMER ORDER NO	DATE SHIPPED	HEAT NO	SPECIFICATION-GRADE
11592	11-24-87	91322	ASME SA-182 Gr.F-316 S.B.

ITEM	QUANTITY	DESCRIPTION
1	17-	FRGN93166 Nozzle forgings made, solution annealed and rough turned as per drg.no. FN-91049, Rev.A

The forgings were heated to 1950°F, 2 Hours, Water quenched.

The forgings comply with the ASME B. & P.V.Code, Sections II & III, Section III, Para.NCA-3800 and per Larson Q.C.Manual, Rev.4 dated 9/1/81 as approved by Crosby Valve.

Forgings processed in accordance with QAI-3224, Supplement 1, Rev.8, Forging procedure F-2072, Rev.1, SQR-1, Rev.3

CROSBY
FINAL DOCUMENTATION
PART NOZZLE
CROSBY S/N N93184-38-00.5 thru 00.8
HEAT NO. 91322
F.O. N85890 00 ITEM 003
CUSTOMER P.O. 7-07557-1

CROSBY
FINAL DOCUMENTATION
PART NOZZLE
CROSBY S/N N93184-38-00.5 thru 00.8
HEAT NO. 91322
F.O. N85890 00 ITEM 003
CUSTOMER P.O. 7-07557-1

CERTIFICATION REVIEWED IN ACCORDANCE WITH CROSBY QC-110 AND MEETS ALL THE REQUIREMENTS OF ASME 1971 EDITION NO ADDENDA. L. Perry 11/30/87

ACCEPTED BY CROSBY

QA. L.R. NOV 30 1987

REPORTED LADLE ANALYSIS (*LESS THAN)

C	Mn	P	S	Si	Ni	Cr	Mo	V	Cu	Co	Cb
.05	1.48	.023	.004	.50	11.95	17.25	2.06		.23	.13 (Ladle)	
.05	1.47	.020	.012	.44	11.78	17.11	2.04		.20 (Ch. Analysis)		

Ta	Al	Sn	Fe	Ti	B	Pb	W	Cb + Ta			

MECHANICAL PROPERTIES FROM:
☒ SEPARATELY FORGED COUPON ☐ EXTRA FORGING ☐ PROLONGATION ☐ MILL CAPABILITIES

TYPE TEST	TEMP°F	STRESS/ULT PSI	0.2% YIELD PSI	LIFE HRS	ELONG %	RA%	HARDNESS	CONDITION
Tensile	Room	82,850	37,250		62%	75%	156 BHN	87-1726

HARDNESS OF FORGING(S)	MILL SOURCE	ULTRASONIC TEST RESULTS
163 BHN	Slater Steel STARTING BILLET SIZE 6"RCS	UT per U-1928, Rev.2 & UTS-18, Rev.2 (See Attached UT Report).

GRAIN SIZE	JOMINY HARDENABILITY BY 1/16"																
	1	2	3	4	5	6	7	8	9	10	12	14	16	20	24	28	32

SUBSCRIBED AND SWORN TO BEFORE ME

THIS 25th. DAY OF November., 1987

MY COMMISSION EXPIRES OCTOBER 30, 1989

CHARLES E. LARSON & SONS, INC.

FORGERS OF CARBON, ALLOY & STAINLESS STEELS, ALUMINUM, TITANIUM AND HIGH TEMPERATURE NICKEL ALLOYS

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MA

Q.C.-70-5B

FACTORY ORDER NO.: NV4000515
CUSTOMER: PENNSYLVANIA POWER & LIGHT CO.
CUSTOMER ORDER NO.: 3-61382-1
ITEM NO.: 010

CERTIFICATE OF AUTHORIZATION
NO. N-1877 EXPIRES 30 SEPTEMBER 1995

CERTIFICATE OF COMPLIANCE

The Crosby Valve & Gage Company hereby certifies that Part DISC INSERT Part No. N93185, Serial No. (if applicable) SEE BELOW meets the requirements of the Customer Purchase Order, Item Description, Material Specification, Customer Specification, applicable Code Edition and Addenda, Class, applicable drawing; and that all required tests, and inspections have been performed; and the item is interchangeable with the same item supplied in the original equipment.
NO MAJOR REPAIRS WERE PERFORMED.
DWG.DS-A-63790*REVISED 6-23-94 D.A.
D.A.

ASME Section III 1971 Edition NO Addenda, Class 1

SERIAL NO.

N93185-57-0254
N93185-57-0255
N93185-57-0257* DA
N93185-58-0259*

Deborah Allsworth
Quality Assurance

24 MAY 1994
Date

Certified **TEST REPORT**

CHARLES E. LARSON & SONS
INCORPORATED
OPEN DIE FORGINGS
2848-86 N. KEELER AVENUE • CHICAGO, IL 60639-2133
PHONES AREA CODE 773-8700 FAX 312-772-87

SOLD TO

CROSBY
FINAL DOCUMENTATION
PART Disc Insert
CROSBY S/N N93185-62 0259 0255 0257
HEAT NO. 9-15533
F.O. N14000515 ITEM 010
CUSTOMER P.O. 3-61382-1

CUSTOMER ORDER NO.	DATE SHIPPED	HEAT NO.	SPECIFICATION-GRADE
PP0054895	5-9-94	9-15533	ASME SA-637 Inconel 718

ITEM	QUANTITY	DESCRIPTION
002	20-	FRCN93169 Disc Insert forgings made,solution annealed,aged and rough turned as per dwg.no. FN93168,Rev.A 6-1/16" Dia. x 3-3/16" Thick

The forgings were heated to 1800°F, 1 Hour,Air-cooled.
The forgings were re-heated to 1325°F, 8 Hours,Furnace cooled @100°F, per hour to 1150°F, held at temp.for 8 more hours,then air-cooled. (Total Time 18 Hrs.)

The forgings comply with the ASME B. & P.V.Code,Section III (July,1971) Section III, Para.NCA-3800 and per Larson Q.C.Manual,Rev.5 dated 10/23/90 as approved by Crosby Valve & Gage Co.

Forgings in accordance with QAI-3224,Rev.3 Supplement 1,Rev.12, Forging Procedure F-2079,Rev.3 and SQR-1,Rev.4

This certification affirms that the contents of the report are correct and accurate and that all test results and operations performed by Larson and subcontractors are in compliance with the requirements of the material specification.

CERTIFICATION REVIEWED IN ACCORDANCE WITH CROSBY QC-110 AND MEETS ALL THE REQUIREMENTS OF ASME 1977 EDITION Signature 1/23 ADDENDA 17-Aug-94

Q.A. L.R. MAY 1 1 1994 ACCEPT 59 CROSBY

REPORTED LADLE ANALYSIS (*LESS THAN)

C	Mn	P	S	Si	Ni	Cr	Mo	V	Cu	Co	
.031	.07	.009	.0003	.09	53.30	17.93	2.98		.04	.42	5.
.035	.07	.009	*.001	.11		18.0	2.94		.06	.44	(Ck.A

Ta	Al	Sn	Fe	Ti	B	Pb	W	Cb + Ta	BI	SE	BI
.01	.48		18.53	.95	.0031	*5ppm		5.08	*.3ppm	*3ppm	(Lad
	.45		Bal.	.97	.004			5.13			53

MECHANICAL PROPERTIES FROM: Analys.

☒ SEPARATELY FORGED COUPON ☐ EXTRA FORGING ☐ PROLONGATION ☐ MILL CAPABILITIES

TYPE TEST	TEMP°F	STRESS/ULT PSI	0.2% YIELD PSI	LIFE HRS	% ELONG IN 2"	RA%	HARDNESS	CONDITION
Tensile	Room	213,100	174,750		21%	40%	429 BHN	
Stress R.	1200°	100,000		217.1	24.0%	58.4%		

HARDNESS OF FORGING(S)	MILL SOURCE	ULTRASONIC TEST RESULTS
415,401,415,401,415 BHN	Special Metals STARTING BILLET SIZE 5"Dia.	UT per U-1928,Rev.2 & UTS-24,Rev.3 Satisfactory (See attached UT report)

GRAIN SIZE	JOMINY HARDENABILITY BY 1/16"															
	1	2	3	4	5	6	7	8	9	10	12	14	16	20	24	28

SUBSCRIBED AND SWORN TO BEFORE ME THIS 9th. DAY OF May.,1994

NOTARY PUBLIC

OFFICIAL SEAL
KEITH ZAWRADKY
NOTARY PUBLIC, STATE OF ILLINOIS

CHARLES E. LARSON & SONS, INC.

FORGERS OF CARBON, ALLOY & STAINLESS STEELS, ALUMINUM, TITANIUM AND HIGH TEMPERATURE NICKEL ALLOYS

CROSBY

CROSBY VALVE & GAGE COMPANY
WRENTHAM, MA

Q.C.-392
SHEET 1 OF 2

FORM N-2, N OR NPT CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES
As Required by the Provisions of the ASME Code, Section III, Division 1 - Not to Exceed One Day's Production

1. Manufactured and certified by Crosby Valve & Gage Company 43 Kendrick St. Wrentham, MA 02093
(Name and Address of N Certificate Holder)

2. Manufactured for PENNSYLVANIA POWER & LIGHT ALLENTOWN,PA 18101
(Name and Address of Purchaser or Owner)

3. Location of Installation SUSQUEHANNA SES STOREROOM BERWICK,PA 18603
(Name and Address)

4. --- (CRN) DS-A-63790 REV.E (Drawing No.) 1996 (Year Built)

5. SEE REMARKS (Material Spec No.) REMARKS (Tensile Strength)

6. -- (Dia. ID) -- (Length Overall) Nom. Thickness(in.) -- Inch Min. Design Thickness -- Inch

7. -- (Design Pressure(PSI)) -- (Temperature) °F

Hydrostatic Test (psig) --- at --- °F
(When applicable)

8. Fabricated in accordance with Const. Spec.(Div. 2 only) — (No.) Revision — Date —

9. ASME Code, Section III, Division 1: 1971 (Edition) NO (Addenda Date) A 1 (Class) (Code Case No.)

10. Remarks SPINDLE POINT MATERIAL:ASME SA564 GR.630 MIN.TENSILE:140,000
SPINDLE BALL MATERIAL:ASTM A276 TYPE 440C MIN.TENSILE:N/A

11. When applicable, Certificate Holders' data reports are attached for each item of this report:

	Part or Appurtenance Serial Number	National Board No. Numerical Order		Part or Appurtenance Serial Number	National Board No. Numerical Order
(1)	K82137-40-0022	--	(11)		
(2)			(12)		
(3)			(13)		
(4)			(14)		
(5)			(15)		
(6)			(16)		
(7)			(17)		
(8)			(18)		
(9)			(19)		
(10)			(20)		

Manufacturer Serial No. K82137-40-0022

CERTIFICATE OF SHOP COMPLIANCE

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

Date 18 Apr 96 Signed Crosby Valve & Gage Company by Lawrence Hines
(NptCertificate Holder) (Authorized Representative)

NV Certificate of Authorization No. N-1877 Expires 30 SEP 98
(Date)

CERTIFICATE OF DESIGN

Design specification certified by* C.T.NIEH
PE State CA Reg No. 15587
Design Report Certified by* D.THIBAULT
PE State MA Reg No. 33747

*Signature not required - list name only.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Massachusetts and employed by * Protection Mutual Insurance Co. of Norwood, Massachusetts have inspected these items described in this Data Report on April 18, 1996 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 warrant, 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 4-18, 1996.
Signed Kenneth B. Hartman Commissions MA-1418
(Inspector) (Nat'l. Bd., State, Prov. and No.)
*Factory Mutual Systems

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 1

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

Unit: ONE

WO# 240247; 00164004 & 00164005 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RECIRC.-FLOW CONTROL & JET PUMP INST. 164A, 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 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	154	416	XV143F012A	1976	REPLACED	YES
2) VALVE	MAROTTA SCIENTIFIC CONTROLS	295	551	XV143F012A	1977	REPLACEMENT	YES
3) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDCA120-4	1982	REPLACED	YES
4) SMALL PIPE SUB- ASSEMBLY	PP&L	N/A	N/A	SPDCA120-4	2000	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(S) ATTACHED. ORIGINAL & REPLACEMENT MAROTTA VALVE
Applicable Manufacturer's Data Reports to be attached

CODE OF CONSTRUCTION, ASME III 1974 EDITION WINTER 1974 ADDENDA.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29 ~~19~~ 2000

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 3-28-2000 to 4-20-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date JUNE 29 ~~19~~ 2000

CORRECTED COPY

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

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Marotta Scientific Controls, Boonton Avenue, Boonton, N.J. 07005 (Name & Address of Manufacturer) Order No. 02017

2. Manufactured for Bechtel Power Corporation, San Francisco, CA 94119 (Name and Address) Order No. ~~8856-J-92-AC~~

3. Owner Pennsylvania Power and Light Company

4. Location of Plant Susquehanna Steam Electric Station, ~~Allentown~~ * Salem Township, Luzerne County PA. Unit#1&2

5. Pump or Valve Identification Excess Flow Check Valve, Model FVL 16 FD

Water Service, equipped with Position Switches and By-Pass Solenoid.
(Brief description of service for which equipment was designed)

(a) Drawing No. 281314-9001 Prepared by Marotta Scientific Controls, Inc.

(b) National Board No. 538 thru 561

6. Design Conditions ~~1050~~ * 1510 (Pressure) psi 600 (Temperature) °F

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition *1974, Addenda Date *W74, Case No. N/A

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
* Corrected Line 6; Pressure was incorrect			
Design Conditions: Added 1510; Deleted 1050			
Additions Verified 12/1/81 MSCI QA	N/A	Additions Verified 12/1/81 ANI	NB2493 PA2237
* Corrected Line 7; At Jurisdictional Authority Request			
Edition: Added 1974; Deleted W74			
Addenda Date: Added W74; Deleted N/A			
(b) Forgings NOTE: Inspection Agency had been changed from Commercial Union to Lumbermens Mutual Casualty.		Additions Verified 12/18/82	NB7850
	N/A		
* Corrected Line 4: At Jurisdictional Authority Request			
Location; Added: Salem Township, Luzerne County, Pa.			
Deleted: Allentown, Pa.			
Additions Verified 8/4/81 MSCI QA		Additions Verified 4-16-81	IND5874 PA-WC 0176

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting	–		
	N/A		
(d) Other Parts			
188370-9001/A31867	SA182/F316	Cartech	Cap
188371-9001/A31859B	SA182/F316	Cartech	Body
187741-9001/A31867	SA182/F316	Cartech	Poppet

8. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file at Marotta Scientific Controls, Inc.

Stress analysis report on file at Marotta Scientific Controls, Inc.

Design specifications certified by Lawrence S. Loomer (1) Prof. Eng. State PA Reg. No. 19875E

Stress analysis report certified by William Golden (1) Prof. Eng. State N.J. Reg. No. 20899

(1) Signature not required. List name only.

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

Date Feb 16 1977 Signed Marotta (Manufacturer) By D. Denise, Mgr., QA

Certificate of Authorization No. 1369 expires 27 April 79.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of New Jersey and employed by Commercial Union Ins. Co. of Boston, Massachusetts have inspected the equipment described in this Data Report on FEB 16 1977 19____, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date FEB 16 1977 19____

(Inspector) Commissions NB 4683 (National Board, State, Province and No.)

1030 4000

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

1. Owner: PP&L, Inc. (Name) — Date: 06/27/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 Of 4

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — See Attached List (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RECIRC WATER LOOP & JET PUMPS 164B, 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 LIST PAGE 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) SEAL	BYRON JACKSON	841-W-4628	N/A	1P405B	1985	REPAIRED	YES
2) SEAL	BYRON JACKSON	793-W-5468	N/A	1P405B	1981	REPLACED	YES
3) SEAL	BYRON JACKSON	841-W-4628	N/A	1P405B	1985	REPLACEMENT	YES
4) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPDCA144-H2121	2000	REPLACEMENT	NO
5) VALVE	BORG WARNER	19465	N/A	143F027A	1976	REPLACED	YES
6) VALVE	YARWAY	C0728	N/A	143F027A	1990	REPLACEMENT	YES
7) VALVE	BORG WARNER	19482	N/A	143F028A	1976	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** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date July 6, 2000

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 7-13-98 to 6-6-00, 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.

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

Date July 10, 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/27/00

Sheet 2 of 4

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RECIRC WATER LOOP & JET PUMPS 164B, 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 LIST PAGE 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) VALVE	YARWAY	C0795	N/A	143F028A	1990	REPLACEMENT	YES
9) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDCA150-2	1982	REPLACED	YES
10) SMALL PIPE SUB-ASSEMBLY	PP&L	N/A	N/A	SPDCA150-2	2000	REPLACEMENT	NO
11) SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCA150-H2008	1982	REPLACED	NO
12) SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPDCA150-H2008	2000	REPLACEMENT	NO
13) STEM/DISC ASSEMBLY	YARWAY	C3312	N/A	143F051B	1995	REPLACED	YES
14) STEM/DISC ASSEMBLY	YARWAY	C3315 (REMOVED FROM VALVE)	N/A	143F051B	1995	REPLACEMENT	YES
15) BACKSEAT BUSHING	YARWAY	C3312	N/A	143F051B	1995	REPLACED	YES
16) BACKSEAT BUSHING	YARWAY	C3315 (REMOVED FROM VALVE)	N/A	143F051B	1995	REPLACEMENT	YES
17) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDCA119-2	1982	REPAIRED	YES
18) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDCA121-4	1982	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: PP&L, Inc. (Name) — Date: 06/27/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 4

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — See Attached List (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RECIRC WATER LOOP & JET PUMPS 164B, 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 LIST PAGE 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) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDCA108-5	1982	REPAIRED	YES
20) SMALL PIPE SUB-ASSEMBLY	BECHTEL	N/A	N/A	SPDCA122-4	1982	REPAIRED	YES
21) STEM/PLUG ASSEMBLY	MASONEILAN	N-00186-14-1	N/A	HV-143F019	1978	REPLACED	YES
22) STEM/PLUG ASSEMBLY	MASONEILAN	HT # 1810-1-1039-23	N/A	HV-143F019	1998	REPLACEMENT	YES
23) STEM/PLUG ASSEMBLY	MASONEILAN	HT # 1810-1-1039-23	N/A	HV-143F019	1998	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: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
   Date: 06/27/00
   Sheet 4 of 4
2. Plant: Susquehanna Steam Electric Station (Name)
   PO Box 467, Berwick, PA 18603 (Address)
   Unit: ONE
   SEE ATTACHED LIST (Repair Organization P.O. No., Job No., etc.)
3. Work Performed by: PP&L Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)
   Type Code Symbol Stamp: None
   Authorization No.: N/A
   Expiration Date: N/A
4. Indentification of System: RECIRC WATER LOOP & JET PUMPS 164B, 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 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	SERVICE ORDER 116772-C	N/A	VENDOR MODIFICATION OF PUMP SEAL PER DCP 97-3018 MACHINING OF SEAL FLANGE	SEC III 80 ED WIN 80 ADD	SEE WORK AUTH. S82752
2-3	S82752	98-164-008	1P405B, REPLACED PUMP SEAL	SEAL 793-W-5468 SEC III 71 ED SUM 71 ADD; SEAL 841-W-4628 SEC III 80 ED WIN 80 ADD	VT-2 PER MT-064-003 TEMP 528°F/ PRESS 1036 PSIG
4	188430	99-164-001	SPDCA144-H2121, INSTALLED SHIM	SEC III 71 ED W72 ADD	N/A
5-12	104153	00-164-001	143F027A, 143F028A REPLACED VALVES, ASSOCIATED PIPE & SMALL PIPE HANGER CLIP	ORIG. VALVE SEC III '71 ED W'72 ADD REPLACEMENT VALVES SEC III '86 ED NO ADD	NON-VT-2 PER MI-PS-008
13-16	240297	00-164-002	143F051B, REPLACED STEM/DISC ASSEMBLY & BACKSEAT BUSHING	SEC III 71 ED W72 ADD	NON VT-2 PER MI-PS-008
17	188326	00-164-006	SPDCA119-2, REPAIRED SMALL PIPE WELD WITH 2X1 FILLET	SEC III 71 ED W72 ADD	NON VT-2 PER MI-PS-008
18	188376	00-164-007	SPDCA121-4, REPAIRED SMALL PIPE WELD WITH 2X1 FILLET	SEC III 71 ED W72 ADD	NON VT-2 PER MI-PS-008
19	188387	00-164-008	SPDCA108-5, REPAIRED SMALL PIPE WELD WITH 2X1 FILLET	SEC III 71 ED W72 ADD	NON VT-2 PER MI-PS-008
20	188350	00-164-009	SPDCA122-4, REPAIRED SMALL PIPE WELD WITH 2X1 FILLET	SEC III 71 ED W72 ADD	NON VT-2 PER MI-PS-008
21-23	216889	00-164-010	HV143F019, REPLACED VALVE STEM/PLUG ASSM & REPAIRED REPLACEMENT ASSEM BY MACHINING DUE TO DAMAGE	ORIG VALVE & REPLACEMENT STEM PLUG SEC III '74 ED WIN 75 ADD	NON VT-2 PER MI-PS-008

* Revised June 26, 1998

MANUFACTURER'S REPORT FOR REPAIRS

1. MANUFACTURED FOR: PENNSYLVANIA POWER AND LIGHT, INC.,
NAME

FIVE (5) MILES NE OF BERWICK ON US ROUTE 11, BERWICK, PA 18603-0467
ADDRESS

2. PLANT SUSQUEHANNA STEAM ELECTRIC STATION,
NAME

FIVE (5) MILES NE OF BERWICK ON US ROUTE 11, BERWICK, PA 18603-0467
ADDRESS

P.O. NO., JOB NO. AND R/S NO. 116772-0; 98EP2009.21; R/S 334367

3. WORK PERFORMED BY: BW/IP INTERNATIONAL, INC., PUMP DIVISION, L.A.O.,
NAME

2300 E. VERNON AVENUE, VERNON, CA 90058
ADDRESS

TYPE CODE SYMBOL STAMP N

AUTHORIZATION NO. N-1130 EXPIRATION DATE JUNE 10, 1999

4. IDENTIFICATION OF REPAIRED ITEM DRAWING 407356, REV. V

5. APPLICABLE CONSTRUCTION CODE III EDITION ~~1971~~ * 1980 ADD ~~S'71~~ W'80 CL I

6. IDENTIFICATION OF COMPONENTS REPAIRED S/N 841-W-4628; R/S 185268

NAME OF COMPONENT SEAL FLANGE ASSEMBLY

NAME OF MANUFACTURER BW/IP INTERNATIONAL, PUMP DIVISION

MANUFACTURER SERIAL NO. 841-W-4628 _____
NATIONAL BOARD NO.

OTHER IDENTIFICATION R/S 115267 YEAR BUILT 1985

REPAIRED YES ASME CODE STAMPED YES OR NO YES

7. DESCRIPTION OF WORK MODIFIED SEAL FLANGE ASSY TO IS-1061, REV. A BY MACHINING TO DRAWING L108440, REV. A & L108339, REV. 0.

8. TESTS CONDUCTED: HYDROSTATIC — PRESSURE — TEMP. —

9. REMARKS HYDROTEST NOT CONDUCTED. NO MAJOR REPAIRS WERE PERFORMED.

BW/IP International, Inc.
Pump Division

Byron Jackson/ United Pumps
Wilson-Snyder Centrifugal Pumps

P.O. Box 2017 GMF
Los Angeles California 90051
Telephone 213 587 6171
Fax 213 589 2060

2300 E. VERNON AVE., VERNON, CA 90058

*Revised Cert June 26, 1998

CERTIFICATE OF CONFORMANCE/COMPLIANCE

DATE: JUNE 11, 1998

CUSTOMER: PENNSYLVANIA POWER & LIGHT

CUSTOMER ORDER NO: 116772-C, Amendment *15 QUALITY BJ 4

BW/IP JOB NO: 98EP2009.21

ORIGINAL SERIAL NO: 711-S-0801/02 & 841-W-4628

THIS IS TO CERTIFY THAT ALL PARTS SUPPLIED ON THIS ORDER WERE MANUFACTURED, TESTED AND INSPECTED TO THE SPECIFICATIONS AND/OR DRAWINGS SPECIFIED IN YOUR PURCHASE ORDER AND MEET OR EXCEED QUALITY OF PARTS ORIGINALLY FURNISHED IN DESIGN, MATERIAL AND WORKMANSHIP. PARTS ARE EQUIVALENT IN FORM, FIT AND FUNCTION AND ARE COMPLETELY INTERCHANGEABLE WITH THE EXISTING/ORIGINAL EQUIPMENT FURNISHED.

ALL THE REQUIREMENTS OF YOUR PURCHASE ORDER HAVE BEEN COMPLIED WITH IN THEIR ENTIRETY UNLESS OTHERWISE NOTED HEREIN.

ITEM	REF. NO.	QTY.	DESCRIPTION	DWG/PART NO.(COPICS NO.)
1	---	1	MECHANICAL SEAL REWORK	L108440/L108439
			PER IT3290/LC02401, REV. 0 R/S 334367	

FOR SEAL FLANGE:

QUALITY BJ 4 JUN 26 1998

REWORK IS CERTIFIED TO CONFORM TO ASME SECTION III, ~~1971, 671,~~ *1980, W'80 CL. 1 REQUIREMENTS. REWORK WAS PERFORMED IN ACCORDANCE WITH PP&L PURCHASE ORDER AND IS-1061, REV. A REQUIREMENTS AND NO MAJOR REPAIR WORK WAS PERFORMED. ORIGINAL SEAL FLANGE S/N 841-W-4628, R/S 185267, HT 42020-5, MAT'L = ASME SA182, GR. F316. SEAL FLANGE ASSY R/S 185268 (ORIG.). PARTS WERE PRODUCED UNDER OUR NUCLEAR Q.A. PROGRAM, QUALITY MANUAL 2ND ED. REV. 6 DATED 04/17/1996.

K.J. PROBST, SUPR. QUALITY AUDITS

AI/ANI CODE CJ DATE 6/27/98
DOCUMENTATION REVIEW ONLY

SHOP ORDER 72341 REGISTER 89670

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

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

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 (edition) --- (addenda date) 1 (class) --- (Code Case no.)

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

7. Material: Body SA-182 Gr. F316L Bonnet ~~SA-182 Gr. F6a Cl. 2~~ SA-564 Gr. 630 Disk AMS5385E Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
C0561	---	BA	2906	NCR
C0563		All valves listed on this report have the same		
C0573		heat code for each piece listed.		
C0581				
C0587				
C0604				
C0646				
C0671				
C0680				
C0685				
C0715				
C0716				
C0723				
C0724				
C0734				
C0746				
C0763				
C0764				
C0781				
C0795				
C0808				
C0809				
C0811				
C0819				
C0820				

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (back)

8. Remarks Nuclear Service Valves, Qty. 25

Bonnet (column d) is replaced by backseat bushing in this valve design.

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

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 (N Certificate Holder) Signed C. L. Root (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 [illegible] (Authorized Inspector) Commissions *Factory Mutual System Pa. 2006 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

SHOP ORDER 72341 REGISTER 89670

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

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

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 (edition) --- (addenda date) 1 (class) --- (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1 (in.) Outlet size 1 (in.)
7. Material: Body Gr. F316L SA-182 ~~SA-182~~ Bonnet ~~Gr. F6a Cl. 2~~ SA-564 Gr. 630 Disk AMS5385E Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
C0577	---	BA	2906	NC
C0579		All valves listed on this report have the same		
C0597		heat code for each piece listed.		
C0599				
C0600				
C0609				
C0625				
C0637				
C0638				
C0644				
C0651				
C0654				
C0660				
C0691				
C0697				
C0713				
C0722				
C0726				
C0728				
C0730				
C0742				
C0748				
C0749				
C0752				
C0753				

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

90-0905
40-56

FORM NPV-1 (back)

8. Remarks Nuclear Service Valves, Qty. 25

Bonnet (column d) is replaced by backseat bushing in this valve design.

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

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 (N Certificate Holder) Signed C D Root (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 [illegible] (Authorized Inspector) Commissions *Factory Mutual System PA 2006 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

SHOP ORDER 63646 REGISTER 70163

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

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

1. Manufactured and certified by Yarway Corporation, A Subsidiary of Keystone International Inc. 480 Norristown Rd., Blue Bell, PA 19422 (name and address of N Certificate Holder)
2. Manufactured for B & W Nuclear Technologies, Lynchburg, VA 24506 (name and address of Purchaser or Owner)
3. Location of installation stock (name and address)
4. Model No., Series No., or Type 5617B Drawing 111102 Rev. A CRN - - -
5. ASME Code, Section III, Division 1: 1986 (edition) None (addenda date) 1 (class) - - - - (Code Case no.)
6. Pump or valve Valve Nominal inlet size 2" (in.) Outlet size 2" (in.)
7. Material: Body SA182 Gr. F316 Bonnet SA564 Gr. 630 Disk AMS5385E Bolting N/A

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
C3312	- - - - -	F6	6577	91-11-1B
C3313	- - - - -	F6	6577	91-11-1B
C3314	- - - - -	F6	6577	91-11-1B
C3315	- - - - -	F6	6577	91-11-1B

INSTALLED VALVE

* Supplemental information in 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.

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

FTI OP SUP CBR

FORM NPV-1 (back)

Remarks Valves are bonnetless design. Backseat Bushing listed in lieu of bonnet.

9. Design conditions - - - (pressure) psi - - - (temperature) °F or valve pressure class 1700 (1)

10. Cold working pressure 4080 psi at 100°F

11. Hydrostatic test 6125 psi. Disk differential test pressure 4500 psi

CERTIFICATION OF DESIGN

Design Specification certified by George J. Paptzun P.E. State PA Reg. no. PE-034809-E
Design Report certified by Murray W. Randall P.E. State MA Reg. no. 27395

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. N2449 Expires 12/1/95

11/16/95 Name Yarway Corporation (N Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Ins. Co. of Norwood, MA* have inspected the pump, or valve, described in this Data Report on November 16, 19 95, 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.

*Factory Mutual Engineering Association

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 11-16-95 Signed William R. Regenti (Authorized Inspector) Commissions NB7980 NIBSIS PA2204 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

FTI
OP SUP
CBR

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

N396186-1

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

Not to Exceed One Day's Production

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 (drawing no.) | Haynes Alloy 6B (mat'l. spec. no.) | 144,467 PSI (tensile strength) | N/A (CRN) | 1998 (year built)

5. ASME Code, Section III, Division 1: 1974 Edition (edition) | Winter 1975 (addenda date) | 1 (class) | N/A (Code Case no.)

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

7. Remarks: Masoneilan Part Nº 013431-135-1L2 - 3/4" & 1"

Spare Part for S/N N--186-5,6,7,8,9,10,12,14,15

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~~ Heat Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board No. in Numerical Order
(1) 1810-1-1039-23		(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 1650 psi. Temp. 565 °F. Hydro. test pressure N/A (when applicable) at temp. °F

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Certificate Holder's Serial Nos. N396186-1 through -

CERTIFICATION OF DESIGN

Design specifications certified by Sidney A. Copland (when applicable) P.E. State PA Reg. no. 19877-E

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this ~~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 2-23-98 Name Masoneilan-Dresser Industries (NPT 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 MA and employed by H.S.B.I. & I. Co. of Hartford, CT have inspected these items described in this Data Report on Feb 27, 1998, 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 2/27/98 Signed [signature] (Authorized Inspector) Commissions MA-1337 (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/2000

Sheet 1 Of 1

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

Unit: ONE

W/O 247180, 00-169-001 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RADWASTE (LIQUID) SYSTEM 169A, 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 (* 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 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

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 29 19 2000

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 4-12-2000 to 4-18-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date JUNE 29 19 2000

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

1. Owner: PP&L, Inc. (Name) — Date: 06/26/2000

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 Of 1

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — W/O 251632 MOD 251693 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: H2 & O2 ANALZER 173C, CLASS II

5. (a) Applicable Construction Code: III 19 74 Edition, thru W'74 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	TARGET ROCK	75KK-201-45	N/A	SV-12361	1977	REPAIRED	YES
2) VALVE DISC	TARGET ROCK	75KK-201-45	N/A	SV-12361	1977	REPLACED	YES
3) VALVE DISC	TARGET ROCK	980	N/A	SV-12361	1991	REPLACEMENT	YES

7. Description of Work: REVERSED FLOW, REPLACED DISC ASSEMBLY AND TACK WELDED VALVE

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ (VT-2 PER SE-000-017)
Other ☐ Pressure 45.9 psi Test Temp. 76.2 °F

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

FORM NIS-2 (Back)

9. Remarks _____

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed _____ Date June 29, 2000

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 4-23-2000 to 4-28-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

_____ Commissions NB 2525 IBNA PA 2159

Inspector's Signature — National Board, State, Province, and Endorsements

Date JUNE 29, 2000

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

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

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

Not To Exceed One Day's Production

Pg. 1 of 1

1. Manufactured and certified by Target Rock Corp., 1966E Broadhollow Rd, E. Farmingdale, NY 11735 (name and address of NPT Certificate Holder)

2. Manufactured for Pennsylvania Power & Light Co.: Berwick, PA 18603 (name and address of purchaser)

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

4. Type 200391-1 (drawing no.) SA-479 316 (mat'l. spec. no.) 75,000 psi (tensile strength) N/A (CRN) 1991 (year built)

5. ASME Code, Section III: 1974 (edition) Winter 1974 (addenda date) 2 (class) N/A (Code Case no.)

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

7. Remarks: Spare Parts for a completed valve assembly, Model Nos. 75KK-201, -202, -205, and -207. P/N 200391-1

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	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 906	N/A	(26)	
(2) 913	N/A	(27)	
(3) 919	N/A	(28)	
(4) 920	N/A	(29)	
(5) 957	N/A	(30)	
(6) 971	N/A	(31)	
(7) 972	N/A	(32)	
(8) 980	N/A	(33)	
(9) 982	N/A	(34)	
(10) 986	N/A	(35)	
(11) 1008	N/A	(36)	
(12) 1012	N/A	(37)	
(13) N/A	N/A	(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 N/A psi. Temp. N/A °F. Hydro. test pressure 160 psig (when applicable) at temp. °F AMB

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

FORM N-2 (back)

Mfr. Serial No. N/A

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

NPT Certificate of Authorization No. 1948 Expires 12-12-92

Date 3/26/91 Name Target Rock Corporation (NPT Certificate Holder) Signed (authorized representative) for E. Bajada, Q.A. Manager

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Commercial Union Insurance Company of Boston, Mass. have inspected these items described in this Data Report on 3/26/91, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

3/26/91 Signed William A. Roland (Authorized Inspector) Commissions N.Y. STATE COMMISSION NO. 2288 ALSO COMMISSIONED IN PENN., OHIO & CONN. (Nat'l. Bd. (Inct. 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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 1 Of 3

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: MAIN STEAM SYSTEM 183A, CLASS I

5. (a) Applicable Construction Code III* 19 71 Edition, thru S'71 Addenda, 1535-2 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	ATWOOD & MORRILL	5-221	N/A	HV-141F028A	1974	REPAIRED	YES
2) VALVE STUD	ATWOOD & MORRILL	5-221	N/A	HV-141F028A	1974	REPLACED	YES
3) VALVE STUD	PP&L	N/A	N/A	HV-141F028A	2000	REPLACEMENT	NO
4) VALVE STEM	ATWOOD & MORRILL	5-221	N/A	HV-141F028A	1974	REPLACED	YES
5) VALVE STEM	ALLIED	HT # 51161	N/A	HV-141F028A	1999	REPLACEMENT	NO
6) VALVE	ATWOOD & MORRILL	7-221	N/A	HV-141F028C	1974	REPAIRED	YES
7) VALVE STEM	ATWOOD & MORRILL	7-221 VALVE	N/A	HV-141F028C	1974	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 Replacement Stem Codes of Construction: Allied Year 1999, 1971 Edition Winter 1972 Addenda

Applicable Manufacturer's Data Reports to be attached

Attwood & Morrill Year 1991, 1971 Edition Summer 1972 Addenda; Year 1999, 1986 Edtion 1987 Addenda

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 6, 2000

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 7-4-99 to 4-18-00, 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.

[signature] Inspector's Signature

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

Date July 10, 2000

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 2 of 3

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM SYSTEM 183A, CLASS I

5. (a) Applicable Construction Code III* 19 71 Edition, thru S'71 Addenda, 1535-2 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* See Remark 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) VALVE STEM	ATWOOD & MORRILL	HT 1G8801 S/N 1	N/A	HV-141F028C	1991	REPLACEMENT	NO
9) VALVE STEM	ATWOOD & MORRILL	8-221	N/A	HV-141F028D	1974	REPLACED	YES
10) VALVE STEM	ATWOOD & MORRILL	HT # 51161 S/N 4	N/A	HV-141F028D	1999	REPLACEMENT	NO
11) VALVE STEM	ATWOOD & MORRILL	5-221	N/A	HV-141F028A	1974	REPLACEMENT	YES
12) VALVE STEM	ATWOOD & MORRILL	HT # 51161 S/N 3	N/A	HV-141F028A	1999	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/28/00

Sheet 3 Of 3

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM SYSTEM 183A, CLASS I

5. (a) Applicable Construction Code: ASME Sec III * 19 71 Edition, Thru S'71 Addenda, 1535-2 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 AUTH./ WORK ORDER	CODE PROGRAM FORM	DESCRIPTION OF WORK	DESCRIPTION OF TESTS
1-5	187861	99-183-002 & 99-183-005	HV-141F028A, REMOVED BODY TO BONNET SEAL WELD. REPLACED STUD WITH DUAL-DIA STUD BY INCREASING HOLE SIZE. REPLACED VALVE STEM.	VT-1 BOLTING & THD HOLE IN BODY VT-2 PER TP-000-001 TEMP 519°/PRESS 990 PSIG
6-8	187338	99-183-004	HV-141F028C, INCREASED SIZE OF POPPET LIFTING HOLE BY DRILLING AND REPLACED VALVE STEM	VT-2 PER TP-000-001 TEMP 519°/PRESS 990 PSIG
9-10	196009	00-183-001	HV-141F028D, REPLACED STEM	VT-2 PER SE-100-002 TEMP 490°/PRESS 955 PSIG
11-12	243771	00-183-006	HV-141F028A, REPLACED STEM	, VT-2 PER SE-100-002 TEMP 490°/PRESS 955 PSIG

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 Of 10

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

Unit: ONE

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

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: MAIN STEAM SYSTEM 183A, CLASS II

5. (a) Applicable Construction Code III* 19 71 Edition, thru W'72 Addenda, * Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 (* SEE SECTION 9 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) STEM/DISC ASSEMBLY	YARWAY	5439	N/A	1RV-PP-10101B	1976	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	B533 (REMOVED FROM VALVE)	N/A	1RV-PP-10101B	1979	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	5439	N/A	1RV-PP-10101B	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-PP-10101B	1996	REPLACEMENT	NO
5) VALVE BODY	YARWAY	A7545	N/A	SP-DBB-105-3-33	1979	REPLACED	YES
6) VALVE BODY	YARWAY	A0798	N/A	SP-DBB-105-3-33	1977	REPLACEMENT	YES
7) STEM/DISC ASSEMBLY	YARWAY	A7545	N/A	SP-DBB-105-3-33	1979	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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
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Date: 06/26/00

Sheet 2 of 10

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 SECTION 9 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) STEM/DISC ASSEMBLY	YARWAY	91-11-1G-D12	N/A	SP-DBB-105-3-33	1996	REPLACEMENT	YES
9) BACKSEAT BUSHING	YARWAY	A7545	N/A	SP-DBB-105-3-33	1979	REPLACED	YES
10) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-105-3-33	1996	REPLACEMENT	NO
11) SMALL PIPE FITTING	GE	N/A	N/A	HV10109	1976	REPLACED	YES
12) SMALL PIPE FITTING	PARKER HAN	1ADA	N/A	HV10109 *	1989	REPLACEMENT	NO
13) STEM/DISC ASSEMBLY	YARWAY	6571	N/A	2RV-LSL-10112B	1976	REPLACED	YES
14) STEM/DISC ASSEMBLY	YARWAY	AV94-B12	N/A	2RV-LSL-10112B	1998	REPLACEMENT	YES
15) BACKSEAT BUSHING	YARWAY	6571	N/A	2RV-LSL-10112B	1976	REPLACED	YES
16) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-LSL-10112B	1992	REPLACEMENT	NO
17) STEM/DISC ASSEMBLY	YARWAY	B8124	N/A	3RV-LSH-10112C	1983	REPLACED	YES
18) STEM/DISC ASSEMBLY	YARWAY	AV94-B17	N/A	3RV-LSH-10112C	1998	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 3 of 10

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 SECTION 9 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)
19) BACKSEAT BUSHING	YARWAY	B8124	N/A	3RV-LSH-10112C	1983	REPLACED	YES
20) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	3RV-LSH-10112C	1992	REPLACEMENT	NO
21) STEM/DISC ASSEMBLY	YARWAY	6125	N/A	SP-DBB-103-4-51	1976	REPLACED	YES
22) STEM/DISC ASSEMBLY	YARWAY	AV94-B13	N/A	SP-DBB-103-4-51	1998	REPLACEMENT	YES
23) BACKSEAT BUSHING	YARWAY	6125	N/A	SP-DBB-103-4-51	1976	REPLACED	YES
24) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-103-4-51	1998	REPLACEMENT	NO
25) STEM/DISC ASSEMBLY	YARWAY	6138	N/A	1RV-LSL-10112D	1976	REPLACED	YES
26) STEM/DISC ASSEMBLY	YARWAY	TEZG-A6	N/A	1RV-LSL-10112D	1999	REPLACEMENT	YES
27) BACKSEAT BUSHING	YARWAY	6138	N/A	1RV-LSL-10112D	1976	REPLACED	YES
28) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-LSL-10112D	1999	REPLACEMENT	NO
29) STEM/DISC ASSEMBLY	YARWAY	6231	N/A	SP-DBB-102-4-62	1976	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 4 of 10

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 SECTION 9 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)
30) STEM/DISC ASSEMBLY	YARWAY	TEZG-A11	N/A	SP-DBB-102-4-62	1999	REPLACEMENT	YES
31) BACKSEAT BUSHING	YARWAY	6231	N/A	SP-DBB-102-4-62	1976	REPLACED	YES
32) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-102-4-62	2000	REPLACEMENT	NO
33) STEM/DISC ASSEMBLY	YARWAY	5937	N/A	SP-DBB-103-5-15	1976	REPLACED	YES
34) STEM/DISC ASSEMBLY	YARWAY	TEZG-A13	N/A	SP-DBB-103-5-15	1999	REPLACEMENT	YES
35) BACKSEAT BUSHING	YARWAY	5937	N/A	SP-DBB-103-5-15	1976	REPLACED	YES
36) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-103-5-15	1984	REPLACEMENT	NO
37) STEM/DISC ASSEMBLY	YARWAY	6414	N/A	SP-DBB-102-4-57	1976	REPLACED	YES
38) STEM/DISC ASSEMBLY	YARWAY	TEZG-A28	N/A	SP-DBB-102-4-57	1999	REPLACEMENT	YES
39) BACKSEAT BUSHING	YARWAY	6414	N/A	SP-DBB-102-4-57	1976	REPLACED	YES
40) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-102-4-57	1984	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 5 of 10

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 SECTION 9 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)
41) STEM/DISC ASSEMBLY	YARWAY	6131	N/A	SP-DBB-103-4-53	1976	REPLACED	YES
42) STEM/DISC ASSEMBLY	YARWAY	TEZG-A27	N/A	SP-DBB-103-4-53	1999	REPLACEMENT	YES
43) BACKSEAT BUSHING	YARWAY	6131	N/A	SP-DBB-103-4-53	1976	REPLACED	YES
44) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-103-4-53	1984	REPLACEMENT	NO
45) STEM/DISC ASSEMBLY	YARWAY	6391	N/A	SP-DBB-104-4-54	1976	REPLACED	YES
46) STEM/DISC ASSEMBLY	YARWAY	TEZG-A19	N/A	SP-DBB-104-4-54	1999	REPLACEMENT	YES
47) BACKSEAT BUSHING	YARWAY	6391	N/A	SP-DBB-104-4-54	1976	REPLACED	YES
48) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-104-4-54	1984	REPLACEMENT	NO
49) STEM/DISC ASSEMBLY	YARWAY	6195	N/A	3RV-LSH/LSHH/LSL-10112A	1976	REPLACED	YES
50) STEM/DISC ASSEMBLY	YARWAY	TEZG-A17	N/A	3RV-LSH/LSHH/LSL-10112A	1999	REPLACEMENT	YES
51) BACKSEAT BUSHING	YARWAY	6195	N/A	3RV-LSH/LSHH/LSL-10112A	1976	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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 6 of 10

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

Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 SECTION 9 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)
52) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	3RV-LSH/LSHH/LSL-10112A	1993	REPLACEMENT	NO
53) STEM/DISC ASSEMBLY	YARWAY	B8196	N/A	141010A	1983	REPLACED	YES
54) STEM/DISC ASSEMBLY	YARWAY	TEZG-A31	N/A	141010A	1999	REPLACEMENT	YES
55) BACKSEAT BUSHING	YARWAY	B8196	N/A	141010A	1983	REPLACED	YES
56) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	141010A	1984	REPLACEMENT	NO
57) STEM/DISC ASSEMBLY	YARWAY	B8024	N/A	141011A	1983	REPLACED	YES
58) STEM/DISC ASSEMBLY	YARWAY	TEZG-A30	N/A	141011A	1999	REPLACEMENT	YES
59) BACKSEAT BUSHING	YARWAY	B8024	N/A	141011A	1983	REPLACED	YES
60) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	141011A	1984	REPLACEMENT	NO
61) STEM/DISC ASSEMBLY	YARWAY	6540	N/A	SP-DBB-103-4-54	1976	REPLACED	YES
62) STEM/DISC ASSEMBLY	YARWAY	TEZG-A29	N/A	SP-DBB-103-4-54	1999	REPLACEMENT	YES

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
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1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 7 of 10

2. Plant: Susquehanna Steam Electric Station (Name)
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Unit: ONE

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

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 SECTION 9 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)
63) BACKSEAT BUSHING	YARWAY	6540	N/A	SP-DBB-103-4-54	1976	REPLACED	YES
64) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-103-4-54	2000	REPLACEMENT	NO
65) STEM/DISC ASSEMBLY	YARWAY	6015	N/A	SP-DBB-101-5-15	1976	REPLACED	YES
66) STEM/DISC ASSEMBLY	YARWAY	TEZG-A8	N/A	SP-DBB-101-5-15	1999	REPLACEMENT	YES
67) BACKSEAT BUSHING	YARWAY	6015	N/A	SP-DBB-101-5-15	1976	REPLACED	YES
68) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-101-5-15	1984	REPLACEMENT	NO
69) STEM/DISC ASSEMBLY	YARWAY	5932	N/A	SP-DBB-104-4-52	1976	REPLACED	YES
70) STEM/DISC ASSEMBLY	YARWAY	TEZG-A5	N/A	SP-DBB-104-4-52	1999	REPLACEMENT	YES
71) BACKSEAT BUSHING	YARWAY	5932	N/A	SP-DBB-104-4-52	1976	REPLACED	YES
72) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-104-4-52	1984	REPLACEMENT	NO
73) STEM/DISC ASSEMBLY	YARWAY	6285	N/A	3RV-LSL-10112D	1976	REPLACED	YES

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1. Owner: PP&L, Inc. (Name)
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Date: 06/26/00

Sheet 8 of 10

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Unit: ONE

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STEAM SYSTEM 183A, CLASS II

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) STEM/DISC ASSEMBLY	YARWAY	TEZG-B8	N/A	3RV-LSL-10112D	2000	REPLACEMENT	YES
75) BACKSEAT BUSHING	YARWAY	6285	N/A	3RV-LSL-10112D	1976	REPLACED	YES
76) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	3RV-LSL-10112D	2000	REPLACEMENT	NO
77) STEM/DISC ASSEMBLY	YARWAY	6030	N/A	SP-DBB-101-4-53	1976	REPLACED	YES
78) STEM/DISC ASSEMBLY	YARWAY	TEZG-B2	N/A	SP-DBB-101-4-53	2000	REPLACEMENT	YES
79) BACKSEAT BUSHING	YARWAY	6030	N/A	SP-DBB-101-4-53	1976	REPLACED	YES
80) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	SP-DBB-101-4-53	2000	REPLACEMENT	NO
81) STEM/DISC ASSEMBLY	YARWAY	A0476	N/A	2RV-PP-10100B	1976	REPLACED	YES
82) STEM/DISC ASSEMBLY	YARWAY	TEZG-B1	N/A	2RV-PP-10100B	2000	REPLACEMENT	YES
83) BACKSEAT BUSHING	YARWAY	A0476	N/A	2RV-PP-10100B	1976	REPLACED	YES
84) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	2RV-PP-10100B	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 9 Of 10

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 SECTION 9 REMARKS)

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
1-4	S82934	98-183-017	1RV-PP-10101B, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSH REPLACEMENT TAKEN FROM S/N B533	NON VT-2 PER MI-PS-008
5-10	S82933	98-183-018	SP-DBB-105-3-33, REPLACE VALVE BODY, STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
11-12	S82832	98-183-019	HV10109, REPLACE LEAKOFF LINE COMPRESSION FITTING	NON VT-2 PER MI-PS-008
13-16	S83476	98-183-021	2RV-LSL-10112B, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
17-20	S83477	98-183-022	3RV-LSH-10112C, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
21-24	S84570	98-183-023	SP-DBB-103-4-51, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
25-28	106322	99-183-001	1RV-LSL-10112D, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
29-32	105219	99-183-007	SP-DBB-102-4-62, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
33-36	104757	99-183-009	SP-DBB-103-5-15, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
37-40	104757	99-183-010	SP-DBB-102-4-57, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
41-44	104757	99-183-012	SP-DBB-103-4-53, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
45-48	104757	99-183-014	SP-DBB-104-4-54, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
49-52	104874	99-183-015	3RV-LSH/LSHH/LSL-10112A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
53-56	104789	99-183-017	141010A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
57-60	104789	99-183-018	141011A, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
61-64	240339	00-183-003	SP-DBB-103-4-54, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
65-68	240444	00-183-004	SP-DBB-101-5-15, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	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: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 10 of 10

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

Unit: ONE

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

3. Work Performed by: PP&L Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification 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 SECTION 9 REMARKS)

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
69-72	104757	00-183-005	SP-DBB-104-4-52, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
73-76	250692	00-183-008	3RV-LSL-10112D, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
77-80	250690	00-183-009	SP-DBB-101-4-53, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008
81-84	250871	00-183-010	2RV-PP-10100B, REPLACE STEM/DISC ASSEMBLY AND BACKSEAT BUSHING	NON VT-2 PER MI-PS-008

As Required by the Provisions of the ASME Code Rules P/O# 16556

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 60531
(Name & Address of Manufacturer)

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

3. Owner MISSISSIPPI POWER AND LIGHT COMPANY

4. Location of Plant PORT GIBSON, MISSISSIPPI

5. Pump or Valve Identification NUCLEAR SERVICE VALVES SIZE - 1"

SERIAL NUMBER(S) B0521 THRU B0545
(Brief description of service for which equipment was designed)

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

(b) National Board No. _____

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

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 1

Edition 1974, Addenda Date WINTER 1974, Case No. NONE

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	C8	AMS 5385	NOVA/HOWMET CORPORATION	DISC
	C10	AMS 5385	NOVA/HOWMET CORPORATION	DISC
(b) Forgings	B5	SA105	CAPE ANN TOOL COMPANY	BODY
	Y8	SA105	CAPE ANN TOOL COMPANY	BODY
	1764	SA182 Gr.F6a	CYCLOPS CORP.	BACKSEAT BUSHING

No. 91-0138
RECORD PACKAGE
PAGE 13 OF 99

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items 1, 2, 3a and 3b 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.

3/75 This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017.

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FORM NPV-1 (back)

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

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND

Stress analysis report on file at BECHTEL POWER CORPORATION, GAITHERSBURG, MARYLAND

Design specifications certified by THOMAS W. HABERMAS (1) Prof. Eng. State MISS Reg. No. 6064

Stress analysis report certified by HAROLD L. GREGG (1) Prof. Eng. State PA. Reg. No. 9053E

(1) Signature not required. List name only.

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

Date 12/26 1979 Signed YARWAY CORPORATION (Manufacturer) By W. A. Volger 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 PHILADELPHIA MANUFACTURERS MUTUAL INSURANCE CO. of PHILADELPHIA, PA.* have inspected the equipment described in this Data Report on _____ 19____, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date 12/26 19 79

J. Dawlaney (Inspector) Commissions NB 7325 PA 2139 (National Board, State, Province and No.)

*PART OF THE FACTORY MUTUAL SYSTEM

No. 910138 RECORD PACKAGE PAGE 14 OF 99

9118321415

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

As Required by the Provisions of the ASME Code Rules

CORRECTED COPY** P.O. 84669

1. Manufactured by YARWAY CORPORATION, BLUE BELL, PA. 19422 Order No. 48303
(Name & Address of Manufacturer)

2. Manufactured for BECHTEL POWER CORPORATION Order No. 8856-P-15-A
(Name and Address)

3. Owner PENNSYLVANIA POWER & LIGHT COMPANY

4. Location of Plant 5 MILES N. E. OF BERWICK, PA. ON ROUTE 11 NORTH

5. Pump or Valve Identification NUCLEAR SERVICE LINE VALVES, 2" AND SMALLER

SERIAL NUMBER(S) A0782 THRU A0806

(Brief description of service for which equipment was designed)

(a) Drawing No. 045111 REV. D** Prepared by YARWAY CORPORATION

(b) National Board No. NONE

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

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

Edition 1974, Addenda Date WINTER 1974, Case No. ----

	Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings	A8 & A9	AMS 5382	NOVA HOWMET	DISC
(b) Forgings	R6 & T7	SA105	CAPE ANN TOOL COMPANY	BODY
	YW 793	SA182 F6	AL TECH STEEL	BACKSEAT BUSHING
			1025	1103

(1) For manually operated valves only.

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" x 11", (2) information in items, 1, 2, 5a and 5b on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (back)

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

8. Hydrostatic test 5400 psi.

CERTIFICATION OF DESIGN

Design information on file at Bechtel Power Corp.

Stress analysis report on file at Not Required

Design specifications certified by John R. Schmiedel (1) Prof. Eng. State Pa. Reg. No. 19870

Stress analysis report certified by Not 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 August 1, 19 77 Signed Yarway Corp. (Manufacturer) By W A Volger W. A. Volger

Certificate of Authorization No. N899 expires October 28, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Pennsylvania and employed by Phila. Manufacturers Mutual Ins. Co.* of Philadelphia, Pa. have inspected the equipment described in this Data Report on August 1, 19 77, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

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

Date ~~1025~~ August 1, 1164 19 77

D. Daullary (Inspector) Commissions NB 7525 PA-2159 (National Board, State, Province and No.)

David L. Daullary

*Part of the Factory Mutual System

SHOP ORDER 76836

REGISTER 06430

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

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

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

2. Manufactured for Framatome Technologies, Lynchburg, VA 24506
(name and address of purchaser)

3. Location of installation Stock
(name and address)

4. Type 969155-02 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI Min. (tensile strength) N/A (CRN) 1996 (year built)

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

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

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 responsi for reconciling this construction data with the design specification for the facility using the parts.

*A Subsidiary of Keystone International, Inc.

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

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

Part or Appurtenance Serial Number	National Board No. in Numerical Order	Part or Appurtenance Serial Number	National Board Number in Numerical Order
(1) 91-11-1G-D1	- - - -	(26)	
(2) 91-11-1G-D2	- - - -	(27)	
(3) 91-11-1G-D3	- - - -	(28)	
(4) 91-11-1G-D4	- - - -	(29)	
(5) 91-11-1G-D5	- - - -	(30)	
(6) 91-11-1G-D6	- - - -	(31)	
(7) 91-11-1G-D7	- - - -	(32)	
(8) 91-11-1G-D8	- - - -	(33)	
(9) 91-11-1G-D9	- - - -	(34)	
(10) 91-11-1G-D10	- - - -	(35)	
(11) 91-11-1G-D11	- - - -	(36)	
(12) 91-11-1G-D12	- - - -	(37)	
(13) 91-11-1G-D13	- - - -	(38)	
(14) 91-11-1G-D14	- - - -	(39)	
(15) 91-11-1G-D15	- - - -	(40)	
(16) 91-11-1G-D16	- - - -	(41)	
(17) 91-11-1G-D17	- - - -	(42)	
(18) 91-11-1G-D18	- - - -	(43)	
(19) 91-11-1G-D19	- - - -	(44)	
(20) 91-11-1G-D20	- - - -	(45)	
(21) 91-11-1G-D21	- - - -	(46)	
(22) 91-11-1G-D22	- - - -	(47)	
(23) 91-11-1G-D23	- - - -	(48)	
(24) 91-11-1G-D24	- - - -	(49)	
(25)		(50)	

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

* For ANSI Class 1500 Valves

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this Data R is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/86)

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

FORM N-2 (back)

Mfr. Serial No. See front

CERTIFICATION OF DESIGN

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

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

CERTIFICATE OF SHOP COMPLIANCE

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

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

Date 22 July 1996 Name Yarway Corporation (NPT Certificate Holder) Signed F.W. Peszka (Authorized Representative)

F. W. Peszka

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Arkwright Mutual Insurance Company* of Norwood, MA have inspected these items described in this Data Report on 22 July 96, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III. Each part listed has been authorized for stamping on the date shown above.

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

* Factory Mutual Engineering Association

Date 22 July 96 Signed _____ (Authorized Inspector) Commissions NB 11207 INA PA 2607 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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WIP ORDER 5019652 SALES ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (matl. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25	—	(50)	

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

pplemental 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

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FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 * ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [signature] (Authorized Inspector) Commissions NB 9541 'N' PA 2389 (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

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WIP ORDER 5028781 ALES ORDER NO 2026083

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN ROAD, BLUE BELL, PA 19422-0760 (name and address of NPT Certificate Holder)
2. Manufactured for FRAMATOME TECHNOLOGIES, LYNCHBURG, VA 24508 (name and address of purchaser)
3. Location of installation STOCK (name and address)
4. Type 969155-06 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 2000 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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)	

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

*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) (when applicable) P.E. State _____ Reg. no. _____

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

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 (NPT Certificate Holder) Signed [signature] (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State 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] (Authorized Inspector) Commissions PA 2389 N (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

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WIP ORDER 5006907 SALES ORDER NO 2003656

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1998 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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)	FTI OP SUP PBG
(21) AV94-B21	—	(46)	
(22) AV94-B22	—	(47)	
(23) AV94-B23	—	(48)	
(24) AV94-B24	—	(49)	
(25) AV94-B25	—	(50)	

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

*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

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Mfr Serial No SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 (NPT Certificate Holder) Signed F.W. Peszka (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

5/21/98 Signed [signature] (Authorized Inspector) Commissions PA2389 'N' 'S' (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 1 Of 2

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

Unit: ONE

W/O 104757 & 105218 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: MAIN STOP VALVE SYSTEM 193G, 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)
1) STEM/DISC ASSEMBLY	YARWAY	5398	N/A	1RV-PDT-10101B	1976	REPLACED	YES
2) STEM/DISC ASSEMBLY	YARWAY	TEZG-A16	N/A	1RV-PDT-10101B	1999	REPLACEMENT	YES
3) BACKSEAT BUSHING	YARWAY	5398	N/A	1RV-PDT-10101B	1976	REPLACED	YES
4) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	1RV-PDT-10101B	2000	REPLACEMENT	NO
5) STEM/DISC ASSEMBLY	YARWAY	5672	N/A	3RV-PDT-10101B	1976	REPLACED	YES
6) STEM/DISC ASSEMBLY	YARWAY	TEZG-A7	N/A	3RV-PDT-10101B	1999	REPLACEMENT	YES
7) BACKSEAT BUSHING	YARWAY	5672	N/A	3RV-PDT-10101B	1976	REPLACED	YES

7. Description of Work: REPLACED STEM/DISC AND BACKSEAT BUSHINGS

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 CODE DATA REPORT(S) ATTACHED. ORIGINAL YARWAY VALVE CODE OF CONSTRUCTION
Applicable Manufacturer's Data Reports to be attached

1974 EDITION WINTER 1974 ADDENDA. YARWAY REPLACEMENT PARTS 1986 EDITION NO .

ADDENDA.

CERTIFICATION OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [signature] Date June 29 19 2000
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 7-4-99 to 4-24-2000, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date JUNE 29 19 2000

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

1. Owner: PP&L, Inc. (Name)
   Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/26/00

Sheet 2 of 2

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

Unit: ONE

W/O 104757 & 105218 (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: MAIN STOP VALVE SYSTEM 193G, 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) BACKSEAT BUSHING	YARWAY	HT # 5293	N/A	3RV-PDT-10101B	1999	REPLACEMENT	NO

Assigned to: ???? FOR INFORMATION ONLY Expires On: \??

WIP ORDER 5019652 SALES ORDER NO 2015457

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

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

1. Manufactured and certified by YARWAY CORPORATION, 480 NORRISTOWN 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 (drawing no.) AMS5385E (disc) (mat'l. spec. no.) 52,000 PSI MIN. (tensile strength) N/A (CRN) 1999 (year built)
5. ASME Code, Section III: 1986 (edition) NONE (addenda date) 1 (class) — (Code Case no.)
6. Fabricated in accordance with Const. Spec. (Div. 2 only) — (no.) Revision — Date —
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-A1	—	(26) TEZG-A26	—
(2) TEZG-A2	—	(27) TEZG-A27	—
(3) TEZG-A3	—	(28) TEZG-A28	—
(4) TEZG-A4	—	(29) TEZG-A29	—
(5) TEZG-A5	—	(30) TEZG-A30	—
(6) TEZG-A6	—	(31) TEZG-A31	—
(7) TEZG-A7	—	(32) TEZG-A32	—
(8) TEZG-A8	—	(33) TEZG-A33	—
(9) TEZG-A9	—	(34) TEZG-A34	—
(10) TEZG-A10	—	(35)	
(11) TEZG-A11	—	(36)	
(12) TEZG-A12	—	(37)	
(13) TEZG-A13	—	(38)	
(14) TEZG-A14	—	(39)	
(15) TEZG-A15	—	(40)	
(16) TEZG-A16	—	(41)	
(17) TEZG-A17	—	(42)	
(18) TEZG-A18	—	(43)	
(19) TEZG-A19	—	(44)	
(20) TEZG-A20	—	(45)	
(21) TEZG-A21	—	(46)	
(22) TEZG-A22	—	(47)	
(23) TEZG-A23	—	(48)	
(24) TEZG-A24	—	(49)	
(25) TEZG-A25	—	(50)	

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

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

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PAGE 7 OF 25

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FORM N-2 (back)

Mfr. Serial No. SEE FRONT

CERTIFICATION OF DESIGN

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

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

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 MAY 28, 1999 Name YARWAY CORPORATION (NPT Certificate Holder) Signed Gerald R. Frank (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 * ARKWRIGHT MUTUAL INSURANCE COMPANY of NORWOOD, MA have inspected these items described in this Data Report on 05/28/99, 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 05/28/99 Signed [signature] (Authorized Inspector) Commissions NB9541'N' PA2389 (Nat'l. Bd. [incl. endorsements] state or prov. and no.)

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FORM R-1 REPORT OF WELDED REPAIR

027

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L (name of repair organization) — 98-027-001 (Form R No.)

Two North Ninth Street, Allentown, Pa. 18101 (address) — S82863 (P.O. No., Job No. etc.)

2. Owner PP&L (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification BOILER (boiler, pressure vessel) Name of original manufacturer Boiler Engineering & Supply

5. Identifying nos.: 15477 (mfg serial no.) 11793 (National Board No.) Pa B111233 (jurisdiction no.) 0S101B (other) 1975 (year built)

6. NBIC Edition/Addenda: 1998 (edition) None (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1974 Ed Winter 1975 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed NO Add (edition/addenda)

7. Description of work: Replaced Valve 021026, in Boiler Piping. (use supplemental sheet, Form R-4, if necessary)

Date of Repair: 12/18/98

Pressure Test, if applied See Note 1 Psi MAWP 300 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Surface NDE performed in lieu of Hydro Static Testing. ISLT performed with boiler in service at Normal Operating Temperature 406°F & 250 psig

CERTIFICATE OF COMPLIANCE

I, EDWARD B GERLACH, 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. N/A expires on N/A

Date 7/10/2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLARY, 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 DEC 18, 1998 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 JULY 10, 2000 Signed [signature] (inspector) Commissions NB 7525 IBVA PA2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

065

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 99-065-001 (Form R No.)

Two North Ninth Street, Allentown, Pa. 18101 (address) — P80397 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer CARRIER

5. Identifying nos.: 700469 (mfg serial no.) 142223 (National Board No.) Pa 469442 (jurisdiction no.) 0K325A (other) 1979 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1998 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1977 Ed Summer 78 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1998 Add (edition/addenda)

7. Description of work: Repaired Heat Exchanger areas of corrosion by welding. (use supplemental sheet, Form R-4, if necessary)

Date of Repair: 05/20/99.

Pressure Test, if applied See Note 1 Psi MAWP 150 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface NDE performed in lieu of Hydro Static Testing. ISLT performed with service water system at Normal Temperature of 90° F AND 105 PSIG.

CERTIFICATE OF COMPLIANCE

I, Edward B Gerlach, 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. N/A expires on N/A

Date 7/6, 2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, David Daullary, 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 April 29, 1999 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 July 7, 2000 Signed [signature] (inspector) Commissions NB 7525 IBNA PA2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

065

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 00-065-001 (Form R No.)

Two North Ninth Street, Allentown, Pa. 18101 (address) — 103038 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer CARRIER

5. Identifying nos.: 700474 (mfg serial no.) 142594 (National Board No.) Pa 469443 (jurisdiction no.) 0K325B (other) 1979 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1999 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1977 Ed Summer 78 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1998 Add (edition/addenda)

7. Description of work: Repair-Install Pipe Nozzle to restore threaded small pipe connection. (use supplemental sheet, Form R-4, if necessary)

Date of Repair: 01/24/00.

Pressure Test, if applied See Note 1 Psi MAWP 150 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface NDE performed in lieu of Hydro Static Testing. ISLT performed with service water system at Normal Temperature of 90° F AND 105 PSIG.

CERTIFICATE OF COMPLIANCE

I, Edward B Gerlach, 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 7/6, 2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLARY, 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 JAN 24, 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 July 7, 2000 Signed [signature] (inspector) Commissions NB 7525 IBNA PA2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 98-133-001 (Form R No.)

Two North Ninth Street, Allentown, Pa. 18101 (address) — P80768 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer CARRIER

5. Identifying nos.: 700195 (mfg serial no.) 129361 (National Board No.) Pa 469356 (jurisdiction no.) 1K102A (other) 1976 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1998 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1974 Ed Summer 1975 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1998 Add (edition/addenda)

7. Description of work: Repaired Heat Exchanger areas of corrosion by welding. (use supplemental sheet, Form R-4, if necessary)

Date of Repair 1/12/99

Pressure Test, if applied See Note 1 Psi MAWP 225 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface NDE performed in lieu of Hydro Static Testing. ISLT performed with service water system at Normal Temperature of 87° F AND 145 PSIG.

CERTIFICATE OF COMPLIANCE

I, EDWARD B GORLACH, 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. N/A expires on N/A

Date 7/6, 2000 PP&L Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLARY, 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 JAN 12, 1999 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 July 7, 2000 Signed [signature] (inspector) Commissions NB 7525 IBNA PA 2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 99-133-001 (Form R No.)
Two North Ninth Street, Allentown, Pa. 18101 (address) — 101127 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)
Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)
P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer CARRIER

5. Identifying nos.: 700191 (mfg serial no.) 129298 (National Board No.) Pa 469357 (jurisdiction no.) 1K102B (other) 1976 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1998 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1974 Ed Summer 1975 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1998 Add (edition/addenda)

7. Description of work: Repaired Heat Exchanger by installation of Small Pipe Nozzle (use supplemental sheet, Form R-4, if necessary)
Date of Repair: 12/21/99

Pressure Test, if applied See Note 1 Psi MAWP 225 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:
N/A
(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface NDE performed in lieu of Hydro Static Testing. ISLT performed with service water system at Normal Temperature of 87°F AND 145 PSIG.

CERTIFICATE OF COMPLIANCE

I, EDWARD B GERLACH 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 7/10, 2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLAEY, 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 DEC 21, 1999 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 July 10, 2000 Signed [signature] (inspector) Commissions NB7525 IBMA PA2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

134K

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 99-134-001 (Form R No.)

Two North Ninth Street, Allentown, Pa. 18101 (address) — P80966 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer CARRIER

5. Identifying nos.: 700205 (mfg serial no.) 129861 (National Board No.) Pa 469359 (jurisdiction no.) 1K106B (other) 1976 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1998 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1976 Ed No Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1998 Add (edition/addenda)

7. Description of work: Repaired Heat Exchanger Small Pipe Connection. (use supplemental sheet, Form R-4, if necessary)

Date of Repair: 05/18/99.

Pressure Test, if applied See Note 1 Psi MAWP 225 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface NDE performed in lieu of Hydro Static Testing. ISLT performed with service water system at Normal Temperature of 87° F AND 145 PSIG.

CERTIFICATE OF COMPLIANCE

I, Edward B Gerlach, 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. N/A expires on N/A

Date 7/6, 2000 PP&L, Inc. (name of repair organization) Signed Edward B Gerlach (authorized representative)

CERTIFICATE OF INSPECTION

I, David Daullary, 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 May 18, 1999 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 July 7, 2000 Signed (inspector) Commissions NB 7525 IBNA PA2659 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — (SEE BLOCK 7) (Form R No.)
Two North Ninth Street, Allentown, Pa. 18101 (address) — (SEE BLOCK 7) (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)
Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)
P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer YUBA

5. Identifying nos.: 72-H-714-3A (mfg serial no.) 2209 (National Board No.) Pa 460970 (jurisdiction no.) 1E103A (other) 1975 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1999 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1974 Ed Summer 1974 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1999 Add (edition/addenda)

7. Description of work: Form R/ Job # - CRF # 00-147-003/196402 , 00-147-004/250132, 00147-008/196402, (use supplemental sheet, Form R-4, if necessary)
00-147-009/248997- Repaired areas of heat exchanger by replacing thin wall areas and welding in tube plugs.
Date of Repair: 04/28/00.

Pressure Test, if applied See Note 1 Psi MAWP 15 psig ext. / 75 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface and Volumetric Weld examination performed in lieu of Hydro Static Testing.
ISLT performed with Extraction Steam System in service at a normal Temperature 293° and 45 PSIG.

CERTIFICATE OF COMPLIANCE

I, EDWARD B GERLACH 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 7/6, 2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLARY, 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 APRIL 28, 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 July 7, 2000 Signed [signature] (inspector) Commissions NB 7525 IBNA PA 2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 00-147-002 & 00-147-007 (Form R No.)
Two North Ninth Street, Allentown, Pa. 18101 (address) — 250131 & 196405 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)
Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)
P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer YUBA

5. Identifying nos.: 72-H-714-3B (mfg serial no.) 2210 (National Board No.) Pa 460971 (jurisdiction no.) 1E103B (other) 1975 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1999 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1974 Ed Summer 1974 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1999 Add (edition/addenda)

7. Description of work: Repaired areas of heat exchanger by replacing thin wall areas. (use supplemental sheet, Form R-4, if necessary)
Date of Repair: 04/28/00.

Pressure Test, if applied See Note 1 Psi MAWP 15 psig ext./ 75 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface and Volumetric Weld examination performed in lieu of Hydro Static Testing.
ISLT performed with Extraction Steam System in service at a normal Temperature 293° and 45 PSIG.

CERTIFICATE OF COMPLIANCE

I, Edward B Gorlach, 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 7/6, 2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, David Daullary, 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 APRIL 28, 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 July 7, 2000 Signed [signature] (inspector) Commissions NB 2525 IB/NA PA 2659 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 00-147-001 (Form R No.)
Two North Ninth Street, Allentown, Pa. 18101 (address) — 196407 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)
Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)
P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer YUBA

5. Identifying nos.: 72-H-714-3C (mfg serial no.) 2211 (National Board No.) Pa 460972 (jurisdiction no.) 1E103C (other) 1975 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1999 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1974 Ed Summer 1974 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1999 Add (edition/addenda)

7. Description of work: Repaired areas of heat exchanger by replacing thin wall areas. (use supplemental sheet, Form R-4, if necessary)

Date of Repair: 04/18/00.

Pressure Test, if applied See Note 1 Psi MAWP 15 psig ext / 75 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface and Volumetric Weld examination performed in lieu of Hydro Static Testing.
ISLT performed with Extraction Steam System in service at a normal Temperature 293° and 45 PSIG.

CERTIFICATE OF COMPLIANCE

I, EDWARD B GERLACH, 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 7/6, 2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLARY, 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 APRIL 18, 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 July 7, 2000 Signed [signature] (inspector) Commissions NB 7525 IBNA PA 2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 00-147-006 (Form R No.)
Two North Ninth Street, Allentown, Pa. 18101 (address) — 250857 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)
Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)
P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer YUBA

5. Identifying nos.: 72-H-714-3C (mfg serial no.) 2211 (National Board No.) Pa 460972 (jurisdiction no.) 1E103C (other) 1975 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1999 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1974 Ed Summer 1974 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1999 Add (edition/addenda)

7. Description of work: Repaired areas of heat exchanger by replacing thin wall areas. (use supplemental sheet, Form R-4, if necessary)

Date of Repair : 04/28/00

Pressure Test, if applied See Note 1 Psi MAWP 15 psig ext/ 75 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface and Volumetric Weld examination performed in lieu of Hydro Static Testing.
ISLT performed with Extraction Steam System in service at a normal Temperature 293° and 45 PSIG.

CERTIFICATE OF COMPLIANCE

I, EDWARD B GERLACH, 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 7/6, 2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLAY, 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 APRIL 28, 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 JULY 7, 2000 Signed [signature] (inspector) Commissions NB7525 IBNA PA2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 00-164-003 (Form R No.)

Two North Ninth Street, Allentown, Pa. 18101 (address) — 102062 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)

Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer American Standard

5. Identifying nos.: 3-66398-01-3 (mfg serial no.) 24906 (National Board No.) Pa 460990 (jurisdiction no.) 1E126A (other) 1973 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1999 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1971 Ed Winter 1972 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1998 Add (edition/addenda)

7. Description of work: Repaired Heat Exchanger Water box area of corrosion by welding. (use supplemental sheet, Form R-4, if necessary)

Date of Repair: 04/15/00.

Pressure Test, if applied See Note 1 Psi MAWP 150 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface NDE performed in lieu of Hydro Static Testing. ISLT performed with service water system at Normal Temperature of 110° F AND 130 PSIG.

CERTIFICATE OF COMPLIANCE

I, EDWARD B GERLACH, 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 7/6, 2000 PP&L, Inc. (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLAR, 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 APRIL 15, 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 July 7, 2000 Signed [signature] (inspector) Commissions NB 7525 IBNA PA 2159 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — 00-184-001 (Form R No.)
Two North Ninth Street, Allentown, Pa. 18101 (address) — 100785 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc. (name)
Two North Ninth Street, Allentown, Pa. 18101 (address)

3. Location of installation Susquehanna Steam Electric Station (name)
P.O. Box 467, Berwick, Pa. 18603 (address)

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer General Electric

5. Identifying nos.: 236981 (mfg serial no.) 59584 (National Board No.) Pa 469364 (jurisdiction no.) 1T104B (other) 1976 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1999 (addenda)

Original Code of Construction for Item: ASME Sec VIII Div I (name/section/division) 1974 Ed Summer 1975 Add (edition/addenda)

Construction Code Used for Repair Performed: ASME Sec VIII Div I (name/section/division) 1998 Ed 1999 Add (edition/addenda)

7. Description of work: Installed lifting lugs on Heat Exchanger Head. Date of Repair 4/21/00.
(use supplemental sheet, Form R-4, if necessary)

Pressure Test, if applied See Note 1 Psi MAWP 300 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

N/A

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Note 1: Surface NDE performed in lieu of Hydro Static Testing.

CERTIFICATE OF COMPLIANCE

I, Edward B Gerlach, 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 7/6, 2000 PP&L Inc. (name of repair organization) Signed Edward B Gerlach (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DAULLARY, 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 APRIL 21, 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 JULY 10, 2000 Signed (inspector) Commissions NB 7525 IBNA PA 2457 (National Board (incl endorsements), and jurisdiction, and no.)

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — OUT-99-2 (Form R No.)
Two North Ninth Street, Allentown, PA 18101-1179 (address)

2. Owner Same as Above (name)
(address)

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

4. Unit identification Pressure Vessel (boiler, pressure vessel) Name of original manufacturer C. M. Kemp

5. Identifying nos.: 3953 (mfg serial no.) 3953 (National Board No.) 469351 (jurisdiction no.) (other) 1975 (year built)

6. NBIC Edition/Addenda: 1998 (edition) A98 (addenda)

Original Code of Construction for Item: ASME Sc VIII Div I (name/section/division) 1974/Addenda not known (edition/addenda)

Construction Code Use for Repair Performed: ASME Sc VIII Div I (name/section/division) 1998/A98 (edition/addenda)

7. Description of work: (use supplemental sheet, Form R-4, if necessary)
On Instrument Air Dryer 1F116C, replace the air dryer pipe and weld pipe to air dryer upper head.
The air dryer is capped for a heating element.

Pressure Test, if applied Note 1 psi

8. Replacement Parts. Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:
Not applicable

9. Remarks: (name of part, item number, data report type, mfr's. name and identifying stamp)
Note1: A satisfactory Pneumatic leak test at 100 psi was performed.

CERTIFICATE OF COMPLIANCE

I, Ruben D. Choug, 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. 2598 expires on 12/18, 2000
Date 11/3, 1999 PP&L, Inc (name of repair organization) Signed Ruben D. Choug (authorized representative)

CERTIFICATE OF INSPECTION

I, WILLIAM R. ROGERS, holding a valid Commission issued by the National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of PA and employed by Factory Mutual INSURANCE Co. of Norwood, MA have inspected the work described in this report on 11-5, 99 and state that to the best of my knowledge and belief this work complies with the applicable reqirements 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 11-5, 99 Signed William R. Rogers III (inspector) Commissions PA 2204 (National Board (incl. endorsements) and jurisdiction, and no.)

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Rev 8

APPENDIX D.2

MODIFICATION GROUP NIS-2 Forms

WORK ABSTRACT

The Site Modifications Group is responsible for preparing Work Orders (work packages) for fabrication and installation of design changes in accordance with ASME Section XI and the National Board Inspection Code. This work is documented on NIS-2 Forms, or on R-1 Forms, which are submitted herewith.

MODIFICATION INSTALLATION GROUP

Design Change Packages for ASME Section XI (Class 1, 2 and 3), and the National Board Inspection Code, installed in Unit 1 since the completion of the Tenth Refueling Outage through completion of the Eleventh Refueling Outage are summarized below:

DESIGN CHANGE PACKAGE NUMBER	SYSTEM / CLASS	DESCRIPTION
96-9048	016A III	Installed a biocide injection system in RHR Service Water System
96-3020 & 96-3018	023B III	Installed a Diesel Fuel Oil Filtration System
97-3100C and E	024A III	Replaced Fuel Oil Day Tank level transmitters
96-9048	054A III	Installed a biocide injection system in Emergency Service Water System
188319	144 *	Repaired tube sheet in 1F-135D
188324	144 *	Replaced tube sheet in 1F-135E
97-3011A	145A I	Installed new discs in valves HV14107A and B, Corrected Copy Submittal
225259	154A III	Modified Support SP-HBC-140-H2001
96-3001F	162A I	Repaired In-Core Monitor Housing 32-09
99-9007	164B I	Deleted valves 143F034A, B and 143F035A and B and repaired SP-DCA-151-2
99-9006	164B I	Repaired SP-DCA-143-2
99-9005	164B I	Repaired SP-DCA-143-H2005
99-9005	164D II	Repaired SP-DCB-121-H6
99-9005	173A II	Repaired SP-HCB-138-H3

* National Board Inspection Code repair of an ASME section VIII vessel in a non-nuclear system.

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 08/18/1999

Sheet 1 of 2

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

Unit: COMMON

DCP 96-9048: WA's C73280, C73281, C73377
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: RHR Service Water System 016A 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
26" Large Pipe Assembly	Bechtel	N/A	N/A	HRC-16-5	1982	Replaced	Yes
26" Large Pipe Assembly	PP&L	N/A	N/A	HRC-16-5	1999	Replacement	No
1" & ½" Small Pipe Assembly	PP&L	N/A	N/A	SPHCC16-1	1999	Replacement (New)	No
½" Ball Valve	BNL	A970404-1-2	N/A	012806A	1997	Replacement (New)	Yes
1" Check Valve	BW/IP	E077A-1-3	N/A	012807A	1997	Replacement (New)	Yes
1" Ball Valve	BNL	A970404-2-2	N/A	012808A	1997	Replacement (New)	Yes
Small Pipe Support	PP&L	N/A	N/A	SPHCC16-H1	1999	Replacement (New)	No

7. Description of Work: A 1" branch connection for biocide inj. system has been added to the 26" piping.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 85 psi Test Temp. 48 °F

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

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

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

Date: 08/18/1999

Sheet 2 of 2

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

Unit: COMMON

DCP 96-9048: WA's C73280, C73281, 73377
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: RHR Service Water System 016A 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
26" Large Pipe Assembly	Bechtel	N/A	N/A	HRC-16-6	1982	Replaced	Yes
26" Large Pipe Assembly	PP&L	N/A	N/A	HRC-16-6	1999	Replacement	No
1" & ½" Small Pipe Assembly	PP&L	N/A	N/A	SPHCC16-2	1999	Replacement (New)	No
½" Ball Valve	BNL	A970404-1-4	N/A	012806B	1997	Replacement (New)	Yes
1" Check Valve	BW/IP	E077A-1-2	N/A	012807B	1997	Replacement (New)	Yes
1" Ball Valve	BNL	A970404-2-3	N/A	012808B	1997	Replacement (New)	Yes
Small Pipe Support	PP&L	N/A	N/A	SPHCC16-H2	1999	Replacement (New)	No

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

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

1. Manufactured and certified by 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
(name and address)
4. Model No., Series No., or Type VALVE Drawing HBV-A2-04-0040 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 / (edition) - / (addenda date) 3 / (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 1/2" (in.) Outlet size 1/2" (in.)
7. Material: Body SA-479 TY316 / Bonnet SA-479 TY316 / Disk SA-479 Ty316 / Bolting SA-193GrB8/SA-194Gr8B /

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A970404-1-(1THRU2) /		K158	K159	K161
A970404-1-(3THRU4) /		K158	L30	K161

* Supplemental information in 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.

(12/88) 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. A970404-1-(1THRU4)

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 300# (1)
(pressure) (temperature)

9. Cold working pressure 171PSIG @ 97F psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 08/14/97 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 CONNECTICUT and employed by COMMERCIAL UNION INS. of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 08/14/97, 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 8-14-97 Signed [signature] (authorized inspector) Commissions CT1343 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(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

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
(name and address)
4. Model No., Series No., or Type VALVE Drawing HBV-A2-10-0040 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 / (edition) - (addenda date) 3 / (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 1" (in.) Outlet size 1" (in.)
7. Material: Body SA-479 TY316 / Bonnet SA-479 TY316 / Disk SA-479 Ty316 / Bolting SA-193GrB8/SA-194Gr8B /

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A970404-2-(1THRU4)		L30 /	H57 /	K158 /

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

(12/88) 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)

A970404-2-(1THRU4)

Certificate Holder's Serial No. _____

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 300# (1)
(pressure) (temperature)

9. Cold working pressure 171PSIG @ 97F psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

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

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 08/27/97 Name BNL INDUSTRIES, INC. (N Certificate Holder) Signed _____ (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 08/27/97, 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 8-27-97 Signed _____ (Authorized Inspector) Commissions CT 1343 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(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

1. Manufactured and certified by BW/IP International, Inc. Valve Division, 701 First Street, Williamsport, PA 17701
   (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 or Owner)
3. Location of installation Susquehanna Station, PO Box 467, Berwick, PA 18603
   (name and address)
4. Model No., Series No., or Type Check Drawing W9724906 Rev. A CRN --
5. ASME Code, Section III, Division 1: 1989 / (edition) -- / (addenda date) 3 / (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1 (in.) Outlet size 1 (in.)
7. Material: Body SA182-F316L / Bonnet -- Disk SA479-316 / Bolting --

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E077A-1-1 /	N/A	HT#-8656292	N/A	HT#-709542
E077A-1-2 /	N/A	HT#-8656292	N/A	HT#-709542
E077A-1-3 /	N/A	HT#-8656292	N/A	HT#-709542
E077A-1-4 /	N/A	HT#-8656292	N/A	HT#-709542

* Supplemental information in 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.

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Assigned to: ????

FOR INFORMATION ONLY

Expires On: \??

FORM NPV-1 (back)

8. Remarks 1"-300# Durabla Silent Check Valve

BW/IP SO# E077A-1

9. Design conditions 600. (pressure) psi 100 (temperature) °F or valve pressure class 300# (1)

10. Cold working pressure 600 psi at 100°F

11. Hydrostatic test 900 psi. Disk differential test pressure 660 psi

CERTIFICATION OF DESIGN

Design Specification certified by Dale Sattar P.E. State PA Reg. no. 019525E

Design Report certified by N/A P.E. State -- Reg. no. --

CERTIFICATE OF SHOP COMPLIANCE

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

N Certificate of Authorization No. N1712 Expires 4/15/98

Date 9/23/97 Name BW/IP International, Inc. Valve Division (N Certificate Holder) Signed R. Stannett (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, Mass. have inspected the pump, or valve, described in this Data Report on 5-22 to 9-26, 19 97, 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 9-26-97 Signed Charles Young (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

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

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: MAY 24, 2000

Sheet 1 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018 REFERENCE REMARKS FOR WO NUMBERS.
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'A' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC7-1	1998	REPLACEMENT	NO
'A' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC11-1	1998	REPLACEMENT	NO
'A' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3109-1	1998	REPLACEMENT	NO
'A' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3110-1	1998	REPLACEMENT	NO
'A' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3109-H1	1998	REPLACEMENT	NO
'A' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3110-H1	1998	REPLACEMENT	NO
'A' TUBING	PPL	NA	NA	J-220, SHT 13	1998	REPLACEMENT	NO

7. Description of Work: Installation of new Diesel Fuel Oil Filtration System.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ **Ref Pg 9 for Testing**
Other ☐ Pressure _____ psi Test Temp. _____ °F

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

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

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

Date: MAY 24, 2000

Sheet 2 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018 REFERENCE REMARKS FOR WO NUMBERS.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'A' TUBING	PPL	NA	NA	J-220, SHT 21	1998	REPLACEMENT	NO
'A' VALVE (PIPE)	BNL	A971204-2-3	NA	020332	1998	REPLACEMENT	YES
'A' VALVE (PIPE)	BNL	A971204-2-4	NA	020335	1998	REPLACEMENT	YES
'A' VALVE (TUBING)	BNL	A971103-1-6	NA	020348	1998	REPLACEMENT	YES
'A' VALVE (TUBING)	BNL	A971103-1-7	NA	020350	1998	REPLACEMENT	YES
'A' VALVE (TUBING)	BNL	A971103-1-8	NA	020352	1998	REPLACEMENT	YES
'A' VALVE (TUBING)	BNL	A971103-1-9	NA	020354	1998	REPLACEMENT	YES
'A' VALVE (TUBING)	BNL	A971103-1-10	NA	020357	1998	REPLACEMENT	YES
'B' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC8-1	1998	REPLACEMENT	NO
'B' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC12-1	1998	REPLACEMENT	NO
'B' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3111-1	1998	REPLACEMENT	NO

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

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

Date: MAY 24, 2000

Sheet 3 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018 REFERENCE REMARKS FOR WO NUMBERS.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'B' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3112-1	1998	REPLACEMENT	NO
'B' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3111-H1	1998	REPLACEMENT	NO
'B' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3112-H1	1998	REPLACEMENT	NO
'B' TUBING	PPL	NA	NA	J-220, SHT 14	1998	REPLACEMENT	NO
'B' TUBING	PPL	NA	NA	J-220, SHT 22	1998	REPLACEMENT	NO
'B' VALVE (PIPE)	BNL	A971204-2-5	NA	020336	1998	REPLACEMENT	YES
'B' VALVE (PIPE)	BNL	A971204-2-6	NA	020339	1998	REPLACEMENT	YES
'B' VALVE (TUBING)	BNL	A971103-1-11	NA	020358	1998	REPLACEMENT	YES
'B' VALVE (TUBING)	BNL	A971103-1-12	NA	020360	1998	REPLACEMENT	YES
'B' VALVE (TUBING)	BNL	A971103-1-13	NA	020362	1998	REPLACEMENT	YES
'B' VALVE (TUBING)	BNL	A971103-1-14	NA	020364	1998	REPLACEMENT	YES

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

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

Date: MAY 24, 2000

Sheet 4 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018 REFERENCE REMARKS FOR WO NUMBERS. (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'B' VALVE (TUBING)	BNL	A971103-1-15	NA	020367	1998	REPLACEMENT	YES
'C' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC9-1	1998	REPLACEMENT	NO
'C' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC13-1	1998	REPLACEMENT	NO
'C' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3113-1	1998	REPLACEMENT	NO
'C' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3114-1	1998	REPLACEMENT	NO
'C' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3113-H1	1998	REPLACEMENT	NO
'C' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3114-H1	1998	REPLACEMENT	NO
'C' TUBING	PPL	NA	NA	J-220, SHT 15	1998	REPLACEMENT	NO
'C' TUBING	PPL	NA	NA	J-220, SHT 23	1998	REPLACEMENT	NO
'C' VALVE (PIPE)	BNL	A971204-2-7	NA	020340	1998	REPLACEMENT	YES
'C' VALVE (PIPE)	BNL	A971204-2-8	NA	020343	1998	REPLACEMENT	YES

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

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

Date: MAY 24, 2000

Sheet 5 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018
REFERENCE REMARKS FOR WO NUMBERS.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'C' VALVE (TUBING)	BNL	A971103-1-16	NA	020368	1998	REPLACEMENT	YES
'C' VALVE (TUBING)	BNL	A971103-1-17	NA	020370	1998	REPLACEMENT	YES
'C' VALVE (TUBING)	BNL	A971103-1-18	NA	020372	1998	REPLACEMENT	YES
'C' VALVE (TUBING)	BNL	A971103-1-19	NA	020374	1998	REPLACEMENT	YES
'C' VALVE (TUBING)	BNL	A971103-1-20	NA	020377	1998	REPLACEMENT	YES
'D' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC10-1	1998	REPLACEMENT	NO
'D' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC14-1	1998	REPLACEMENT	NO
'D' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3115-1	1998	REPLACEMENT	NO
'D' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3116-1	1998	REPLACEMENT	NO
'D' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3115-H1	1998	REPLACEMENT	NO
'D' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3116-H1	1998	REPLACEMENT	NO

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

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

Date: MAY 24, 2000

Sheet 6 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018 REFERENCE REMARKS FOR WO NUMBERS.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'D' TUBING	PPL	NA	NA	J-220, SHT 16	1998	REPLACEMENT	NO
'D' TUBING	PPL	NA	NA	J-220, SHT 25	1998	REPLACEMENT	NO
'D' VALVE (PIPE)	BNL	A971204-2-9	NA	020344	1998	REPLACEMENT	YES
'D' VALVE (PIPE)	BNL	A971204-2-10	NA	020347	1998	REPLACEMENT	YES
'D' VALVE (TUBING)	BNL	A971103-1-21	NA	020378	1998	REPLACEMENT	YES
'D' VALVE (TUBING)	BNL	A971103-1-22	NA	020380	1998	REPLACEMENT	YES
'D' VALVE (TUBING)	BNL	A971103-1-23	NA	020382	1998	REPLACEMENT	YES
'D' VALVE (TUBING)	BNL	A971103-1-24	NA	020384	1998	REPLACEMENT	YES
'D' VALVE (TUBING)	BNL	A971103-1-25	NA	020387	1998	REPLACEMENT	YES
'E' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC241-1	1998	REPLACEMENT	NO
'E' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCC242-1	1998	REPLACEMENT	NO

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

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

Date: MAY 24, 2000

Sheet 7 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018 REFERENCE REMARKS FOR WO NUMBERS. (Repair Organization P.O. No., Job No., etc.)

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'E' LARGE PIPE SUPPORT	PPL	NA	NA	HCD241-H1	1998	REPLACEMENT	NO
'E' LARGE PIPE SUPPORT	PPL	NA	NA	HCD242-H1	1998	REPLACEMENT	NO
'E' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3103-1	1998	REPLACEMENT	NO
'E' LARGE PIPE ASSEMBLY	PPL	NA	NA	HCD3104-1	1998	REPLACEMENT	NO
'E' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3103-H1	1998	REPLACEMENT	NO
'E' LARGE PIPE SUPPORT	PPL	NA	NA	HCD3104-H2	1998	REPLACEMENT	NO
'E' TUBING	PPL	NA	NA	J-220, SHT 17	1998	REPLACEMENT	NO
'E' TUBING	PPL	NA	NA	J-220, SHT 18	1998	REPLACEMENT	NO
'E' VALVE (PIPE)	BNL	A971204-2-1	NA	020316	1998	REPLACEMENT	YES
'E' VALVE (PIPE)	BNL	A971204-2-2	NA	020319	1998	REPLACEMENT	YES
'E' VALVE (TUBING)	BNL	A971103-1-1	NA	020320	1998	REPLACEMENT	YES

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

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

Date: MAY 24, 2000

Sheet 8 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018
REFERENCE REMARKS FOR WO NUMBERS.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
'E' VALVE (TUBING)	BNL	A971103-1-2	NA	020322	1998	REPLACEMENT	YES
'E' VALVE (TUBING)	BNL	A971103-1-3	NA	020324	1998	REPLACEMENT	YES
'E' VALVE (TUBING)	BNL	A971103-1-4	NA	020326	1998	REPLACEMENT	YES
'E' VALVE (TUBING)	BNL	A971103-1-5	NA	020329	1998	REPLACEMENT	YES

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

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

Date: MAY 24, 2000

Sheet 9 of 9

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

Unit: COMMON (DIESEL)

NOTE: PMR 96-3020 & PMR 96-3018 REFERENCE REMARKS FOR WO NUMBERS.
Repair Organization P.O. No., Job No., etc.

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

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: FUEL OIL SYSTEM 023B 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

6. Identification of Components Repaired or Replaced and Replacement Components

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

7. Description of Work: Installation of new Diesel Fuel Oil Filtration System

8a. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ] Pressure 168 psi Test Temp. 68 °F **WO C83042 for 'A' testing**

8b. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ] Pressure 168 psi Test Temp. 72 °F **WO C83043 for 'B' testing**

8c. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ] Pressure 168 psi Test Temp. 66 °F **WO C83040 for 'C' testing**

8d. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ] Pressure 168 psi Test Temp. 67 °F **WO C83045 for 'D' testing**

8e. Tests Conducted: Hydrostatic [X] Pneumatic [ ] Nominal Operating Pressure [ ] Other [ ] Pressure 168 psi Test Temp. 67 °F **WO's C73778 & C 73875 for 'E' testing**

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

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

1. Manufactured and certified by 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
(name and address)
4. Model No., Series No., or Type VALVE Drawing HBV-B2-30-0019 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 / (edition) - / (addenda date) 3 / (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 3" (in.) Outlet size 3" (in.)
7. Material: Body SA-479 TY 316 / Bonnet SA-479 TY 316 / Disk SA-479 Ty316 / Bolting SA-193 GrB8/SA-194 Gr8B

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A971204-2-(1THRU10) /		M2 /	M3 /	L179 /

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Certificate Holder's Serial No. A971204-2-(1THRU10)

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 150# (1)
(pressure) (temperature)

9. Cold working pressure 150PSIG @ 100F psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 305 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 01/23/98 Name BNL INDUSTRIES, INC. (N Certificate Holder) Signed _____ (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 01/23/98, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-23-98 Signed _____ (Authorized Inspector) Commissions CT 1343 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(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

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
(name and address)
4. Model No., Series No., or Type VALVE Drawing HBV-A2-04-0029 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 / (edition) - / (addenda date) 3 / (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 1/2" Outlet size 1/2" (in.)
7. Material: Body SA-479 TY316 / Bonnet SA-479 TY316 / Disk SA-479 Ty316 / Bolting SA-193 GrB7/SA-194 Gr2H

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A971103-1-(1THRU20) /		L128 /	L114 /	K90 /
A971103-1-(21THRU25) /		J192 /	L114 /	K90 /

* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

(12/88) 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. A971103-1-(1THRU25)

8. Design conditions _____ psi (pressure) _____ °F (temperature) or valve pressure class ANSI 150# (1)

9. Cold working pressure 150PSIG @ 100F psi at 100°F

10. Hydrostatic test 425 psi. Disk differential test pressure 320 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 03/13/98 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 CONNECTICUT and employed by COMMERCIAL UNION INS. of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 03/13/98, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-13-98 Signed [signature] (authorized inspector) Commissions CT 1343 (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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 5/1/2000

Sheet 1 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: One

① DCP 97-9100C, WA C83285,
② DCP 97-3100E, WA C93026
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 024A – Diesel Generator and Auxiliary System, ASME Class 3

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, No 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)
Valve	Tufline Xomox	89266L-6	NA	034072A	1979	Replaced ①	Y
Pipe Support	Bechtel	NA	NA	SPHBC93-H2000	1982	Replaced ①	N
Pipe Support	Bechtel	NA	NA	SPHBC93-H2001	1982	Replaced ①	N
Valve	Tufline Xomox	89266L-2	NA	034073A	1979	Replaced ①	Y
Valve	BNL Industries	A981004-1-3	NA	034073A	1999	Replacement ①	Y
½" Piping	Bechtel	NA	NA	SPHBC93-1	1982	Replaced ①	Y
½" Piping	PP&L	NA	NA	SPHBC93-1	1999	Replacement ①	N

7. Description of Work: Replace Fuel Oil Day Tank level transmitters for 0T528A/C

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ ISLI per WA H80735 & WO 100471
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

Const. Code, Tufline Valves: ASME Section III, 1977 Edition, Summer 1978 Addenda, No Code Cases

Const. Code for BNL valves: ASME Section III, 1974 Edition, No Addenda, No Code Cases

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Replacement** conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration N/A

Signed Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 20, 20 00

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 2-4-99 to 5-5-00, 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.

Inspector's Signature Commissions NB 7525 IBNA PA 2159
National Board, State, Province, and Endorsements

Date JUNE 20 20 00

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 5/1/2000

Sheet 2 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: One

① DCP 97-9100C, WA C83285,
② DCP 97-3100E, WA C93026
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 024A – Diesel Generator and Auxiliary System ASME Class 3

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, No 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)
Valve	Tufline Xomox	89267L-10	NA	034072C	1979	Replaced ②	Y
Pipe Support	Bechtel	NA	NA	SPHBC95-H2000	1982	Replaced ②	N
Pipe Support	Bechtel	NA	NA	SPHBC95-H2001	1982	Replaced ②	N
Valve	Tufline Xomox	89267L-8	NA	034073C	1979	Replaced ②	Y
Valve	BNL Industries	A981004-1-1	NA	034073C	1999	Replacement ②	Y
½" Piping	Bechtel	NA	NA	SPHBC95-1	1982	Replaced ②	Y
½" Piping	PP&L	NA	NA	SPHBC95-1	1999	Replacement ②	N

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and certified by 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 (name and address)
4. Model No., Series No., or Type VALVE Drawing HBV-A2-06-0058 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 (edition) - (addenda date) 3 (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 3/4" (in.) Outlet size 3/4" (in.)
7. Material: Body SA-105 Bonnet SA-105 Disk SA-479 Ty316 Bolting SA-193 GrB7/SA-194 Gr2H

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A981004-1-(1THRU4)		N82	N82	L95

* Supplemental information in 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.

(12/88) 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. A981004-1-(1THRU4)

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 600# (1)
(pressure) (temperature)

9. Cold working pressure 10 psi at 100°F

10. Hydrostatic test 2225 psi. Disk differential test pressure 1630 psi

11. Remarks:

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/01

Date 06/17/99 Name BNL INDUSTRIES, INC. (N Certificate Holder) Signed _____ (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 06/17/99, 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 6/17/99 Signed _____ (Authorized Inspector) Commissions NB 9504 AI CT 1414
(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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 08/18/1999

Sheet 1 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: COMMON

DCP 96-9048: WA's C73282, C73283, C73377 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: Emergency Service Water System 054A 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Large Pipe Assembly	Bechtel	N/A	N/A	HRC-10-3	1982	Replaced	Yes
24" Large Pipe Assembly	PP&L	N/A	N/A	HRC-10-3	1999	Replacement	No
1" & ½" Small Pipe Assembly	PP&L	N/A	N/A	SPHCC10-1	1999	Replacement (New)	No
½" Ball Valve	BNL	A970404-1-3	N/A	011192A	1997	Replacement (New)	Yes
1" Check Valve	BW/IP	E077A-1-4	N/A	011193A	1997	Replacement (New)	Yes
1" Ball Valve	BNL	A970404-2-4	N/A	011194A	1997	Replacement (New)	Yes
Small Pipe Support	PP&L	N/A	N/A	SPHCC10-H1	1999	Replacement (New)	No

7. Description of Work: A 1" branch connection for biocide inj. system has been added to the 24" piping.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F NONE

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED
Applicable Manufacturer's Data Reports to be attached

Construction Code for BNL valves is ASME Section III, 1974 Edition No Addenda.

Construction Code for BW/IP valves is ASME Section III, 1989 Edition No Addenda.

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 20 ~~19~~ 2000

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 10-10-97 to 5-5-00, 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.

[signature] Inspector's Signature

Commissions NB 7525 IBNA PA 2159
National Board, State, Province, and Endorsements

Date _____ 19 _____

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 08/18/1999

Sheet 2 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: COMMON

DCP 96-9048: WA's C73282, C73283, 73377
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Emergency Service Water System 054A 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Large Pipe Assembly	Bechtel	N/A	N/A	HRC-5-3	1982	Replaced	Yes
24" Large Pipe Assembly	PP&L	N/A	N/A	HRC-5-3	1999	Replacement	No
1" & ½" Small Pipe Assembly	PP&L	N/A	N/A	SPHCC5-1	1999	Replacement (New)	No
½" Ball Valve	BNL	A970404-1-1	N/A	011192B	1997	Replacement (New)	Yes
1" Check Valve	BW/IP	E077A-1-1	N/A	011193B	1997	Replacement (New)	Yes
1" Ball Valve	BNL	A970404-2-1	N/A	011194B	1997	Replacement (New)	Yes
Small Pipe Support	PP&L	N/A	N/A	SPHCC5-H1	1999	Replacement (New)	No

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and certified by 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 (name and address)
4. Model No., Series No., or Type VALVE Drawing HBV-A2-10-0040 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 (edition) - (addenda date) 3 (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 1" (in.) Outlet size 1" (in.)
7. Material: Body SA-479 TY316 Bonnet SA-479 TY316 Disk SA-479 Ty316 Bolting SA-193GrB8/SA-194GrB8B

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A970404-2-(1THRU4)		L30	H57	K158

* Supplemental information in 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.

FORM NPV-1 (Back — Pg. 2 of 2)

Certificate Holder's Serial No. A970404-2-(1THRU4)

8. Design conditions _____ psi _____ °F or valve pressure class ANSI 300# (1)
(pressure) (temperature)

9. Cold working pressure 171PSIG @ 97F psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 08/27/97 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 CONNECTICUT and employed by COMMERCIAL UNION INS. of BOSTON, MASS have inspected the pump, or valve, described in this Data Report on 08/27/97, 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 8-27-97 Signed [signature] (Authorized Inspector) Commissions CT 1343 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(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

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
(name and address)
4. Model No., Series No., or Type VALVE Drawing HBV-A2-04-0040 Rev. 0 CRN
5. ASME Code, Section III, Division 1: 1974 / (edition) - / (addenda date) 3 / (class) (Code Case no.)
6. Pump or valve VALVE Nominal inlet size 1/2" (in.) Outlet size 1/2" (in.)
7. Material: Body SA-479 TY316 / Bonnet SA-479 TY316 / Disk SA-479 Ty316 / Bolting SA-193GrB8/SA-194Gr8B /

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
A970404-1-(1THRU2) /		K158	K159	K161
A970404-1-(3THRU4) /		K158	L30	K161

* Supplemental information in 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.

(12/88) 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. A970404-1-(1THRU4)

8. Design conditions _____ psi (pressure) _____ °F (temperature) or valve pressure class ANSI 300# (1)

9. Cold working pressure 171PSIG @ 97F psi at 100°F

10. Hydrostatic test 1125 psi. Disk differential test pressure 825 psi

11. Remarks: _____

CERTIFICATION OF DESIGN

Design Specification certified by J.G. SHELLENBERGER P.E. State PA Reg. no. 19551-E

Design Report certified by _____ P.E. State _____ Reg. no. _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2882 Expires 11/10/98

Date 00/14/97 Name BNL INDUSTRIES, INC. (N Certificate Holder) Signed _____ (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 08/14/97, 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 8-14-97 Signed _____ (authorized inspector) Commissions CT1343 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

(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

1. Manufactured and certified by BW/IP International, Inc. Valve Division, 701 First Street, Williamsport, PA 17701
   (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 or Owner)
3. Location of installation Susquehanna Station, PO Box 467, Berwick, PA 18603
   (name and address)
4. Model No., Series No., or Type Check Drawing W9724906 Rev. A CRN --
5. ASME Code, Section III, Division 1: 1989 / (edition) -- / (addenda date) 3 / (class) N/A (Code Case no.)
6. Pump or valve Valve Nominal inlet size 1 (in.) Outlet size 1 (in.)
7. Material: Body SA182-F316L / Bonnet -- Disk SA479-316 / Bolting --

(a) Cert. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Bonnet Serial No.	(e) Disk Serial No.
E077A-1-1 /	N/A	HT#-8656292	N/A	HT#-709542
E077A-1-2 /	N/A	HT#-8656292	N/A	HT#-709542
E077A-1-3 /	N/A	HT#-8656292	N/A	HT#-709542
E077A-1-4 /	N/A	HT#-8656292	N/A	HT#-709542

* Supplemental information in 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.

(12/88) 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"-300# Durabla Silent Check Valve

BW/IP SO# E077A-1

9. Design conditions 600 (pressure) psi 100 (temperature) °F or valve pressure class 300# (1)

10. Cold working pressure 600 psi at 100°F

11. Hydrostatic test 900 psi. Disk differential test pressure 660 psi

CERTIFICATION OF DESIGN

Design Specification certified by Dale Sattar P.E. State PA Reg. no. 019525E

Design Report certified by N/A P.E. State -- Reg. no. --

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/98

Date 9/23/97 Name BW/IP International, Inc. Valve Division (N Certificate Holder) Signed R. Stannett (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 ~~MORNINGS~~ of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 5-22 to 9-26, 19 97, 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 9-26-97 Signed Charles Young (Authorized Inspector) Commissions Pennsylvania 2392 (Nat'l. Bd. (incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) G00-144-004 (Form R No.)

Route 11, Salem Township, 5 miles Northeast of Berwick, Berwick PA 18603 (address) 188319 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc (name)

Two North Ninth Street, Allentown, PA 18101-1179 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, PA 18603 (address)

4. Unit identification PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer Mohawk Manufacturing

5. Identifying nos.: F-7190-6 (mfg serial no.) NB 9437 (National Board No.) PA 554050 (jurisdiction no.) 1F-135D (other) 1997 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1999 (addenda)

Original Code of Construction for Item: ASME Section VIII, Div 1 (name/section/division) 1995 Edition / 1996 Addenda (edition/addenda)

Construction Code Used for Repair Performed: ASME Section VIII, Div 1 (name/section/division) 1995 Ed. / 1996 Addenda (edition/addenda)

7. Description of work: Remove / Re-install tack weld between tube sheet and rod nut to allow for temporary (use supplemental sheet, Form R-4, if necessary) removal of bottom grid support rod. Tack weld is for anti-rotation purposes only.

Pressure Test, if applied N/A psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

NONE

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: "ROUTINE REPAIR"

CERTIFICATE OF COMPLIANCE

I, EDWARD B GORLACH, 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 **03-Nov-2002**

Date 5/31, 2000 PPL Corp (name of repair organization) Signed [signature] (authorized representative)

CERTIFICATE OF INSPECTION

I, DAVID DANLLARY, 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 MAY 5, 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 20, 2000 Signed [signature] (inspector) Commissions NB 7525A PA 2159 (National Board (incl endorsements),

FORM R-1 REPORT OF WELDED REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by PP&L, Inc. (name of repair organization) — G00-144-001 (Form R No.)

Route 11, Salem Twonship, 5 miles Northeast of Berwick, Berwick PA 18603 (address) — 188324 (P.O. No., Job No. etc.)

2. Owner PP&L, Inc (name)

Two North Ninth Street, Allentown, PA 18101-1179 (address)

3. Location of installation Susquehanna Steam Electric Station (name)

P.O. Box 467, Berwick, PA 18603 (address)

4. Unit identification PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer Mohawk Manufacturing

5. Identifying nos.: F-7190-3 (mfg serial no.) NB 9434 (National Board No.) PA 554049 (jurisdiction no.) 1F-135E (other) 1997 (year built)

6. NBIC Edition/Addenda: 1998 (edition) 1998 (addenda)

Original Code of Construction for Item: ASME Section VIII, Div 1 (name/section/division) 1995 Edition / No Addenda (edition/addenda)

Construction Code Used for Repair Performed: ASME Section VIII, Div 1 (name/section/division) 1998 Ed. / 1999 Addenda (edition/addenda)

7. Description of work: Mechanical replacement of existing tube sheet assembly HT # M7357, Serial # F-7190-3, (use supplemental sheet, Form R-4, if necessary)
With new spare tube sheet assembly HT # D81463A, Serial # 148110, National Board 7644

Pressure Test, if applied 1120 psi

8. Replacement Parts: Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:

Tube Sheet Serial # 148110, NB 7644, by USF Filtration and Separations Group, Inc. Form U-2

(name of part, item number, data report type, mfr's name and identifying stamp)

9. Remarks: Also replaced vessel head stud bolts, SA-193, Gr. B7, Longer studs were required to implement use Of new bolt tensioning tool.

Hydrostatic Test was performed by TP-144-032 on 21-Jan-2000. Test Pressure was 1120 psig @ 95 °F

CERTIFICATE OF COMPLIANCE

I, EDWARD B GERLACH, 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 **03-Nov-2002**

Date 2/3, 2000 PP+L Inc (name of repair organization) Signed E B Gerlach (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 RI have inspected the work described in this report on 1-21, 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 2-3, 2000 Signed William R. Rogers III Commissions NB7980A PA2204

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT
A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer JOB# 145206
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by USF FILRATION AND SEPARATIONS GROUP INC., 5 WEST AYLESBURY ROAD, TIMONIUM, MARYLAND 21093 USA
(Name and address of Manufacturer)

2. Manufactured for PENNSYLVANIA POWER AND LIGHT, U.S. ROUTE 11, SUSQUEHANNA, PA 18603
(Name and address of Purchaser)

3. Location of installation UNKNOWN
(Name and address)

4. Type: TUBESHEET (Description of vessel part (shell, two-piece head, tube bundle)) | 148110 (Mfg's. serial No.) | (CRN)

7644 (Nat'l. Bd. No.) | 96C-0066 (Drawing No.) | USF FILTRATION AND SEPARATIONS GROUP INC. (Drawing prepared by) | 2000 (Year built)

5. ASME Code, Section VIII, Div. 1 1998 EDITION, 1999 ADDENDA (Edition and Addenda (date)) | Code Case No. | Special Service per UG-120(d)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell (a) No. of course(s): --- (b) Overall length (ft & in.): ---

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time

7. Heads: (a) --- (Mat'l. Spec. No., Grade or Type) H.T. – Time & Temp. (b) --- (Mat'l. Spec. No., Grade or Type) H.T. – Time & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(b)														

If removable, bolts used (describe other fastening) --- (Mat'l. Spec. No., Grade, size, No.)

8. Type of jacket --- Jacket closure --- (Describe as ogee & weld, bar, etc.)

If bar, give dimensions --- If bolted, describe or sketch.

9. MAWP --- (internal) --- (external) psi at max. temp. --- (internal) --- (external) °F Min. design metal temp. --- °F at --- psi.

10. Impact test --- (Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. --- Proof test ---

Items 12 and 13 to be completed for tube sections.

12. Tubesheet: SA240T304 (Stationary (Mat'l Spec. No.)) | 64" (Dia., in. (subject to press.)) | 1.95" (Nom. thk., in.) | 0 (Corr. Allow., in.) | BOLTED (Attachment (welded or bolted))

--- (Floating (Mat'l. Spec. No.)) | --- (Dia., in.) | --- (Nom. thk., in.) | --- (Corr. Allow., in.) | --- (Attachment)

13. Tubes: --- (Mat'l. Spec. No., Grade or Type) | --- (O.D., in.) | --- (Nom. thk., in. or gauge) | --- (Number) | --- (Type (Straight or U))

Items 14-18 incl. To be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s) --- (b) Overall length (ft & in.): ---

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time

FORM U-2 (Back)

15. Heads: (a) --- (Mat'l. Spec. No., Grade or Type) H.T. - Time & Temp. (b) --- (Mat'l. Spec. No., Grade or Type) H.T. - Time & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)														
(b)														

If removable, bolts used (describe other fastening) --- (Mat'l. Spec. No., Grade, size, No.)

16. MAWP --- (internal) --- (external) psi at max. temp. --- (internal) --- (external) °F. Min. design metal temp. --- °F at --- psi.

17. Impact test --- (Indicate *yes* or *no* and the component(s) impact tested)

18. Hydro., pneu., or comb. test press. --- Proof test ---

19. Nozzles, inspection, and safety valve openings:

Purpose (Inlet Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
DRAIN	1	3/4" NPT	---	SA[illegible]304	---	---	---	INHERENT	INTEGRAL	---	---

20. Supports: Skirt --- (Yes or no) Lugs --- (No.) Legs --- (No.) Others --- (Describe) Attached --- (Where and how)

21. Remarks: BACKFLUSH CAGE ASSEMBLY

CERTIFICATE OF SHOP / FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

U Certificate of Authorization No. 7834 Expires MARCH 31, 2001

Date 1-13-00 Name USF FILTRATION AND SEPARATIONS GROUP INC. (Manufacturer) Signed [illegible] (Representative)

CERTIFICATE OF SHOP / FIELD 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 MARYLAND and employed by FACTORY MUTUAL INSURANCE COMPANY OF JOHNSTON, RI of JOHNSTON, RI have inspected the pressure vessel part described in this Manufacturer's Data Report on 1-13-00, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel part 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 1-13-2000 Signed [illegible] (Authorized Inspector) Commissions FACTORY MUTUAL INSURANCE COMPANY OF JOHNSTON, RI 9839A MA0797 PA2510 (Nat'l. Board incl. endorsement, State, Province and No.)

STAINLESS STEEL PLATE AND PLATE PRODUCTS
TOOL AND DIE STEELS
THE COUNTRY'S MOST COMPLETE CUTTING SERVICE ORGANIZATION

ONE SANDMEYER LANE • PHILADELPHIA, PA 19116-3598 • 215-464-7100 • 800-523-3663 • FAX: 215-677-1430

BILL TO

DIVERSIFIED MACHINING INC
P. O. BOX 180
FOREST HILL, MD 21051

CERTIFICATE OF TEST

WE CERTIFY THAT THE CHEMICAL ANALYSIS AND MECHANICAL TEST RESULTS APPEARING IN THIS CERTIFICATE ARE CORRECT AND TRUE AS CONTAINED IN THE RECORDS OF THE COMPANY

SANDMEYER STEEL COMPANY

E. GARDOSH - MANAGER, QUALITY ASSURANCE
QUALITY CONTROL DEPARTMENT

CUSTOMER ORDER NO. 11422

DATE: 12/22/99

GRADE: UNS S30400 | SPECIFICATION: ASME SA-240 | HEAT NO.: D81463A

PIECES	DESCRIPTION
	SSC TYPE 304 PLATE
1	1.95" THK PER DRAWING 96-C-0064 REV B MACHINED ALL OVER

HEAT NO.	C	Mn	P	S	Si	Ni	Cr	N
D81463A	0.049	1.340	0.025	0.025	0.410	8.110	18.190	0.060

HEAT NO.	Yield *	Tensile *	Elong	Hardness		
D81463A	43,300	87,900	57% IN 2"	RB 83		

* LBS/IN2

MATERIAL SOLUTION ANNEALED AT 1900 DEGREES F MINIMUM AND WATER QUENCHED OR RAPIDLY COOLED BY AIR

RECORDS OF ALL TESTS ARE MAINTAINED AT SANDMEYER STEEL COMPANY

Allied Group

Allied Nut & Bolt Co., Inc.
520 Hertzog Blvd.,
PO BOX 60670
King of Prussia, PA 19406

Allied Precision Machine Co., Inc.
PHONE (610) 275-2200
800-ALLIED-3
FAX (610) 275-4197
Web Site: www.allied-grp.com

CERTIFIED MATERIAL TEST REPORT AND C OF C

CUSTOMER: PENNA. POWER & LIGHT DATE: November 24, 1999

CUSTOMER P.O. No: 9-15280-1

QUANTITY SHIPPED: 255 ALLIED INVOICE No: 98326

ITEM DESCRIPTION: 2 1/4 -8UN2A X 22 3/4" FULL THREAD STUDS ASME SA193 GRADE B7.

HEAT NUMBER: 8968740

CHEMISTRY:

C	Mn	P	S	Si	CR	Mo	
.41	.96	.013	.040	.23	1.03	.21	

MECHANICAL PROPERTIES: HEAT TREAT MIN. TEMPERING TEMP. 1100 DEG. F.

ULTIMATE TENSILE, PSI	YIELD STRENGTH, PSI	ELONGATION IN 4 D's, %	REDUCTION OF AREA
126,900	106,200	21.30	59.10

WE CERTIFY THAT THE CONTENTS OF THIS REPORT ARE CORRECT AND THAT ALL TEST RESULTS AND OPERATIONS WERE IN COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND PURCHASE ORDER UNLESS OTHERWISE NOTED UNDER REMARKS.

ALLIED NUT & BOLT CO., INC., BY: James Muscarella
James Muscarella, Product Support

Q A DOCUMENT
REVIEWED
BY
DATE 11-24-99
ALLIED GROUP
SAL DELEO - Q C SUPV.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: July 15, 1999

Sheet 1 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: One

DCP's 97-3011A, B;WA's C73721, C73724 C73679, C73682; (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Feedwater System 145A, CL.1

5. (a) Applicable Construction Code: ASMEIII 19 71 Edition, thru W'72 Addenda, See Remarks Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve	Anchor Darling	E5820-2-1	N/A	HV14107A	1975	Repaired	YES
24" Check Valve	Anchor Darling	E5820-2A-1	N/A	HV14107B	1976	Repaired	YES
24" Check Valve Disc	Anchor Darling	E5820-2-1, Disc S/N R880	N/A	HV14107A	1975	Replaced	YES
24" Check Valve Disc	Anchor Darling	E5820-2A-1, Disc S/N R882	N/A	HV14107B	1976	Replaced	YES
24" Check Valve Disc	BWIP	E5820-2-1, Disc S/N 2	N/A	141818A	1998	Replacement	YES
24" Check Valve Disc	BWIP	E5820-2A-1, Disc S/N 1	N/A	141818B	1998	Replacement	YES
24" Check Valve Pipe Plug	PP & L	E5820-2-1	N/A	HV14107A, HT CD: AEM	1998	Replacement	NO

7. Description of Work: SEE REMARKS

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒
Other ☐ Pressure 1052 psi Test Temp. 169 °F SE-145-301

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks CODE DATA REPORT(S) ATTACHED
Applicable Manufacturer's Data Reports to be attached

Code Case 1334-2, 1516-1, 1534, 1535-2 For 24" Check Valve (DCP 97-3011A). Installed new Seat Rings by welding into existing Vlvs HV14107A/B, along with new Pipe Plug and valve internals. The valve identification was also changed for this DCP. HV14107A is now identified as 141818A and HV14107B is now identified as 141818B. Revised this form to reflect the condition identified on CR 92689 involving replaced material that is identified on page 2 & 3 of this report.

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration N/A

Signed [signature] Date 7-15, 19 99
Owner or Owner's Designee, Title Supv-Site Modifications Group

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of PENNSYLVANIA and employed by PROTECTION MUTUAL INSURANCE CO. * of NORWOOD, MASS have inspected the components described in this Owner's Report during the period APRIL 14 1998 to JUNE 5 1998, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

* Factory Mutual Engineering Association

[signature]
Inspector's Signature

Commissions NB 25257 & NA PA 2459
National Board, State, Province, and Endorsements

Date July 15, 19 99

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: July 15, 1999

Sheet 2 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: One

DCP's 97-3011A,B; WA's C73721, C73724, C73679, C73682; (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Feedwater System 145A, CL.1

5. (a) Applicable Construction Code: ASME III 19 71 Edition, thru W'72 Addenda, See Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve Indicator Stuffing Box	Anchor Darling	E5820-2-1, Stuffing Box HT# 40991	N/A	HV14107A	1975	Replaced	Yes
24" Check Valve Hinge Pin Cover	BWIP	E5820-2-1, Cover HT# B454	N/A	141818A	1998	Replacement	No
24" Check Valve Ind. Stuff Box Stud	Anchor Darling	E5820-2-1, Stuff Stud HT# 8096471	N/A	HV14107A	1975	Replaced	Yes
24" Check Valve Cover Stud	Anchor Darling	E5820-2-1, Cover Stud HT# Y9 (88147-GP)	N/A	141818A	1998	Replacement	No
24" Check Valve Ind. Stuff Box Nut	Anchor Darling	E5820-2-1, Stuff Nut HT# X44468	N/A	HV14107A	1975	Replaced	Yes
24" Check Valve Cover Nut	Anchor Darling	E5820-2-1, Cover Nut HT# F13 (NU243033)	N/A	141818A	1998	Replacement	No
24" Check Valve Indicator Stuffing Box	Anchor Darling	E5820-2A-1, Stuffing Box HT# 212442	N/A	HV14107B	1976	Replaced	Yes
24" Check Valve Hinge Pin Cover	BWIP	E5820-2A-1, Cover HT# B454	N/A	141818B	1998	Replacement	No
24" Check Valve Ind. Stuff Box Stud	Anchor Darling	E5820-2A-1, Stuff Stud HT# 8096471	N/A	HV14107B	1976	Replaced	Yes

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: July 15, 1999

Sheet 3 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: One

DCP's 97-3011A,B; WA's C73721, C73724, C73679, C73682; (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System: Feedwater System 145A, CL.1

5. (a) Applicable Construction Code: ASME III 19 71 Edition, thru W72 Addenda, See Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
24" Check Valve Cover Stud	Anchor Darling	E5820-2A-1, Cover Stud HT# Y9 (88147-GP)	N/A	141818B	1998	Replacement	No
24" Check Valve Ind. Stuff Box Nut	Anchor Darling	E5820-2A-1, Stuff Nut HT# X44468	N/A	HV14107B	1976	Replaced	Yes
24" Check Valve Cover Nut	Anchor Darling	E5820-2A-1, Cover Nut HT# F13 (NU243033)	N/A	141818B	1998	Replacement	No

Assigned to: ???? FOR INFORMATION ONLY Expires On: \??

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASME Code Rules, Section III, Div. 1

1. (a) Manufactured by BW/IP International, Inc. Valve Division, 701 First St., Williamsport, PA
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co., PO Box 25223, Lehigh Valley, PA 18002-5223
(Name and address of N Certificate Holder for completed nuclear component)

2. Identification-Certificate Holder's Serial No. of Part S/N 1 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C33407 Drawing Prepared by BW/IP Int'l, Valve Div.

(b) Description of Part Inspected Disc Heat #F8075 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date W72, Case No. -- Class 1

3. Remarks: 24" - 900# Swing Check
(Brief description of service for which component was designed)

BW/IP Shop Order No. E225A-1

NOTE: NO DISC HYDRO PERFORMED

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 2/26 19 98 Signed BW/IP International, Inc. Valve Division By R S Stannett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/98 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at

Stress analysis report on file at

Design specifications certified by Prof. Eng. State Reg. No.

Stress analysis report certified by Prof. Eng. State Reg. No.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State ~~or Province of~~ Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 12-31-97 to 2-26-98 19 , and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-26 19 98

Charles Young
Inspector's Signature

Commission Pennsylvania 2392
National Board, State, Province and No.

Charles Young

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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".

(10/77) This form (E00040) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASME Code Rules, Section III, Div. I

1. (a) Manufactured by BW/IP International, Inc. Valve Division, 701 First St., Williamsport, PA
(Name and address of NPT Certificate Holder)

(b) Manufactured for Pennsylvania Power & Light Co, PO Box 25223, Lehigh Valley, PA 18002-5223
(Name and address of N Certificate Holder for completed nuclear component)

2. Manufacturer-Certificate Holder's Serial No. of Part S/N 2 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No. C33407 Drawing Prepared by BW/IP Int'l, Valve Division

(b) Description of Part Inspected Disc Heat #F8075 SA105

(c) Applicable ASME Code: Section III, Edition 1971, Addenda date W72, Case No. -- Class 1

3. Remarks: 24" - 900# Swing Check
(Brief description of service for which component was designed)

BW/IP Shop Order No. E225A-1

NOTE: NO DISC HYDRO PERFORMED

We certify that the statements made in this report are correct and this vessel part or appurtenance as defined in the Code conforms to the rules of construction of the ASME Code Section III.
(The applicable Design Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certificate Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.)

Date 2/26 19 98 Signed BW/IP International, Inc. Valve Division By R S Hamnett
(NPT Certificate Holder)

Certificate of Authorization Expires 4/15/98 Certificate of Authorization No. N1713

CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)

Design information on file at

Stress analysis report on file at

Design specifications certified by Prof. Eng. State Reg. No.

Stress analysis report certified by Prof. Eng. State Reg. No.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the part of a pressure vessel described in this Partial Data Report on 12-31-97 thru 2-26-98 19 . and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Partial Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2-26 19 98

Charles Young Commissions Pennsylvania 2392
Inspector's Signature National Board, State, Province and No.

Charles Young

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8½" 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: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 4/26/2000

Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: 1

ECO 225259; PCWO 229000 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: EMERGENCY SERVICE WATER SYSTEM 154A, 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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHBC140-H2001	1982	Replaced	NO
SMALL PIPE SUPPORT	PP&L	N/A	N/A	SPHBC140-H2001	2000	Replacment	NO

7. Description of Work: Removed brace member 4"x4"x1/2" (Item #10) from pipe support SPHBC140-2001.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F N/A

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **replacement** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp

Certificate of Authorization No. Expiration

Signed Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date June 20, 20 00

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 5-5-00, 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.

Inspector's Signature

Commissions NB 7525 IBNA PA 2159
National Board, State, Province, and Endorsements

Date JUNE 20 20 00

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: May 31, 2000

Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: One

DCP 96-3001F
WO 190658
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: REACTOR VESSEL 162A, CLASS I

5. (a) Applicable Construction Code: III 19 68 Edition, thru S'70 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)
In-Core Monitor Housing	General Electric	Core Location 32-09	N/A	N/A	1977	REPAIRED	YES

7. Description of Work: Modify ICMH by EDM a ½" hole. Work performed by GE per ME-ORF-139

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

ASME Code Program Form No. G99-162-039

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **REPAIR** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 20, 2000

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 9-9-99 to 5-5-00, 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.

[illegible] Inspector's Signature

Commissions NB 7525 IBNA PA 2159
National Board, State, Province, and Endorsements

Date JUNE 20 2000

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 06/15/00

Sheet 1 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: One

MOD 99-9007, WOs 188741, 188749
G99-164-040, 041
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: Reactor Recirc – Water Loops and Jet Pumps – 164B Class 1

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)
Small Pipe Assembly	Bechtel	N/A	N/A	SPDCA151 –1	1982	Repaired	Yes
Small Pipe Assembly	Bechtel	N/A	N/A	SPDCA151 –1	1982	Replaced	Yes
Small Pipe Assembly	PP&L	N/A	N/A	SPDCA151 –1	2000	Replacement	No
Small Pipe Support	PP&L	N/A	N/A	SPDCA151-H2009	1993	Replaced (deleted)	No
¾" Bonnet Vent Valve	Borg Warner	19443	N/A	143F034B	1976	Replaced (deleted)	Yes
¾" Bonnet Vent Valve	Borg Warner	19418	N/A	143F035B	2000	Replaced (deleted)	Yes

7. Description of Work: Removed Valves143F034(5)A(B) and supports H2009 & H2011. Performed 2x1 fillet welds on some SPDCA151-2 welds.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair/replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [illegible] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 20, 20 00

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 9-23-99 to 5-5-00, 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.

[illegible] Commissions NB 7525 IBNA PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 20 20 00

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: June 15, 2000

Sheet 2 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: One

MOD 99-9007, WOs 188741, 188749
G99-164-040, 041
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: Pennsylvania Power & Light Co. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Indentification of System

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)
Small Pipe Assembly	Bechtel	N/A	N/A	SPDCA151 –2	1982	Repaired	Yes
Small Pipe Assembly	Bechtel	N/A	N/A	SPDCA151 –2	1982	Replaced	Yes
Small Pipe Assembly	PP&L	N/A	N/A	SPDCA151 –2	2000	Replacement	No
Small Pipe Support	PP&L	N/A	N/A	SPDCA151-H2011	1993	Replaced (deleted)	No
¾" Bonnet Vent Valve	Borg Warner	17769	N/A	143F034A	1976	Replaced (deletd)	Yes
¾" Bonnet Vent Valve	Borg Warner	19484	N/A	143F035A	1976	Replaced (deleted)	Yes

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name) — Date: 05/04/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: One

PO Box 467, Berwick, PA 18603 (Address) — MOD 99-9006, WOs 234744, 234750, 234754 G00-164-005, 006,007 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: Reactor Recirc – Water Loops and jet Pumps – 164B Class 1

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)
Small Pipe Support	Bechtel	N/A	N/A	SPDCA143 - H2011	1982	Replaced	No
Small Pipe Support	PP&L	N/A	N/A	SPDCA143-H2011	2000	Replacement	No
Small Pipe Support	Bechtel	N/A	N/A	SPDCA143-H14	2000	Repaired	No
Pipe Support	Bechtel	N/A	N/A	RWS100-H26	2000	Repaired	No
Small Pipe Assembly	Bechtel	N/A	N/A	SPDCA143-2	2000	Repaired	YES

7. Description of Work: Removed old H2011 snubber and welded new H2011 to RWS100-H26. Changed H14 to accommodate new H2011. Performed 2x1 fillet welds on some SPDCA143-2 welds.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N/A
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 N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair/replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 20, 2000

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 3-20-00 to 5-5-00, 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.

[signature] Inspector's Signature

Commissions NB 2525 IBNA PA 2159
National Board, State, Province, and Endorsements

Date JUNE 20 20 00

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 31-May-2000

Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: 1

Work Order # 198522 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 164BI Recirc Water Loops and Jet Pumps

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 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCA143-H2005	1982	REPAIR	NO

7. Description of Work: Addition by welding of temporary shielding permanent attachment lugs (DCP 99-9005)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 20, 20 00

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 9-2-99 to 5-5-00, 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.

[signature] Inspector's Signature

Commissions NB 7525 IBNA PA 2159
National Board, State, Province, and Endorsements

Date JUNE 20 20 00

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 31-May-2000

Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: 1

Work Order # 198522 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 164DII Recirc Pump Seals Water Injection System

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 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPDCB121-H6	1982	REPAIR	NO

7. Description of Work: Addition by welding of temporary shielding permanent attachment lugs (DCP 99-9005)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Repair** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title **Supv. - Site Modifications Group** Date June 20, 20 00

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 9-2-99 to 5-5-00, 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.

[signature] Commissions NB 7325 IBNA PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 20 20 00

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 31-May-2000

Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: 1

Work Order # 198543 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 173AII Containment Atomspheric Control

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 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
SMALL PIPE SUPPORT	BECHTEL	N/A	N/A	SPHCB138-H3	1982	REPAIR	NO

7. Description of Work: Addition by welding of temporary shielding permanent attachment lugs (DCP 99-9005)

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Repair** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date June 20, 2000

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 9-2-99 to 5-5-00, 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.

[signature] Inspector's Signature

Commissions NB 7525 IBNA PA 2159
National Board, State, Province, and Endorsements

Date June 20 2000

APPENDIX D.3

SNUBBER REPLACEMENT NIS-2 Forms

D.3 ISI SNUBBER REPLACEMENT NIS-2 SUMMARY

1.0 INTRODUCTION

This summary identifies the work performed on ASME Section XI Snubbers (Classes 1, 2 and 3 Safety Related Snubbers and parts for replacements for which ISI has NIS-2 responsibility). This work was performed during the Unit 1 11th Refueling and Inspection Outage.

2.0 CODE COMPLIANCE SUMMARY

All work on ASME Section XI items meet the requirements of IWA-7000 (Replacement) of ASME Section XI 1989 Edition, no Addenda.

3.0 REPLACEMENT SUMMARY

Work in this area consists of Work Orders for Section XI replacements of snubbers and parts.

3.A Summary of replacements for snubbers, by system, Work Order Number and Support Number (see Attachment 3.A).

3.B Summary of replacement of snubber parts by system, Work Order Number, Support Number, and Replaced Parts (See Attachment 3.B).

Attachment 3.A

SNUBBERS REPLACED

N-5 SUS.	WORK ORDER	SUPPORT IDENTIFICATION
149A-II	196949	SPGBB114H2001
152A-II	198362	DBB117H5
152A-II	107958	DBB120H21
161B-I	250728	DBA101H8
162A-I	198603	DBA105H4A
164B-I	247977	RWS100H40
164B-I	197361	SPDCA102H13A
164B-I	197361	SPDCA102H13B
164B-I	107981	SPDCA102H2001
183A-II	107919	DBB101H5A
183A-II	247575	DBB104H13A
183A-II	247575	DBB104H13B
183A-II	198596	DBB102H15
183F-I	107944	SPDCA127H2049
183F-I	107944	SPDCA128H2032

ATTACHMENT 3.B

REPLACEMENT OF SNUBBER PARTS

N-5 SUS.	WORK ORDER	SUPPORT IDENTIFICATION	REPLACED PARTS
151A-II	198183	GBB101H42	1 LOAD STUD, 2 HEAVY HEX NUTS
161B-I	100708	DBA101H46	1 LOAD STUD
162A-I	107976	MST 22H 12	1 LOAD STUD, 2 HEAVY HEX NUTS
162A-I	107938	MST 22H 42B	1 LOAD STUD, 2 HEAVY HEX NUTS, 1 PIVOT PIN
164B-I	107940	RWS 100H 42	1 PIVOT PIN
164B-I	107981	SPDCA102H 2001	1 PIVOT PIN
183A-II	198596	DBB 101H 12	2 PIVOT PINS
183A-II	107921	DBB 104H 7A	1 PIVOT PIN
183A-II	107921	DBB 104H 7B	1 PIVOT PIN
183A-II	247575	DBB104H 13A	1 PIVOT PIN
183A-II	247575	DBB104H 13B	1 PIVOT PIN
183A-II	247577	DBB105H2	1 PIVOT PIN

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name) — Date: 6/26/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — Maint/PCWO 196949 /CodeFormNo. I00149011 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 149A, CLASS II, RHR SYSTEM – POOL SPRAY, PUMPS & AUXILLIARY

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	16433	N/A	SPGBB114H2001	1980	REPLACED	NO
MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	28775	N/A	SPGBB114H2001	1982	REPLACEMENT	NO

7. Description of Work: REPLACED EXISTING SNUBBER WITH SAME SIZE,TESTED REPLACEMENT SNUBBER

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 N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Replacement** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 6, 20 00

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 3/18/00 to 5/5/00, 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.

[signature] Inspector's Signature

Commissions N B 7525 I B N A PA 2159
National Board, State, Province, and Endorsements

Date July 10, 2000

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 1 of 1

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO 198183 /CodeFormNo. I0015101
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 151A, Class II, Core Spray System

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 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1 LOAD STUD	GRINNELL	ITEM# 13 *(1)	N/A	GBB101H42	*(1)	REPLACED	NO
1 LOAD STUD	GRINNELL	ITEM# 13*(1)	N/A	GBB101H42	*(1)	REPLACEMENT	NO
2 HEAVY HEX NUTS	GRINNELL	ITEM# 14*(1)	N/A	GBB101H42	*(1)	REPLACED	NO
2 HEAVY HEX NUTS	GRINNELL	ITEM# 14*(1)	N/A	GBB101H42	*(1)	REPLACEMENT	NO

*NOTE (1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

7. Description of Work: Replace existing part with sufficient replacement part.

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 N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Replacement** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date July 6, 20 00

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 3/18/00 to 5/5/00, 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.

[signature] Commissions N B 7525 I B N A PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date July 10, 2000

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 1 of 2

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO /CodeFormNo.
SEE SHEET 2 OF 2
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 152-A, CLASS II, HPCI WATER LOOPS

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 1	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	08707	N/A	DBB117H5	1980	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	04577	N/A	DBB117H5	1978	REPLACEMENT	NO
Item 2	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	07533	N/A	DBB120H21	1980	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	14211	N/A	DBB120H21	1982	REPLACEMENT	NO

7. Description of Work: REPLACED EXISTING SNUBBER WITH SAME SIZE,TESTED REPLACEMENT SNUBBER

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None [X]
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 N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Replacement** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 6, 20 00

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 3/18/00 to 5/5/00, 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.

[signature] Inspector's Signature

Commissions N B 7525 I B N A PA 2159
National Board, State, Province, and Endorsements

Date July 10, 2000

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name) — Date: 6/26/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — Maint/PCWO /CodeFormNo. SEE BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 152A, CLASS II, HPCI WATER LOOPS

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK ORDER NO.	CODE REPAIR FORM NO.
1	198362	I00152012
2	107958	I00152005

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name) — Date: 6/26/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 1 of 2

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — Maint/PCWO /CodeFormNo. SEE SHEET 2 OF 2 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 161B, CLASS I, REACTOR WATER CLEANUP

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 1	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	03577	N/A	DBA101H8	1977	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	19474	N/A	DBA101H8	1981	REPLACEMENT	NO
Item 2	1 LOAD STUD	GRINNELL	ITEM# 13*(1)	N/A	DBA101H46	*(1)	REPLACED	NO
	1 LOAD STUD	GRINNEL	ITEM# 13*(1)	N/A	DBA101H46	*(1)	REPLACEMENT	NO

*NOTE (1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

7. Description of Work: REPLC'D EXISTING SNUB WITH SAME SIZE, TEST REPLCM'T SNUB/REPLC'D PART W/SUFFICIENT PART

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None [X]
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 N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Replacement** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Date July 6, 20 00

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 3/18/00 to 5/5/00, 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.

[signature] Commissions N B 7525 I B N A PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date July 10 2000

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name) — Date: 6/26/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 2 of 2

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — Maint/PCWO /CodeFormNo.: SEE BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 161B, CLASS I, REACTOR WATER CLEANUP

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK ORDER NO.	CODE REPAIR FORM NO.
1	250728	I00161022
2	100708	I00161010

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 1 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO /CodeFormNo.
SEE SHEET 3 OF 3
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 162A, CLASS I, REACTOR VESSEL

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 1	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	02815	N/A	DBA105H4A	1977	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	14418	N/A	DBA105H4A	1983	REPLACEMENT	NO
Item 2	1 LOAD STUD	GRINNELL	ITEM# 13*(1)	N/A	MST22H12	*(1)	REPLACED	NO
	1 LOAD STUD	GRINNELL	ITEM# 13*(1)	N/A	MST22H12	*(1)	REPLACEMENT	NO
Item 3	2 HEAVY HEX NUTS	GRINNELL	ITEM# 14 *(1)	N/A	MST22H12	*(1)	REPLACED	NO
	2 HEAVY HEX NUTS	GRINNELL	ITEM# 14*(1)	N/A	MST22H12	*(1)	REPLACEMENT	NO

*NOTE (1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

7. Description of Work: REPLC'D EXISTING SNUB. WITH SAME SIZE, TEST REPLACEMENT SNUB/REPL'D PART W/APPR'D PART

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None [X]
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 N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this Replacement (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 6, 20 00

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 3/18/00 to 5/5/00, 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.

[signature] Inspector's Signature

Commissions N B 7525 I B N A PA 2159
National Board, State, Province, and Endorsements

Date July 10, 2000

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 2 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO /CodeFormNo.
SEE SHEET 3 OF 3
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 162A, CLASS I, REACTOR VESSEL

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 4	1 LOAD STUD	GRINNELL	ITEM# 13 *(1)	N/A	MST-22-H42B	*(1)	REPLACED	NO
	1 LOAD STUD	GRINNELL	ITEM# 13 *(1)	N/A	MST-22-H42B	*(1)	REPLACEMENT	NO
Item 5	2 HEAVY HEX NUTS	GRINNELL	ITEM# 14 *(1)	N/A	MST-22-H42B	*(1)	REPLACED	NO
	2 HEAVY HEX NUTS	GRINNELL	ITEM# 14 *(1)	N/A	MST-22-H42B	*(1)	REPLACEMENT	NO
Item 6	1 PIVOT PIN	GRINNELL	ITEM# 6 *(1)	N/A	MST-22-H42B	*(1)	REPLACED	NO
	1 PIVOT PIN	GRINNELL	ITEM# 6 *(1)	N/A	MST-22-H42B	*(1)	REPLACEMENT	NO

NOTE*(1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 3 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO: SEE BELOW /CodeFormNo.
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: I62A. CLASS I, REACTOR VESSEL

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK ORDER NO.	CODE REPAIR FORM NO.
1	198603	I00162019
2	107976	I00162023
3	107976	I00162023
4	107938	I00162018
5	107938	I00162018
6	107938	I00162018

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 1 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO /CodeFormNo.
SEE SHEET 3 OF 3
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 164B, CLASS I, RECIRC-WATER LOOPS AND JET PUMPS

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 1	MECHANICAL ARRESTOR	PACIFIC SCIENTIFIC	03227	N/A	RWS100H40	1978	REPLACED	NO
	MECHANICAL ARRESTOR	PACIFIC SCIENTIFIC	03193	N/A	RWS100H40	1978	REPLACEMENT	NO
Item 2	MECHANICAL SHOCK ARRESTO	PACIFIC SCIENTIFIC	18549	N/A	SPDCA102H13A	1981	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	05008	N/A	SPDCA102H13A	1978	REPLACEMENT	NO
Item 3	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	18559	N/A	SPDCA102H13B	1981	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	18568	N/A	SPDCA102H13B	1981	REPLACEMENT	NO

7. Description of Work: REPLC'D EXISTING SNUB WITH SAME SIZE, TEST REPLCMNT SNUB/REPL'D PART W/SUFFICIENT PART

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 N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Replacement** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 6, 20 00

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 3/18/00 to 5/5/00, 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.

[signature] Commissions N B 7525 I B N A PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date July 10, 2000

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 2 of 3

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO /CodeFormNo.
SEE SHEET 3 OF 3
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 164B, CLASS I, RECIRC WATER LOOPS AND JET PUMPS

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 4	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	09941	N/A	SPDCA102H2001	1980	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	17245	N/A	SPDCA102H2001	1983	REPLACEMENT	NO
Item 5	1 PIVOT PIN	GRINNELL	ITEM# 6 *(1)	N/A	SPDCA102H2001	*(1)	REPLACED	NO
	1 PIVOT PIN	GRINNELL	ITEM# 6*(1)	N/A	SPDCA102H2001	*(1)	REPLACEMENT	NO
Item 6	1 PIVOT PIN	GRINNELL	ITEM# 6 *(1)	N/A	RWS100H42*	*(1)	REPLACED	NO
	1 PIVOT PIN	GRINNELL	ITEM# 6 *(1)	N/A	RWS100H42	*(1)	REPLACEMENT	NO

*NOTE (1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name) — Date: 6/26/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 3

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — Maint/PCWO /CodeFormNo. SEE BELOW (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 164B, CLASS I, RECIRC-WATER LOOPS AND JET PUMPS

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK ORDER NO.	CODE REPAIR FORM NO.
1	247977	I00164021
2	197361	I00164007
3	197361	I00164008
4	107981	I00164013
5	107981	I00164016
6	107940	I00164017

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 1 of 4

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO /CodeFormNo.
SEE SHEET 4 OF 4
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 183A, CLASS II, MAIN STEAM

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 1	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	00372	N/A	DBB101H5A	1977	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	14410	N/A	DBB101H5A	1983	REPLACEMENT	NO
Item 2	2 PIVOT PINS	GRINNELL	ITEM# 6*(1)	N/A	DBB101H12	*(1)	REPLACED	NO
	2 PIVOT PINS	GRINNELL	ITEM# 6*(1)	N/A	DBB101H12	*(1)	REPLACEMENT	NO
Item 3	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	00378	N/A	DBB102H15	1977	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	13409	N/A	DBB102H15	1982	REPLACEMENT	NO

*NOTE(1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

7. Description of Work: REPLC'D EXISTING SNUB WITH SAME SIZE, TEST REPLCMNT SNUB/REPLC'D PART W/ SUFFICIENT PART

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ None [X]
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 N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATION OF COMPLIANCE

We certify that the statements made in the report are correct and this **Replacement** (repair or replacement) conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [signature] Owner or Owner's Designee, Title Supv. - Site Modifications Group Date July 6, 20 00

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 3/18/00 to 5/5/00, 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.

[signature] Commissions N B 7525 I B N A PA 2159

Inspector's Signature National Board, State, Province, and Endorsements

Date July 10, 2000

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 2 of 4

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO /CodeFormNo.
SEE SHEET 4 OF 4
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol Stamp: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 183A, CLASS II, MAIN STEAM

5. (a) Applicable Construction Code: III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 4	1 PIVOT PIN	GRINNELL	ITEM# 6*(1)	N/A	DBB104H7A	*(1)	REPLACED	NO
	1 PIVOT PIN	GRINNELL	ITEM# 6*(1)	N/A	DBB104H7A	*(1)	REPLACEMENT	NO
Item 5	1 PIVOT PIN	GRINNELL	ITEM# 6*(1)	N/A	DBB104H7B	*(1)	REPLACED	NO
	1 PIVOT PIN	GRINNELL	ITEM# 6*(1)	N/A	DBB104H7B	*(1)	REPLACEMENT	NO
Item 6	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	01535	N/A	DBB104H13A	1978	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	01327	N/A	DBB104H13A	1978	REPLACEMENT	NO
Item 7	1 LOAD SENSOR PIN	GRINNELL	*(1)	N/A	DBB104H13A	*(1)	REPLACED	NO
	1 PIVOT PIN	GRINNELL	Item#6 *(1)	N/A	DBB104H13A	*(1)	REPLACEMENT	NO
Item 8	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	01532	N/A	DBB104H13B	1978	REPLACED	NO
	MECHANICAL SHOCK ARRESTOR	PACIFIC SCIENTIFIC	04111	N/A	DBB104H13B	1979	REPLACEMENT	NO

*NOTE(1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name) — Date: 6/26/00

Two North Ninth St., Allentown, PA 18101 (Address) — Sheet 3 of 4

2. Plant: Susquehanna Steam Electric Station (Name) — Unit: ONE

PO Box 467, Berwick, PA 18603 (Address) — Maint/PCWO /CodeFormNo. SEE SHEET 4 OF 4 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by: PP&L, Inc. (Name) — Type Code Symbol Stamp: None

Two North Ninth St., Allentown, PA 18101 (Address) — Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 183A, CLASS II, MAIN STEAM

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Item 9	1 LOAD SENSOR PIN	GRINNELL	*(1)	N/A	DBB104H13B	*(1)	REPLACED	NO
	1 PIVOT PIN	GRINNELL	ITEM# 6 *(1)	N/A	DBB104H13B	*(1)	REPLACEMENT	NO
Item 10	1 LOAD SENSOR PIN	GRINNELL	*(1)	N/A	DBB105H2	*(1)	REPLACED	NO
	1 PIVOTPIN	GRINNELL	ITEM# 6 *(1)	N/A	DBB105H2	*(1)	REPLACEMENT	NO

*NOTE(1): SERIAL/HEAT NUMBER AND YEAR BUILT NOT AVAILABLE.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Date: 6/26/00

Sheet 4 of 4

2. Plant: Susquehanna Steam Electric Station (Name)
PO Box 467, Berwick, PA 18603 (Address)

Unit: ONE

Maint/PCWO /CodeFormNo.
SEE BELOW
Repair Organization P.O. No., Job No., etc.

3. Work Performed by: PP&L, Inc. (Name)
Two North Ninth St., Allentown, PA 18101 (Address)

Type Code Symbol: None

Authorization No.: N/A

Expiration Date: N/A

4. Identification of System: 183A, CLASS II, MAIN STEAM

5. (a) Applicable Construction Code III 19 71 Edition, thru W'72 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89 No Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

ITEM(S)	WORK ORDER NO.	CODE REPAIR FORM NO.
1	107919	I00183004
2	198596	I00183009
3	198596	I00183006
4	107921	I00183002
5	107921	I00183003
6	247575	I00183024
7	247575	I00183026
8	247575	I00183025
9	247575	I00183027
10	247577	I00183020

APPENDIX E

EROSION/CORROSION SCOPE OF EXAMINATIONS

Unit One - 11th RIO - Erosion/Corrosion Exams

COMP_ID	DESCRIPTION	X-NUM	SYSTEM	DIAMETER	NOMINAL_WALL	MIN_WALL	MEAS_MIN	ERATE
1E103A-E1A	FW HTR SHELL	X-894	FWH	77	0.562	0.375	0.368	103.7
1E103A-E1B	FW HTR NOZZLE	X-894	FWH	26	0.625	0.417	0.315	149
1E103B-E1A	FW HTR SHELL	X-895	FWH	77	0.562	0.375	0.324	127.2
1E103B-E1B	FW HTR NOZZLE	X-895	FWH	26	0.625	0.417	0.3	156.2
1E103C-E1A	FW HTR SHELL	X-896	FWH	77	0.562	0.375	0.199	194.1
1E103C-E1B	FW HTR NOZZLE	X-896	FWH	26	0.625	0.417	0.318	147.5
1E104A-E1A	FW HTR SHELL	X-897	FWH	67	0.562	0.531	0.523	125.8
1E104A-E1B	FW HTR NOZZLE	X-897	FWH	16	0.5	0.481	0.467	273.6
1E104B-E1A	FW HTR SHELL	X-898	FWH	67	0.562	0.531	0.548	45.1
1E104B-E1B	FW HTR NOZZLE	X-898	FWH	16	0.5	0.481	0.464	189.4
1E104C-E1A	FW HTR SHELL	X-899	FWH	67	0.562	0.531	0.526	116.1
1E104C-E1B	FW HTR NOZZLE	X-899	FWH	16	0.5	0.481	0.491	47.4
1E105C-E1A	FW HTR SHELL	X-902	FWH	67	0.562	0.56	0.573	0
1E105C-E1B	FW HTR NOZZLE	X-902	FWH	16	0.5	0.479	0.494	28.6
1SCVL-E27	90 ELBOW	X-89	TS	1.5	0.2	0.133	0.194	8.9
1SLCIV-E19	ELBOW	X-98	TS	1.5	0.2	0.133	0.177	34.3
1SLCIV-E2	ELBOW	X-572	TS	1.5	0.2	0.133	0.198	2.9
2SLMSV-E22	ELBOW	X-86	TS	1	0.179	0.119	0.158	35
3SCVL-E14	BEND	X-91	TS	0.5	0.147	0.1	0.013	23.4

COMP_ID	DESCRIPTION	X-NUM	SYSTEM	DIAMETER	NOMINAL_WALL	MIN_WALL	MEAS_MIN	ERATE
3SCVL-E2	ELBOW	X-241	TS	0.5	0.147	0.1	0.136	23.4
DBD1013-E2	ELBOW	X-58	FW	18	1.375	1.049	1.267	33.1
DBD1015-E1	90 ELBOW	X-61	FW	18	1.375	1.049	1.292	25.4
DBD1041-E1	TEE B	X-53	FW	10	0.844	0.626	0.818	11.9
DBD1042-E1	TEE B	X-152	FW	10	0.844	0.626	0.795	22.5
DLA1021-E5	90 ELBOW	X-177	FW	12	0.688	0.459	0.587	44.1
DLA1041-E3A	TEE D	X-140A	FW	20	1.031	0.687	1.124	0
DLA1041-E3B	TEE D	X-140B	FW	12	0.688	0.459	0.621	29.3
EBD1142-E2	90 ELBOW	X-689	MSDRAIN	4	0.438	0.291	0.306	89.8
GAD1011-E2	VALVE	X-167	MSEPD	6	0.28	0.186	0.258	23.4
GAD1013-E1	TEE B	X-249	MSEPD	10	0.5	0.333	0.423	45.3
GAD1021-E1	TEE B	X-23	FW	12	0.375	0.25	0.368	5.6
GBD1021-E1	90 ELBOW	X-192	EXTST	4	0.237	0.158	0.219	22.8
GBD1021-E2	90 ELBOW	X-155	EXTST	4	0.237	0.158	0.176	77.2
GBD1022-E2	90 ELBOW	X-154	EXTST	4	0.237	0.158	0.172	82.3
GBD1023-E1	ELBOW	X-126	EXTST	4	0.237	0.158	0.221	20.5
GBD1023-E2	90 ELBOW	X-25	EXTST	4	0.237	0.158	0.208	36.7
GBD1032-E1A	EXPANDER	X-793	FWHD	8	0.322	0.215	0.257	60.7
GBD1032-E1B	EXPANDER	X-793	FWHD	6	0.28	0.186	0.276	4.3
GBD1074-E1	ELBOW	X-156	CDEM	16	0.656	0.437	0.612	20.1
GBD1091-E3A	EXPANDER	X-137A	COND	12	0.5	0.333	0.426	44.3

COMP_ID	DESCRIPTION	X-NUM	SYSTEM	DIAMETER	NOMINAL_WALL	MIN_WALL	MEAS_MIN	ERATE
GBD1091-E3B	EXPANDER	X-137B	COND	14	0.5	0.333	0.506	0
GBD1131-E1	ORIFICE	X-139	FW	16	0.656	0.437	0.601	25.1
GBD1131-E3	ORIFICE	X-46	FW	16	0.656	0.437	0.632	11
GBD1181-E2	90 ELBOW	X-147	FW	20	0.812	0.541	0.785	9.9
GBD1182-E1	90 ELBOW	X-150	FW	20	0.812	0.541	0.654	58.3
GBD1183-E1	90 ELBOW	X-151	FW	20	0.812	0.541	0.767	16.6
GBD1203-E1	90 ELBOW	X-149	FW	20	0.812	0.541	0.787	9.2
GBD1211-E2	ELBOW	X-63	FW	20	0.812	0.541	0.781	11.4
GFD1012-E3	ELBOW	X-9	EXTST	14	0.375	0.25	0.344	24.8
GFD1013-E2	PIPE	X-863	EXTST	16	0.375	0.25	0.369	4.8
GFD1014-E3	PIPE	X-864	EXTST	16	0.375	0.25	0.359	12.8
HAD1021-E2	TEE B	X-1	FW	14	0.375	0.328	0.369	12.8
HBD1061-E2	ORIFICE	X-85	TS	6	0.28	0.187	0.249	33.3
HBD1141-E2	ELBOW	X-34	FW	3	0.216	0.144	0.181	48.6
HBD1152-E1A	TEE A	X-686A	MS	4	0.237	0.157	0.209	35.4
HBD1152-E1B	TEE A	X-686B	MS	2	0.218	0.145	0.467	0
HBD1152-E2A	TEE A	X-687A	MS	4	0.237	0.157	0.156	102.5
HBD1152-E2B	TEE A	X-687B	MS	2	0.218	0.145	0.129	121.9
HBD1201-E3	ELBOW	X-909	FW	4	0.237	0.158	0.235	2.5
HBD1202-E1	ELBOW	X-303	FW	3	0.216	0.144	0.06	215
HBD1202-E3	ELBOW	X-905	FW	4	0.237	0.158	0.045	243

COMP_ID	DESCRIPTION	X-NUM	SYSTEM	DIAMETER	NOMINAL_WALL	MIN_WALL	MEAS_MIN	ERATE
HBD1202-E4	ELBOW	X-906	FW	4	0.237	0.158	0.082	196.2
HBD1203-E1	90 ELBOW	X-157	FW	3	0.216	0.144	0.205	15.3
HBD1203-E2	90 ELBOW	X-33	FWHV	4	0.237	0.158	0.216	26.5
HBD1203-E3	ELBOW	X-907	FW	4	0.237	0.158	0.205	40.5
HBD1613-E1	ELBOW	X-885	RFPT	6	0.28	0.187	0.232	51.6
HBD1662-E1	ELBOW	X-159	TS	8	0.322	0.215	0.282	37.4
HBD1961-E1A	TEE	X-884	SS	8	0.322	0.215	0.28	39.2
HBD1961-E1B	TEE	X-884	SS	4	0.237	0.158	0.217	25.3
SPDBA1082-E1	ELBOW	X-507	MS	2	0.344	0.229	0.315	25.2
SPE-E1	ELBOW	X-886	TS	18	0.375	0.25	0.342	26.4
SPEBD1111-E1A	REDUCER	X-131A	RFPT	1.5	0.4	0.267	0.49	0
SPEBD1111-E1B	REDUCER	X-131B	RFPT	1	0.358	0.239	0.34	15.1
SPEBD1112-E1	90 ELBOW	X-186	RFPT	1	0.358	0.239	0.341	14.2
SPEBD1112-E2	ORIFICE	X-185	RFPT	1	0.358	0.239	0.344	11.7
SPEBD1115-E1	90 ELBOW	X-184	RFPT	1	0.358	0.239	0.345	10.9
SPEBD1115-E2	ORIFICE	X-183	RFPT	1	0.358	0.239	0.034	13.4
SPEBD1143-E1	90 ELBOW	X-133	RCIC	1	0.358	0.239	0.296	51.6
SPGAD1382-E1	ELBOW	X-93	BPS	1	0.25	0.167	0.24	12
SPGAD1382-E2	ORIFICE	X-92	BPS	1	0.25	0.167	0.233	20.4
SPGAD1443-E12	ELBOW	X-124	TURB	2	0.344	0.229	0.319	21.74
SPGBD1041-E1	90 ELBOW	X-182	FW	3	0.3	2	0.281	19

COMP_ID	DESCRIPTION	X-NUM	SYSTEM	DIAMETER	NOMINAL_WALL	MIN_WALL	MEAS_MIN	ERATE
SPGBD1042-E1	90 BEND	X-181	FW	2	0.344	0.229	0.292	45.2
SPGBD1131-E1	ELBOW	X-883	FW	2	0.344	0.229	0.337	6
SPGBD1254-E1	VALVE	X-206	MCPR	1	0.25	0.167	0.185	98.8
SPGBD1259-E1	PIPE	X-881	SJAE	0.75	0.219	0.146	0.193	35.6
SPGBD1281-E1	ORIFICE	X-674	FW	2	0.344	0.229	0.31	29.5
SPGBD1282-E1	ORIFICE	X-676	FW	2	0.344	0.229	0.326	15.7
SPGBD1287-E1	ORIFICE	X-675	FW	2	0.344	0.229	0.326	15.6
SPGBD1339-E1	90ELBOW	X-210	RFPT	1	0.25	0.167	0.231	22.89
SPGBD1441-E1	ELBOW	X-121	TURB	2	0.344	0.229	0.313	26.9
SPGBD1442-E4	VALVE	X-120	TURB	1	0.25	0.167	0.224	31.2
SPGBD1521-E3	BEND	X-43	RFPT	1	0.25	0.167	0.219	37.35
SPGFD1026-E2	VALVE	X-106	RFPT	1.5	0.281	0.187	0.252	30.8
SPGFD1026-E3	ELBOW	X-879	EXT STM	1.5	0.281	0.187	0.251	31.9
SPHAD10731-E1	90 ELBOW	X-39	RFPT	2	0.218	0.145	0.201	23.2
SPHAD10731-E2	ELBOW	X-41	RFPT	2	0.218	0.145	0.203	20.5
SPHAD10731-E6A	TEE	X-880A	EXT STM	1.5	0.2	0.133	0.181	28.4
SPHAD10731-E6B	TEE	X-880B	EXT STM	1	0.179	0.119	0.266	0
SPHAD1523-E2	VALVE	X-112	TS	2	0.218	0.145	0.204	19.1
SPHBD10051-E1	ELBOW	X-161	TS	1	0.179	0.119	0.172	11.7
SPHBD10051-E2	ORIFICE	X-160	TS	1	0.179	0.119	0.169	16.6
SPHBD10721-E1	90 ELBOW	X-40	RFPT	2	0.218	0.145	0.192	35.6

COMP_ID	DESCRIPTION	X-NUM	SYSTEM	DIAMETER	NOMINAL_WALL	MIN_WALL	MEAS_MIN	ERATE
SPHBD1091-E1	90 ELBOW	X-204	EXTST	2	0.218	0.145	0.196	30.1
SPHBD1093-E3	ELBOW	X-30	EXTST	2	0.218	0.145	0.191	36.9
SPHBD1095-E1	90 ELBOW	X-202	EXTST	2	0.218	0.145	0.187	42.4
SPHBD1102-E2	VALVE	X-876	EXT STM	2	0.218	0.145	0.176	57.5
SPHBD1104-E1	ELBOW	X-476	EXTST	2	0.218	0.145	0.185	45.2
SPHBD1104-E2	90 ELBOW	X-198	EXTST	2	0.218	0.145	0.102	159
SPHBD1105-E2	90 ELBOW	X-28	EXTST	2	0.218	0.145	0.197	28.7
SPHBD1105-E3	BEND	X-874	EXT STM	2	0.218	0.145	0.169	67.1
SPHBD1108-E1	ELBOW	X-287	EXTST	2	0.218	0.145	0.199	26
SPHBD1151-E3	VALVE	X-453	MCPR	2	0.218	0.145	0.17	65.7
SPHBD1151-E4	ELBOW	X-163	MCPR	2	0.218	0.145	0.153	89
SPHBD1181-E2	ORIFICE	X-608	RFPT	1	0.179	0.119	0.168	18.3
SPHBD1185-E1	ORIFICE	X-611	RFPT	1	0.179	0.119	0.16	31.6
SPHBD1281-E1	ORIFICE	X-887	COND	2	0.218	0.145	0.207	15.1
SPHBD1481-E1	BEND	X-102	MCPR	1	0.179	0.119	0.159	33.33
SPHBD1483-E1	VALVE	X-100	MCPR	1	0.179	0.119	0.17	15
SPHBD1711-E1	VALVE	X-116	TS	1	0.179	0.119	0.161	30
SPHBD1713-E1	ORIFICE	X-115	TS	1	0.179	0.119	0.17	15
SPHBD302319-E1	90 ELBOW	X-632	AUX BLR	1	0.179	0.119	0.168	18.3
SPHBD30234-E2	BEND	X-637	AUX BLR	1.5	0.2	0.133	0.175	37.3
SPHBD30234-E3	90 ELBOW	X-638	AUX BLR	1.5	0.2	0.133	0.017	34.2

COMP_ID	DESCRIPTION	X-NUM	SYSTEM	DIAMETER	NOMINAL_WALL	MIN_WALL	MEAS_MIN	ERATE
SPHCD1041-E4	VALVE	X-622	CRD	1	0.133	0.089	0.123	22.7
SPHCD1041-E5	ELBOW	X-621	CRD	1	0.133	0.089	0.125	18.1
SSH-E2	VALVE	X-598	TS	8	0.322	0.215	0.299	21.4
VNBB212-E3A	ELBOW	X-462A	MS	26	1.138	0.893	1.368	0
VNBB212-E3B	PIPE	X-462B	MS	26	1.158	0.893	1.102	21.1

APPENDIX F

CONTAINMENT INSPECTIONS

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
Examination Category: E-A, Containment Surfaces										
E1.10 Containment Vessel Pressure Retaining Boundary										
E1.11 Accessible Surface Areas										
	Drywell Head									
E-A E1.11	Head and Flange	GV	794'		2A	1	1		**9911001**	NDE-VT 003 Rev 0
E-A E1.11	Manhole Hatch	GV			2A	1	1		**9911001**	NDE-VT 003 Rev 0
	Personnel Access Airlock (X-2)									
E-A E1.11	External Door	GV	724'	134°	3A, C, D, L	1	1		**9911002**	NDE-VT 003 Rev 0
E-A E1.11	Internal door	GV	724'	134°	3A, C, D, L	1	1		**9911002**	NDE-VT 003 Rev 0
E-A E1.11	External Bulkhead	GV			3C, H	1	1		**9911002**	NDE-VT 003 Rev 0
E-A E1.11	Internal Bulkhead	GV			3C	1	1		**9911002**	NDE-VT 003 Rev 0
E-A E1.11	Barrel Section	GV			3G	1	1		**9911002**	NDE-VT 003 Rev 0
	Equipment Hatch (X-1)									
E-A E1.11	Head and Flange	GV	724'	315°	4A. 4B	1	1		**9911038**	NDE-VT 003 Rev 0
E-A E1.11	Barrel Section	GV	724'	315°	4A. 4B	1	1		**9911003**	NDE-VT 003 Rev 0

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
Examination Category: E-A, Containment Surfaces										
E1.10 Containment Vessel Pressure Retaining Boundary										
E1.11 Accessible Surface Areas										
	Drywell - Exterior									
E-A E1.11	Drywell Exterior	GV	704' - 719'	0° to 90°	30	1	1	**9910A001**	**9911004**	NDE-VT [1] 003 Rev 0
E-A E1.11				90° to 180°	31	1	1	**9910A001**	**9911004**	NDE-VT [1] 003 Rev 0
E-A E1.11				180° to 270°	32	1	1	**9910A001**	**9911004**	NDE-VT [1] 003 Rev 0
E-A E1.11				270° to 360°	33	1	1	**9910A001**	**9911004**	NDE-VT [1] 003 Rev 0
E-A E1.11	Drywell Exterior	GV	719' - 749'	0° to 90°	34	1	1	**9910A002**	**9911005**	NDE-VT [1] 003 Rev 0
E-A E1.11				90° to 180°	35	1	1	**9910A002**	**9911005**	NDE-VT [1] 003 Rev 0
E-A E1.11				180° to 270°	36	1	1	**9910A002**	**9911005**	NDE-VT [1] 003 Rev 0
E-A E1.11				270° to 360°	36	1	1	**9910A002**	**9911005**	NDE-VT [1] 003 Rev 0
E-A E1.11	Drywell Exterior	GV	749' - 779'	0° to 90°	38	1	1		**9911006**	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	39	1	1		**9911006**	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	40	1	1		**9911006**	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	41	1	1		**9911006**	NDE-VT 003 Rev 0
E-A E1.11	Drywell Exterior	GV	779' - 791'	0° to 90°	42	1	1	**no access this area**	**no access this area**	
E-A E1.11				90° to 180°	43	1	1	**no access this area**	**no access this area**	
E-A E1.11				180° to 270°	44	1	1	**no access this area**	**no access this area**	
E-A E1.11				270° to 360°	45	1	1	**no access this area**	**no access this area**	

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
E-A E1.11	Drywell Exterior	GV	791' - 794'	0° to 90°	46	1	1		9911008	
E-A E1.11				90° to 180°	47	1	1		9911008	
E-A E1.11				180° to 270°	48	1	1		9911008	
E-A E1.11				270° to 360°	49	1	1		9911008	
Examination Category: E-A, Containment Surfaces										
E1.10 Containment Vessel Pressure Retaining Boundary										
E1.11 Accessible Surface Areas										
	Drywell - Interior									
E-A E1.11	Drywell Interior	GV	704' - 719'	0° to 90°	50	1	1		9911009	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	51	1	1		9911009	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	52	1	1		9911009	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	52	1	1		9911009	NDE-VT 003 Rev 0
E-A E1.11				0° to 90°	54	1	1		9911010	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	55	1	1		9911010	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	56	1	1		9911010	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	56	1	1		9911010	NDE-VT 003 Rev 0
E-A E1.11	Drywell Interior	GV	738' - 752'	0° to 90°	58	1	1		9911011	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	59	1	1		9911011	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	60	1	1		9911011	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	61	1	1		9911011	NDE-VT 003 Rev 0

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
E-A E1.11	Drywell Interior	GV	752' - 767'	0° to 90°	62	1	1		**9911012**	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	63	1	1		**9911012**	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	65	1	1		**9911012**	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	65	1	1		**9911012**	NDE-VT 003 Rev 0
E-A E1.11	Drywell Interior	GV	767' - 779'	0° to 90°	66	1	1		**9911013**	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	67	1	1		**9911013**	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	68	1	1		**9911013**	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	69	1	1		**9911013**	NDE-VT 003 Rev 0
E-A E1.11	Drywell Interior	GV	779' - 791'	0° to 90°	70	1	1		**9911014**	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	71	1	1		**9911014**	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	72	1	1		**9911014**	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	73	1	1		**9911014**	NDE-VT 003 Rev 0
E-A E1.11	Drywell Interior	GV	791' - 794'	0° to 90°	74	1	1		**9911015**	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	75	1	1		**9911015**	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	76	1	1		**9911015**	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	77	1	1		**9911015**	NDE-VT 003 Rev 0

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
Examination Category: E-A, Containment Surfaces										
E1.10 Containment Vessel Pressure Retaining Boundary										
E1.11 Accessible Surface Areas										
	Drywell Floor/Diaphragm Slab - Upper Surface									
E-A E1.11	Drywell Floor Diaphragm Slab Upper Surface	GV	704'	0° to 90°		1	1		**9911016**	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°		1	1		**9911017**	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°		1	1		**9911018**	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°		1	1		**9911019**	NDE-VT 003 Rev 0
E-A E1.11				Under RPV		1	1		**9911020**	NDE-VT 003 Rev 0
	Suppression Chamber - Exterior									
E-A E1.11	Suppression Chamber Exterior	GV	645' - 670'	0° to 90°	88	1	1	**910A004**		NDE-VT [1] 003 Rev 0
E-A E1.11				90° to 180°	89	1	1	**910A004**		NDE-VT [1] 003 Rev 0
E-A E1.11				180° to 270°	90	1	1	**910A004**		NDE-VT [1] 003 Rev 0
E-A E1.11				270° to 360°	91	1	1	**910A004**		NDE-VT [1] 003 Rev 0
E-A E1.11	Suppression Chamber Exterior	GV	670' - 683'	0° to 90°	92	1	1	**9910A005**		NDE-VT [1] 003 Rev 0
E-A E1.11				90° to 180°	93	1	1	**9910A005**		NDE-VT [1] 003 Rev 0
E-A E1.11				180° to 270°	94	1	1	**9910A005**		NDE-VT [1] 003 Rev 0
E-A E1.11				270° to 360°	95	1	1	**9910A005**		NDE-VT [1] 003 Rev 0

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
E-A E1.11	Suppression Chamber Exterior	GV	683' - 704'	0° to 90°	96	1	1	9910A006	9911023	NDE-VT [1] 003 Rev 0
E-A E1.11				90° to 180°	97	1	1	9910A006	9911023	NDE-VT [1] 003 Rev 0
E-A E1.11				180° to 270°	98	1	1	9910A006	9911023	NDE-VT [1] 003 Rev 0
E-A E1.11				270° to 360°	99	1	1	9910A006	9911023	NDE-VT [1] 003 Rev 0

Examination Category: E-A, Containment Surfaces

E1.10 Containment Vessel Pressure Retaining Boundary

E1.11 Accessible Surface Areas

Suppression Chamber - Interior

Note: GV Examinations are not required below the water line (672')

E-A E1.11	Suppression Chamber Interior	GV	672' - 683'	0° to 90°	108	1	1		9911024	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	109	1	1		9911024	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	110	1	1		9911024	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	111	1	1		9911024	NDE-VT 003 Rev 0
E-A E1.11	Suppression Chamber Interior	GV	683' - 700'	0° to 90°	112	1	1		9911025	NDE-VT 003 Rev 0
E-A E1.11				90° to 180°	113	1	1		9911025	NDE-VT 003 Rev 0
E-A E1.11				180° to 270°	114	1	1		9911025	NDE-VT 003 Rev 0
E-A E1.11				270° to 360°	115	1	1		9911025	NDE-VT 003 Rev 0

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
Examination Category: E-G, Pressure Retaining Bolting										
E8.10 Bolted Connections										
	Drywell Head									
E-G E8.10	Head Flange Bolting	VT-1	794'		2A, 2B	1	1		**9911033**	NDE-VT 001 Rev1
E-G E8.10	Manhole Hatch (X-4) Bolting	VT-1	799'	45°	2A	1	1		**9911033**	NDE-VT 001 Rev1
	Equipment Hatch (X-1)									
E-G E8.10	Head Flange Bolting	VT-1	724'	315°	4A, 4B	1	1		**partial exam 9911037**	NDE-VT 001 Rev1
Examination Category: E-G, Pressure Retaining Bolting										
E8.10 Bolted Connections										
	Penetrations									
E-G E8.10	X-35A Bolting	VT-1	717'	50°	50, 9	1	1		**9911026**	NDE-VT 001 Rev1
E-G E8.10	X-35C Bolting	VT-1	717'	46°	50, 9	1	1		**9911026**	NDE-VT 001 Rev1
E-G E8.10	X-35D Bolting	VT-1	717'	44°	50, 9	1	1		**9911026**	NDE-VT 001 Rev1
E-G E8.10	X-35E Bolting	VT-1	717'	41°	50, 9	1	1		**9911026**	NDE-VT 001 Rev1
E-G E8.10	X-35F Bolting	VT-1	717'	39°	50, 9	1	1		**9911026**	NDE-VT 001 Rev1
E-G E8.10	X-100E Bolting	VT-1	711'	307°	33, 10	1	1		**no access, deferred**	NDE-VT 001 Rev1
E-G E8.10	X-100F Bolting	VT-1	711'	46°	30, 10	1	1		**no access, deferred**	NDE-VT 001 Rev1
E-G E8.10	X-103A Bolting	VT-1	706'	334°	33, 10	1	1		**no access, deferred**	NDE-VT 001 Rev1

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
E-G E8.10	X-103B Bolting	VT-1	711'	36°	30, 10	1	1		no access, deferred	NDE-VT 001 Rev1
E-G E8.10	X-104A Bolting	VT-1	706'	341°	33, 10	1	1		no access, deferred	NDE-VT 001 Rev1
E-G E8.10	X-104B Bolting	VT-1	711'	22°	30, 10	1	1		no access, deferred	NDE-VT 001 Rev1
E-G E8.10	X-104C Bolting	VT-1	711'	345°	33, 10	1	1		no access, deferred	NDE-VT 001 Rev1
E-G E8.10	X-104D Bolting	VT-1	711'	29°	30, 10	1	1		no access, deferred	NDE-VT 001 Rev1
Examination Category: L-A Concrete										
L1.11 Accessible Concrete Surfaces and Coated Areas										
	Drywell - Exterior									
L-A L1.11	Drywell Exterior Concrete Surface	VT-3C	704' - 719'	0° to 90°	30	1	1	**9910A007**	**9911034**	NDE-VT [1] 003 Rev 0
L-A L1.11				90° to 180°	31	1	1	**9910A007**	**9911034**	NDE-VT [1] 003 Rev 0
L-A L1.11				180° to 270°	32	1	1	**9910A007**	**9911034**	NDE-VT [1] 003 Rev 0
L-A L1.11				270° to 360°	33	1	1	**9910A007**	**9911034**	NDE-VT [1] 003 Rev 0
L-A L1.11	Drywell Exterior Concrete Surface	VT-3C	719' - 749'	0° to 90°	34	1	1	**9910A008**	**9911035**	NDE-VT [1] 003 Rev 0
L-A L1.11				90° to 180°	35	1	1	**9910A008**	**9911035**	NDE-VT [1] 003 Rev 0
L-A L1.11				180° to 270°	36	1	1	**9910A008**	**9911035**	NDE-VT [1] 003 Rev 0
L-A L1.11				270° to 360°	37	1	1	**9910A008**	**9911035**	NDE-VT [1] 003 Rev 0

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
L-A L1.11	Drywell Exterior Concrete Surface	VT-3C	749' - 779'	0° to 90°	38	1	1		9911036	NDE-VT 003 Rev 0
L-A L1.11				90° to 180°	39	1	1		9911036	NDE-VT 003 Rev 0
L-A L1.11				180° to 270°	40	1	1		9911036	NDE-VT 003 Rev 0
L-A L1.11				270° to 360°	41	1	1		9911036	NDE-VT 003 Rev 0
L-A L1.11	Drywell Exterior Concrete Surface	VT-3C	779' - 791'	0° to 90°	42	1	1	No Access this area	No Access this area	NDE-VT 003 Rev 0
L-A L1.11				90° to 180°	43	1	1	No Access this area	No Access this area	NDE-VT 003 Rev 0
L-A L1.11				180° to 270°	44	1	1	No Access this area	No Access this area	NDE-VT 003 Rev 0
L-A L1.11				270° to 360°	45	1	1	No Access this area	No Access this area	NDE-VT 003 Rev 0
	Suppression Chamber - Exterior									
L-A L1.11	Suppression Chamber Exterior Concrete Surface	VT-3C	645' - 670'	0° to 90°	88	1	1	9910A010		NDE-VT [1] 003 Rev 0
L-A L1.11				90° to 180°	89	1	1	9910A010		NDE-VT [1] 003 Rev 0
L-A L1.11				180° to 270°	90	1	1	9910A010		NDE-VT [1] 003 Rev 0
L-A L1.11				270° to 360°	91	1	1	9910A010		NDE-VT [1] 003 Rev 0
L-A L1.11	Suppression Chamber Exterior Concrete Surface	VT-3C	670' - 683'	0° to 90°	92	1	1	9910A011	9911031	NDE-VT [1] 003 Rev 0
L-A L1.11				90° to 180°	93	1	1	9910A011	9911031	NDE-VT [1] 003 Rev 0
L-A L1.11				180° to 270°	94	1	1	9910A011	9911031	NDE-VT [1] 003 Rev 0
L-A L1.11				270° to 360°	95	1	1	9910A011	9911031	NDE-VT [1] 003 Rev 0
L-A L1.11	Suppression Chamber Exterior Concrete Surface	VT-3C	683' - 704'	0° to 90°	96	1	1	9910A012	9911032	NDE-VT [1] 003 Rev 0

Containment Exams - IWE-IWL - Unit 1 - 11RIO and Post-10RIO

Item	Description	Exam Type	Exam Elev	Az.	Dwg. CISI-	Qty.	Sch.	Report Number Post-10 RIO	Report Number 11 RIO	Insp Procedure
L-A L1.11				90° to 180°	97	1	1	**9910A012**	**9911032**	NDE-VT [1] 003 Rev 0
L-A L1.11				180° to 270°	98	1	1	**9910A012**	**9911032**	NDE-VT [1] 003 Rev 0
L-A L1.11				270° to 360°	99	1	1	**9910A012**	**9911032**	NDE-VT [1] 003 Rev 0

[1] **Exams performed in 1999 (report 9910Axxx) were done under procedure NVT-3, Rev 3**

APPENDIX G
CORRECTIONS